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bigger - better - faster - wider

The brand new CIE-Group website is bigger and better than ever before; faster and easier to search through 1000's of products for the PA, AV, CCTV, electronics and test professional.



Full customer access to information on 1000's of products and ordering facilities **24 hours a day, 7 days a week, 365 days of the year**



Fully searchable product database with product comparison facility, alternative & related product suggestions.



Secure Trade Log in Zone for CIE-Group customers, providing customer buy prices and order history information.



Accurate customer-specific pricing (available in GBP, Euros and Dollars).



Per-product stock level information for ease of ordering.



Secure e-commerce facilities - customer ordering made easy; wherever and whenever you need it!





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Company Profile

CIE-Group is one of the industry's longest established providers. With a history of almost 50 years providing innovative, high quality, cost effective solutions, we have developed a diverse and comprehensive portfolio of products to meet the demands of the AV, commercial audio, CCTV, entertainment, communications and OEM business sectors.

Committed to providing industry with innovative and unsurpassed pre- and post-sales service, our products are used by many of the UK's leading audio visual installers, sound system providers and blue chip companies, as well as distribution, public/private sector and high street leading brands.

CIE-Group is an exclusive 'tier 1' distributor for many market leading professional brands. Key to our success has been the diversity and innovation of our continually-developing product range, combined with the valuable relationships we build with our manufacturers and customers.

This partnership ensures direct access to an expert UK and international team of sales, training and technical advisers to support our customers all the way from initial site surveys, to product demonstrations to on-site end-client product training and support.

More than just a distributor...

What makes CIE-Group different to other distributors and resellers?

Giving our customers all the support and advice they need to make the best professional, informed decisions on the products they specify without compromise.

From simply providing detailed product information, training and advice, to UK-based service & repair facilities, assisting customer site surveys & demonstrations, to 'ready to install' full rack system design and build services; CIE-Group pride ourselves on supporting our customers – and your end clients – in achieving the very best results from the full range of products and services we provide.





How to Order

Our Sales Office is open between the hours of **8.30am** and **5.30pm** five days a week to service your orders. Our Sales Team is waiting to provide information and support on our full product range, in addition to our extensive on-line product and technical database, should you require it. We can accept your orders by phone, fax, email, online or by post.

And now with our new e-commerce facility, ordering is available 24 hours a day, every day of the week at www.cie-group.com.



Tel: +44 (0)115 9770075



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Email: info@cie-group.com



www.cie-group.com



Mail to: CIE-Group Ltd Widdowson Close Blenheim Ind Est Bulwell Nottingham NG6 8WB UK



Methods of Payment:

- Credit Account (Contact the sales office for an application form)

- Credit or Debit Card (Most major cards accepted online or via telephone)

- Cheque with order (Clearance required before goods can be released)

- Bank Transfer



Delivery Options:

Standerd Delivery:

Orders recieved before 3.30pm - 1~2 working days (Registered Carrier) Orders recieved post 3.30pm - 2~3 working days (Registered Carrier) (Charges based on consignment weight)

Next Day Delivery/Next Day AM/Saturday delivery/International

The CIE-Group Sales Team will advise on a range of flexible options to meet your specific needs on delivery times, dates and costs.

Affiliates

Approvals and memberships to which CIE-Group has a long term affiliation.



CIE-Group is registered with the British Standards Institute's ISO9001:2008 Quality Assurance System,

which guarantees our customers the very highest quality levels in Distribution and Design & Installation Planning for commercial sound, AV, CCTV and electronics equipment.



A long-term member of PLASA - the Professional Lighting and Sound Association - the world's leading body for suppliers to the professional installation, events and entertainment technology industries.



An established member of BESA - the British Educational Suppliers Association - ensuring high quality, innovative products and services for the education sector.



A key Supporting Member of ISCE - The Institute of Sound and Communications Engineers - the UK's leading collective of professional commercial AV engineers, suppliers and designers.

Symbol Glossary

To highlight any technologies, connectivity or compliance relative to each product, you'll find a series of symbols at the top of each product page.

Please use the below key as an explanation of each symbol...



100v Line Audio System



Low Impedance Audio System



Channel 38 Compliant



Ingress Protection Rating



EN54 - Compliant for Fire Alarm Systems



Induction Loop Facility



RS232 Connectivity



RF Immunity



MP3 Audio File Player



I.P. Connectivity



HDMI - High Definition Multimedia Interface



DisplayPort



DVI - Digital Video



3D Ready



HD Ready



USB - Universal Serial Bus



Bluetooth Wireless Connectivity



At CYP we understand that time is of the essence for every installation. If an installer runs into connectivity issues on site, CYP have an extensive range of effective 'get out of jail' solutions to help

GET OUT OF JAIL USING THE ESSENTIAL CYP/// SOLUTIONS

Now available from CIE-Group - see pages 237~344 for details of the full range.





| Ceiling Speakers | 10 ~ 15 |
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interM



- CS-6: 6W Ceiling Speaker
- CS-20: 20W Ceiling Speaker

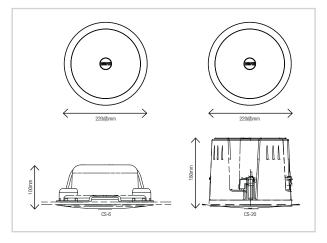
These high quality, fast-fit ceiling loudspeakers feature premium grade drivers for impressive acoustic performance and long-term

Ideal for paging and ambient background music applications such as offices, retail, waiting rooms, corridors, etc...

Features:

- Metal construction
- Fast-fix solution
- Simple unobtrusive design
- Premium grade speaker drivers
- CS-20 supplied with comprehensive hardware/rails as standard





| Model: | CS-6 | CS-20 |
|--------------------|---|--|
| Rated Power | 6W | 20W |
| Impedance | COM, 1.7kΩ, 4kΩ, 8kΩ 6W/1.7kΩ, 3.5W/4kΩ 1.75W/8kΩ | COM, $500\text{k}\Omega$, $1\text{k}\Omega$, $2\text{k}\Omega$ $20\text{W}/500\text{k}\Omega$, $10\text{W}/1\text{k}\Omega$ $5\text{W}/2\text{k}\Omega$ |
| Frequency Response | 150Hz ~ 15kHz | 150Hz ~ 15kHz |
| SPL @ 1W/1m | 92dB | 92dB |
| Dimensions | 220(Ø) x 100(D) mm | 230(Ø) x 180(D) mm |
| Weight | 0.7kg | 2kg |

II ic audio





DL06-165T/BS5839: 6W Ceiling Speaker

An all-round performer, the DL06-165T ceiling speaker is ideal for any paging and low ambient background music reproduction in many applications such as offices, retail, waiting rooms, corridors, etc.

Metal construction and high quality 100v transformer complete this installation-friendly ceiling speaker system.

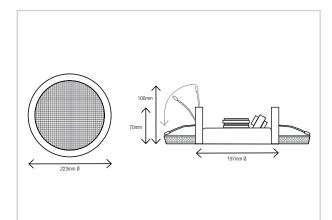
Also available as an EN54-compliant version for approved fire alarm systems.

Features:

- Metal construction
- White RAL9010
- Quick-fit mounting system
- High quality 100v transformer
- Full range 61/2" driver
- Optional steel backbox F165







Specifications:

| Model: | DL06-165T | DL06-165T/BS5839 |
|----------------------|--------------------|--------------------|
| 100v Power Tappings | 1.5, 3, 6W | 1.5, 3, 6W |
| Frequency Response | 100Hz ~ 16kHz | 100Hz ~ 16kHz |
| SPL@1W/1m | 97.9dB | 97.9dB |
| Ceramic Terminal | No | Yes |
| Thermal Fuse | No | Yes |
| Heat Resistant Cable | No | Yes |
| Colour | White RAL9010 | White RAL9010 |
| Material | Metal | Metal |
| Dimensions | 220(Ø) x 100(D) mm | 220(Ø) x 120(D) mm |
| Weight | 1.3kg | 1.3kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075





• CSL106T: 6W Ceiling Loudspeaker

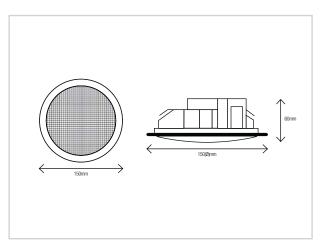
Built-in speaker with painted metal grille for voice and background music applications.

Features:

- Dual cone loudspeaker with 5" woofer
- Power 3, 6W with 100v transformer
- Hole for mounting 150mm
- White RAL9016







| Model: | CSL106T |
|--------------------|----------------------|
| Rated Power | 3, 6W |
| Loudspeaker | Dual cone, 5" woofer |
| Frequency Response | 100Hz ~ 20kHz |
| SPL @ 1W/1m | 93dB |
| Coulour | White RAL 9016 |
| Input Voltage | 100v |
| Dimensions | 150(Ø) x 60(D) mm |
| Cut-out Diameter | 150(Ø) mm |
| Weight | 0.5kg |







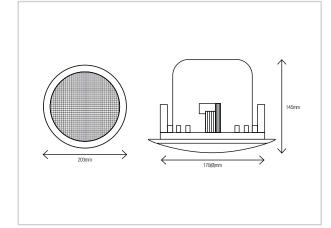
CSL520TIC: 20W Ceiling Loudspeaker

ABS in-ceiling speaker with metal protection grille for voice and background music applications.

Features:

- White RAL9016
- · Metal back cover
- Coaxial loudspeaker with 5" woofer and 1/2" tweeter
- 88dB ±3dB sensitivity @ 1W/1m
- Nominal power 2.5/5/10/20W/8 $\!\Omega$ with 100v line transformer
- Hole for mounting 170mm





| Model: | CSL520TIC |
|--------------------|---|
| Rated Power | 2.5, 5, 10, 20W/8Ω |
| Loudspeaker | Coaxial loudspeaker, 5" woofer, ½" tweeter |
| Frequency Response | 100Hz ~ 20kHz |
| SPL @ 1W/1m | 88dB |
| Colour | White RAL 9016 |
| Input Voltage | 100v |
| Dimensions | 203(Ø) x 145(D) mm |
| Cut-out Diameter | 170(Ø) mm |
| Weight | 1.8kg |





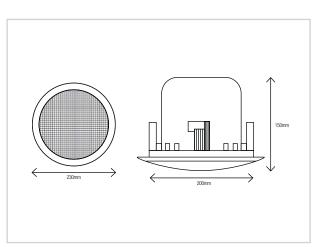


CSL630TIC: 30W Ceiling Loudspeaker

ABS in-ceiling speaker with metal protection grille.

Features:

- White RAL9016
- Metal back cover
- Coaxial loudspeaker with 6" woofer and 1/2" tweeter
- 88dB ±3dB sensitivity @ 1W/1m
- Nominal power 3.8/7.5/15/30W/8 $\!\Omega$ with 100/70v line transformer
- 90Hz ~ 20KHz Frequency Response
- Hole for mounting 200mm





Specifications:

| Model: | CSL630TIC | |
|-----------------------|--|--|
| Rated Power | 3.8, 7.5, 15, 30W/8Ω | |
| Loudspeaker | Coaxial loudspeaker, 6" woofer, ½" tweeter | |
| Frequency Response | 90Hz ~ 20kHz | |
| SPL @ 1W/1m | 88dB | |
| Colour White RAL 9016 | | |
| Input Voltage | 100v | |
| Dimensions | 230(Ø) x 150(D) mm | |
| Cut-out Diameter | 200(Ø) mm | |
| Weight | 2.3kg | |

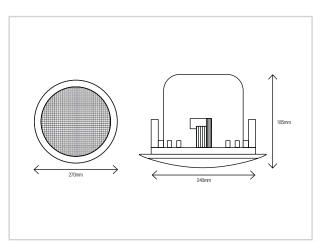
• CSL840TIC: 40W Ceiling Loudspeaker

ABS in-ceiling speaker with metal protection grille.

Features:

- White RAL9016
- · Metal back cover
- Full range 2.5" Dual Cone
- 87dB ±3dB sensitivity @ 1W/1m
- Nominal power 1.5/3/6W with 100v line transformer
- 120Hz ~ 20KHz Frequency Response
- Hole for mounting 240mm





| opcomodions. | | |
|--------------------|--|--|
| Model: | CSL840TIC | |
| Rated Power | 5, 10, 20, 40W/8Ω | |
| Loudspeaker | Coaxial loudspeaker, 6" woofer, ½" tweeter | |
| Frequency Response | 50Hz ~ 20kHz | |
| SPL @ 1W/1m | 88dB | |
| Colour | White RAL 9016 | |
| Input Voltage | 100v | |
| Dimensions | 270(Ø) x 185(D) mm | |
| Cut-out Diameter | 240(Ø) mm | |
| Weight | 3.1kg | |







MCSL006/TWP:

6W Moisture-Proof Ceiling Speaker

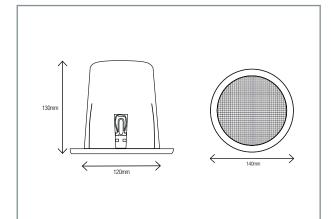
This IP55-approved unit is ideal for installation in damp, humid environments such as changing rooms, bathrooms or even outdoors in protected assess. in protected areas.

One-piece construction and quick-fit spring mounting system complete a versatile package.

Features:

- Water / ingress resistance (IP55 rated)
- One-piece construction
- White RAL 9016
- Multi-tapping 100v transformer
- Quick-fit mounting system





| Model: | MCSL006/TWP |
|---------------------|--------------------|
| 100v Power Tappings | 1.5, 3, 6W |
| Frequency Response | 150Hz ~ 18kHz |
| SPL @ 1W/1m | 91dB |
| Colour | White RAL 9016 |
| Material | ABS |
| Dimensions | 140(Ø) x 130(D) mm |
| Weight | 0.9kg |

interM



- CU420: 20W Indoor Column Speaker
- CU440: 40W Indoor Column Speaker

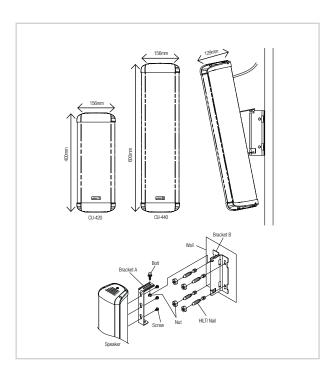
Inter-M's latest addition to their column speaker range, the new CU400 Series are stylish, high-quality loudspeakers featuring improved frequency response for both voice and music applications.

Ideal for church, mosque, high quality background music and AV

Features:

- Stylish new design
- Robust construction
- Multi-position mounting bracket
- 100v Power tappings (rated and ½ power)
- Screw terminal connection





| • | | |
|--------------------|-----------------------------|-----------------------------|
| Model: | CU420 | CU440 |
| Rated Power | 10, 20W | 20, 40W |
| Frequency Response | 180Hz ~ 14kHz | 180Hz ~ 14kHz |
| SPL @ 1W/1m | 94dB | 97dB |
| Dimensions | 156(W) x 400(H) x 129(D) mm | 156(W) x 600(H) x 129(D) mm |
| Weight | 3kg | 5kg |





- CU520: 20W Outdoor Column Loudspeaker
- CU540: 40W Outdoor Column Loudspeaker

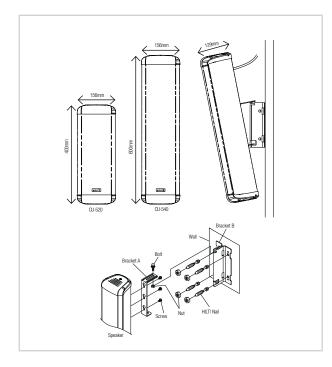
Stylish and robust loudspeakers for installation in both indoor and outdoor applications.

Manufactured from aluminium extrusion with a steel grille, the loudspeaker drivers are proofed to withstand damp environments and can be used in indoor or protected outdoor installations, in shopping centres, car parks, atriums and leisure centres.

Features:

- Proofed drivers / loudspeakers for use in damp environments
- Robust aluminium construction
- Multi-position mounting bracket
- 100v Power tappings (rated and ½ power)
- Screw terminal connection





| Model: | CU520 | CU540 |
|--------------------|-----------------------------|-----------------------------|
| Rated Power | 10, 20W | 20, 40W |
| Frequency Response | 180Hz ~ 14kHz | 180Hz ~ 14kHz |
| SPL @ 1W/1m | 94dB | 97dB |
| Dimensions | 156(W) x 400(H) x 129(D) mm | 156(W) x 600(H) x 129(D) mm |
| Weight | 3kg | 5kg |

interM



- CU920: 20W Indoor Column Loudspeaker
- CU930: 30W Indoor Column Loudspeaker
- CU940: 40W Indoor Column Loudspeaker

Attractive, slimline column loudspeakers for installation in church, conference and sports hall applications.

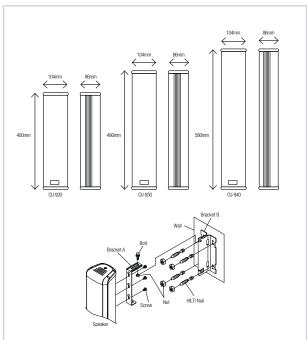
These models are also ideal for installation in audio visual applications, when placed either side of a projector screen or plasma/LCD

Finished in matt white, the units also feature perforated steel grille and are supplied with multi-position wall bracket.

Features:

- Attractive slimline design
- Multi-position bracket
- $\bullet~$ 100v Power tappings (rated and ½ power)
- Screw terminal connection





| Model: | CU920 | CU930 | CU940 |
|--------------------|----------------------------|----------------------------|----------------------------|
| Rated Power | 10, 20W | 15, 30W | 20, 40W |
| Frequency Response | 220Hz ~ 15kHz | 220Hz ~ 15kHz | 220Hz ~ 15kHz |
| SPL @ 1W/1m | 90dB | 91dB | 93dB |
| Enclosure Material | Aluminium | Aluminium | Aluminium |
| Dimensions | 104(W) x 400(H) x 86(D) mm | 104(W) x 490(H) x 86(D) mm | 104(W) x 580(H) x 86(D) mm |
| Weight | 2.35kg | 2.85kg | 3.35kg |





• B170T EN: 6W Suspended Ball Speaker

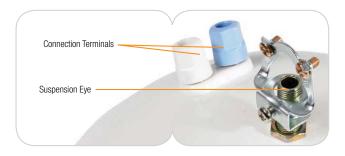
Compact, metal Suspended Ball Speaker ideal for retail, warehouse and open plan applications.

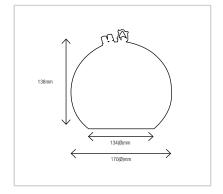
Termination is made by binding posts and tappings controlled via a screwdriver-adjustable switch. The product's two-way driver gives excellent voice and music reproduction.

Features:

- Compact size
- Binding post terminal connection
- Adjustable tapping selector
- Suspension eye
- White RAL9010
- Two-way, full-range driver
- 100v Power tappings







| Model: | B170T EN |
|---------------------|--------------------|
| 100v Power Tappings | 2, 4, 6W |
| Frequency Response | 100Hz ~ 15kHz |
| SPL @ 1W/1m | 89dB |
| Colour | White RAL 9010 |
| Material | Metal |
| Approx. Coverage | 45m² @ 3m height |
| Dimensions | 170(Ø) x 138(D) mm |
| Weight | 1.3kg |

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B250T EN: 15W Suspended Ball Speaker

The industry standard for the distribution and retail 'shed' sectors, the B250T EN offers excellent voice clarity and music reproduction.

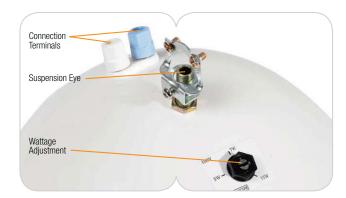
The unit features a 17cm bass unit with coaxial tweeter within a robust, yet lightweight ABS housing.

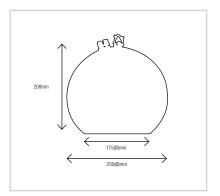
Cable termination is via binding posts and tappings adjusted via multi-step switch. The unit is supplied with a suspension eye for safety and security.

Features:

- Lightweight ABS construction
- Screw terminal connection
- Suspension eye
- White RAL 9010
- Full range coaxial driver
- 100v Power tappings







| Model: | B250T EN |
|---------------------|--------------------------------|
| 100v Power Tappings | 5, 7, 15W |
| Frequency Response | 70Hz ~ 20kHz |
| SPL @ 1W/1m | 91dB |
| Colour | White RAL 9010 |
| Material | ABS |
| Approx. Coverage | 60m ² @ 4.5m height |
| Dimensions | 250(Ø) x 208(D) mm |
| Weight | 3.5kg |

IMC250T EN: 30W Omni-suspended Loudspeaker

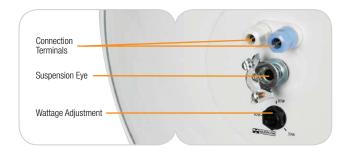
Using a parabolic dish to distribute the sound over a larger area, the IMC250T EN is ideal in larger retail outlets, shopping centres, distribution warehouses, etc.

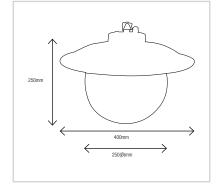
Screw terminals and adjustable wattage selection are standard features of this cost-effective choice, which provides up to 5 times more coverage than conventional loudspeakers. Supplied with suspension eye for safety and security.

Features:

- ABS (Ball) / Metal (Dish)
- Screw terminal connection
- Suspension eye
- White RAL 9010
- Full-range, two-way driver
- 100v Power tappings







| Model: | IMC250T EN |
|---------------------|---|
| 100v Power Tappings | 10, 20, 30W |
| Frequency Response | 70Hz ~ 20kHz |
| SPL @ 1W/1m | 90dB |
| Colour | White RAL 9010 |
| Material | ABS/Metal |
| Approx. Coverage | 200m² @ 6m height |
| Dimensions | Ball: 250(Ø) mm Dish: 400(Ø) x 250(D) mm |
| Weight | 3.5kg |

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IMC300T: 30W Low Profile Omni-suspended Loudspeaker

IMC400T: 60W Low Profile Omni-suspended Loudspeaker

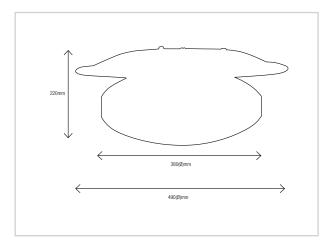
Offering the same advantages as the IMC250TEN, the IMC300T and IMC400T models are designed for installation in environments with lower height ceilings such as car parks and mezanine areas, but are just as effective in regular installations.

Fitted with 3-way loudspeaker systems, both models offer HiFi quality sound.

Features:

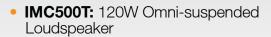
- ABS (Ball) / Metal (Dish)
- Multicore termination
- Multi-suspension points
- White RAL 9010
- HiFi quality sound
- 100v Power tappings
- Low Profile





| Model: | IMC300T | IMC400T |
|---------------------|--------------------|--------------------|
| 100v Power Tappings | 10, 20, 30W | 20, 40, 60W |
| Frequency Response | 50Hz ~ 20kHz | 50Hz ~ 20kHz |
| SPL @ 1W/1m | 89dB | 89dB |
| Colour | White RAL 9010 | White RAL 9010 |
| Material | ABS/Metal | ABS/Metal |
| Approx. Coverage | 200m² @ 6m height | 300m² @ 6m height |
| Dimensions | 500(Ø) x 165(D) mm | 500(Ø) x 165(D) mm |
| Weight | 4.5kg | 5.0kg |





Largest of the Omni Series, the IMC500T is at home covering large areas such as sports halls, ice rinks, large warehouses, exhibition halls, etc.

This speaker provides a full range of music and high intelligibility voice reproduction; ideal for large scale, acoustically challenging environments.

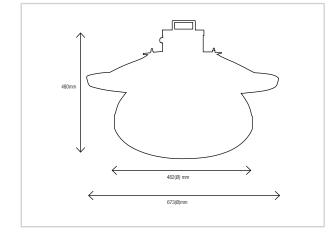
Features:

- ABS
- Screw terminal connection

MAJORCOM

- Suspension eye
- White RAL 9010
- Full range two-way driver
- 100v Power tappings





| Model: | IMC500T |
|---------------------|--------------------|
| 100v Power Tappings | 60, 120W |
| Frequency Response | 50Hz ~ 20kHz |
| SPL @ 1W/1m | 97dB |
| Colour | White RAL 9010 |
| Material | ABS |
| Approx. Coverage | 500m² @ 7m height |
| Dimensions | 673(Ø) x 480(D) mm |
| Weight | 15kg |

V







- DAS10-130T: 10W Metal Sound Projector
- DAS10-130T-EN54: 10W EN54-compliant Metal Sound Projector ♦

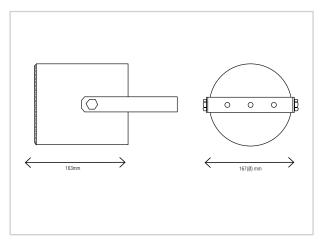
More robust metal version of the DAP Series projector, providing the same features and benefits but in a metal housing for added vandal resistance.

EN54-compliant version available for fire alarm systems.

Features:

- Robust metal case
- Weather / ingress resistance (IP65 rated)
- 100v Power tappings
- Voice & music capacity
- White RAL9010





| Model: | DAS10-130T | DAS10-130T-EN54 |
|---------------------|--------------------|--------------------|
| 100v Power Tappings | 1.5, 3, 6, 10W | 1.5, 3, 6, 10W |
| Frequency Response | 200Hz ~ 16kHz | 200Hz ~ 16kHz |
| SPL @ 1W/1m | 94.1dB | 94.1dB |
| Colour | White RAL9010 | White RAL9010 |
| Material | Metal | Metal |
| IP Rating | IP65 | IP65 |
| Dimensions | 167(Ø) x 163(D) mm | 167(Ø) x 163(D) mm |
| Weight | 3.1kg | 3.1kg |

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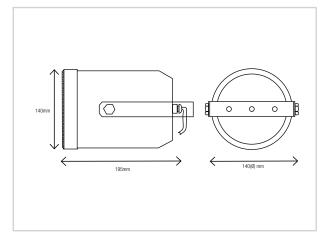
The DAP20 is a general, all-purpose loudspeaker which provides excellent music reproduction and clear voice announcements.

IP65-rated, it will effectively operate indoors or outdoors in transport terminals, shopping centres, retail, warehousing and many other applications.

Features:

- Weather / ingress resistance (IP65 rated)
- Robust plastic housing
- 100v Power tappings
- Voice & music capable
- White RAL9010





| Model: | DAP20-130T |
|---------------------|--------------------|
| 100v Power Tappings | 2.5, 5, 10, 20W |
| Frequency Response | 150Hz ~ 20KHz |
| SPL @ 1W/1m | 99.5dB |
| Colour | White RAL9010 |
| Material | ABS |
| IP Rating | IP65 |
| Dimensions | 140(Ø) x 195(D) mm |
| Weight | 1.35kg |

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DA10-260T:

10W Bi-directional Loudspeaker

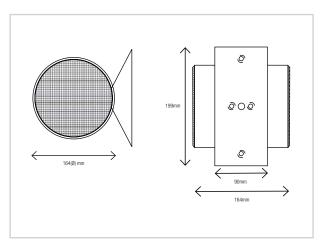
ldeal for installation in corridors, concourses, transport terminals and plant rooms. $\,$

Practical, vandal resistant and incorporating multi-tapping 100v transformer, the DA10 is ideal for voice messages and low level BGM reproduction.

Features:

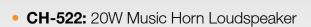
- Vandal resistant
- Tough metal housing
- White RAL9010
- 100v Power tappings
- Integral mounting bracket





| Model: | DA10-260T |
|---------------------|---------------------------|
| 100v Power Tappings | 1.5, 3, 6, 10W |
| Frequency Response | 150Hz ~ 14KHz |
| SPL @ 1W/1m | 90.9dB |
| Colour | White RAL9010 |
| Material | Metal |
| Dimensions | 164(Ø) x 164(D) mm |
| | Bracket 199(L) x 90(W) mm |
| Weight | 2.2kg |





Proofed for outdoor use, the CH-522 can be used in areas where high quality voice and music reproduction are required; for example, distribution centres, production areas and leisure applications.

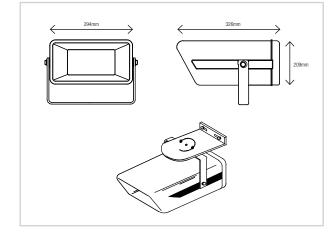
Features:

Modern design

inter

- Indoor/outdoor mounting
- Full range driver/loudspeaker
- 100v Power tappings
- Universal mounting bracket
- Conforms to IP54





| Model: | CH-522 |
|---------------------|------------------------------|
| 100v Power Tappings | 10, 20W |
| Connection | Multicore Cable |
| Frequency Response | 110Hz ~ 20kHz |
| SPL @ 1W/1m | 95dB |
| Dimensions | 294(W) x 209(H) x 326 (D) mm |
| Weight | 3.5kg |



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DK-MH 30/T Plus: 30W Outdoor Music Horn Loudspeaker

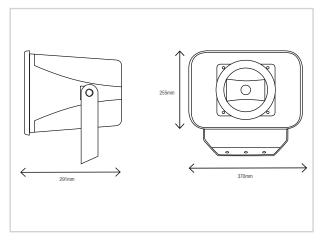
For applications which require high quality, high volume background music and paging, such as sports stadiums, race tracks and public

The DK-MH 30/T is IP66-rated so can be mounted outside in the open.

Features:

- Weather/Ingress resistance (IP66 rated)
- Robust ABS construction
- 100v Power tappings
- Voice & music compatible
- High SPL
- Aluminum mounting bracket
- RAL 7035 grey





| • | |
|---------------------|-----------------------------|
| Model: | DK-MH 30/T Plus |
| 100v Power Tappings | 3.75, 7.5, 15, 30W |
| Frequency Response | 80Hz ~ 14kHz |
| SPL @ 1W/1m | 105.5dB |
| Colour | Grey RAL7035 |
| Material | ABS |
| IP Rating | IP66 |
| Dimensions | 370(W) x 255(H) x 291(D) mm |
| Weight | A 3kg |







- **HS-20:** 20W Horn Loudspeaker
- HS-S20: 20W Horn Loudspeaker

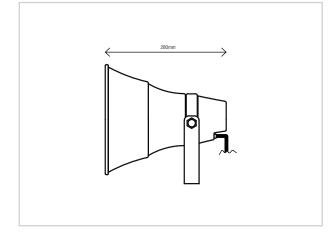
For use in environments where clear, precise voice messages, announcements or emergency tones and signals are required.

The HS-20 and HS-S20 horns can be used in indoor or protected outdoor installations.

Features:

- Re-entrant horns
- Metal/ABS construction
- Indoor and protected outdoor use
- 100v Line / Low impedance operation
- Conforms to IP54





| Model: | HS-20 | HS-S20 |
|--------------------|------------------------------------|------------------------------------|
| Power/Taps | 10, 20W @100v line, 20W/8 Ω | 10, 20W @100v line, 20W/8 Ω |
| Connection | Multicore cable | Multicore cable |
| Frequency Response | 380Hz ~ 6.5kHz | 380Hz ~ 6.5kHz |
| SPL @ 1W/1m | 106dB | 106dB |
| Dimensions | 250(Ø) x 280(D) mm | 169(Ø) x 230(D) mm |
| Weight | 2.5kg | 1.5kg |

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- **DK15T:** 15W Re-entrant Horn Loudspeaker
- **DK30T:** 30W Re-entrant Horn Loudspeaker

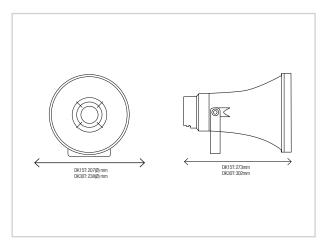
The DK Horn Loudspeaker range is ideal for indoor and outdoor applications requiring high intelligibility and clarity in paging, warning and information systems.

IP66 approved, the units offer multi-tapping, 100v line transformer options as well as a Low Z, 20W setting.

Features:

- Weather / ingress resistance (IP66 rated)
- Robust ABS material
- Rotary 100v power tapping selector
- 1m cable (glanded)
- High SPL





| Specification of | | | |
|---------------------|-----------------------------------|--------------------------|--|
| Model: | DK15T | DK30T | |
| 100v Power Tappings | 1.87, 3.75, 7.5, 15W / 15w@20Ω | 5, 10, 20, 30W / 30w@20Ω | |
| Frequency Response | 300Hz ~ 12.5kHz | 300Hz ~ 6kHz | |
| SPL @ 1W/1m | 107dB | 110dB | |
| Colour | Grey RAL7035 | Grey RAL7035 | |
| Material | ABS | ABS | |
| IP Rating | IP66 | IP66 | |
| Dimensions | 207(Ø) x 273(D) mm | 238(Ø) x 302(D) mm | |
| Weight | 1.9kg | 2.6kg | |









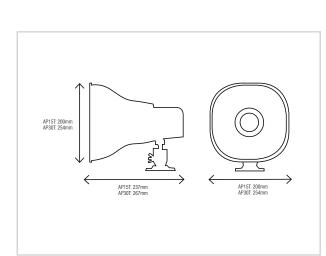
- AP15T: 15W Re-entrant Horn Loudspeaker
- **AP30T:** 30W Re-entrant Horn Loudspeaker

Renowned as the leading industry standard paging horn series, AP15T/30T horns are utilised in many applications such as transport terminals, industrial paging, marine, nuclear and warning systems throughout the world.

Robust metal/ABS construction, multi-tapping wattage selection, flexible mounting brackets and full weather resistance for outdoor use completes the package.

Features:

- Weather/ingress resistance (IP67-rated when used with the BX range of glands)
- Robust metal/ABS construction
- Screwdriver adjustable Tappings
- · High intelligibility
- Optional Gland/Termination (BX1G for AP30T/BX2G for AP15T -



Specifications:

| • | | |
|---------------------|-----------------------------|-----------------------------|
| Model: | AP15T | AP30T |
| 100v Power Tappings | 2, 4, 7.7, 15W | 4, 7, 15, 30W |
| Frequency Response | 400Hz ~ 14kHz | 300Hz ~ 12kHz |
| SPL @ 1W/1m | 106dB | 108dB |
| Colour | Grey | Grey |
| Material | Metal | Metal |
| IP Rating | IP67 (with BX2G) | IP67 (with BX1G) |
| Dimensions | 200(H) x 200(W) x 237(D) mm | 254(H) x 254(W) x 267(D) mm |
| Weight | 2.27kg | 2.86kg |

- **BX1G for 30W Speakers:** Optional Waterproof Cable Gland Assembly
- BX2G for 15W Speakers: Optional Waterproof Cable Gland Assembly

Both the AP15T and AP30T are available with optional waterproof cable gland.











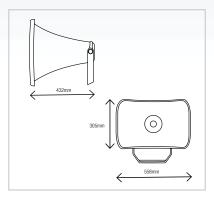
CJ-46: Wide Dispersion Horn/Flare Assembly

Extensively used in stadiums and outdoor events, the CJ46 offers maximum sound penetration in adverse sound conditions.

Units can be mounted individually or grouped / clustered and securely fixed using the heavy duty bracket. Standard 35mm thread allows the fitting of most industry-standard compression drivers (see below for suggested drivers).

Features:

- Robust glass fibre / metal construction
- Environment resistant for both indoor and outdoor use
- Fully serviceable components
- Operational temperature range of -35° ~ +66°C
- Multi-position mounting bracket





Specifications:

| • | |
|------------|-----------------------------|
| Model: | CJ-46 |
| Colour | Black |
| Dispersion | 120° x 60° |
| Dimensions | 558(W) x 305(H) x 432(D) mm |
| Weight | 6.58kg |

PD30T: 30W Driver

Specifications:

| Model: | CJ46 | PD30T** |
|------------------------------------|-------------------------------|-----------------------------|
| Maximum Power | (as per driver) | 30W RMS |
| 100v Power Tappings | (as per driver) | 4, 8, 15, 30W |
| Frequency Range | (Low Frequency Cut-off 115Hz) | 120Hz ~ 14kHz |
| Maximum SPL (1m at rated power) | N/A | 125dB (with CJ-46) |
| Dispersion | 120° X 60° | N/A |
| Dimensions | 584(W) x 380(H) x 432(D) mm | 114(W) x 114(H) x 114(D) mm |
| Weight | 7kg | 2.1kg |



*When fitted with waterproof gland **Specifications when fitted to CJ-46



IP67-rated* 30 Watt Driver for use with the CJ-46 Projector.

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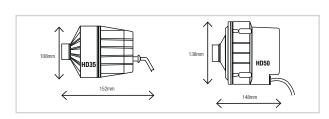
- HD35: 35W Compression Driver Assembly
- HD50: 50W Compression Driver Assembly

Supplied with industry standard 35mm threads, the HD35 and HD50 are compatible with most flares and horns on the market.

Manufactured from cast aluminum and ABS, the units are robust and weatherproof. Multi-tapping 100v transformers and field replaceable voice coils complete the package.

Features:

- Robust ABS construction
- 100v power tapping options
- Field replaceable voice coils (HDVC35 / HDVC50)





| Model: | HD35 | HD50 |
|---------------------|--------------------|--------------------|
| 100v Power Tappings | 10, 15, 20, 35W | 15, 30, 50W |
| Frequency Response | 510Hz ~ 3.27kHz | 319Hz ~ 2.96kHz |
| SPL @ 1W/1m | 113dB | 111.5dB |
| Colour | Grey RAL9007 | Grey RAL9007 |
| Material | Aluminium/ABS | Aluminium/ABS |
| Dimensions | 108(Ø) x 152(D) mm | 138(Ø) x 148(D) mm |
| Weight | 2.5kg | 2.9kg |





WS210: 10W Wall Speaker

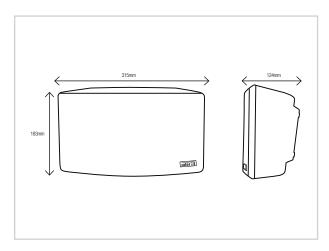
WS230: 30W Wall Speaker

Inter-M's new-design wall speakers combine discreet styling and simplicity to provide an elegant voice/background music wall speaker for use in offices, waiting rooms, cafeterias, retail sites, etc.

Features:

- Modern, discreet styling
- Available in black or white
- Screw terminal connection
- High quality 100v line transformer
- WS203/210 6" full range driver
- WS230 6" 2-way driver





| Model: | WS203 | WS210 | WS230 |
|---------------------|-----------------------------|-----------------------------|-----------------------------|
| 100v Power Tappings | 1, 2, 3W | 3, 5, 10W | 10, 20, 30W |
| Frequency Response | 137Hz ~ 16kHz | 136Hz ~ 16kHz | 126Hz ~ 16kHz |
| SPL @ 1W/1m | 91dB | 92dB | 93dB |
| Dimensions | 315(W) x 183(H) x 124(D) mm | 315(W) x 183(H) x 124(D) mm | 315(W) x 183(H) x 124(D) mm |
| Weight | 1.2kg | 1.4kg | 2.2kg |

Audio System Tools

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MS-15: 15W Fashion Monitor Loudspeaker

The modern design of the MS-15 makes it ideal for installation in contemporary, modern environments such as bars, pubs, audio visual, conference, education or retail sites and is proofed for use in outdoor or damp environments.

Units are available in black or white and are supplied with a versatile multi-position mounting bracket.

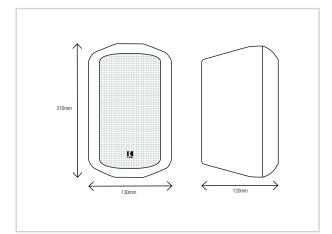
Wattage tappings are via a multi-way removable Phoenix-type screw terminal block on the rear.

Features:

- Contemporary design
- Black or white options
- Multi-position mounting bracket
- High quality full-range driver
- Removable 'Phoenix' connection block
- $\bullet\,$ Multi-tapping 100v transformer / LowZ $8\Omega\,$
- Weatherproof housing/driver







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|---------------------|-----------------------------|
| Model: | MS-15 |
| 100v Power Tappings | 3.75, 7.5, 15W |
| Low Z 8Ω | 15W |
| Frequency Response | 109Hz ~ 17kHz |
| SPL @ 1W/1m | 99.8dB |
| Colour Options | White (W) and Black (B) |
| Material | ABS |
| Dimensions | 130(W) x 210(H) x 120(D) mm |
| Weight | 2kg |







PROJECT315WHT:

15W White Fashion Speaker

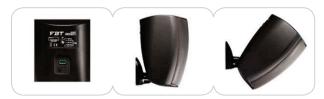
Project speakers have been created and developed in order to provide a suitable solution for any loudspeaker installation: their characteristics allow their use in any environment, keeping the same high quality sound.

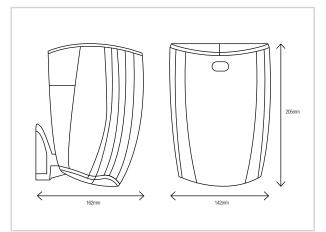
The Project range features a compact two-way system ensuring high power performance, wide dynamics, high-fidelity music reproduction and high speech intelligibility.

Features:

- 2-way Bass reflex systems with 0.5" dome tweeter
- $\bullet\,$ Rated Power @ 8Ω 30W
- 15W with 100v transformer
- Power tappings via rotary switch
- Complete with adjustable wall mounting bracket
- Safety chain included







| Model: | PROJECT315BT / PROJECT315WHT | |
|--------------------|---------------------------------------|--|
| Rated power | 1, 2, 4, 7.5, 15 with 100v / 30W @ 8Ω | |
| Frequency Response | 100Hz ~ 15kHz | |
| SPL @ 1W/1m | 85dB | |
| Maximum SPL 1m | 100dB | |
| Dimensions | 142(W) x 205(H) x 162(D) mm | |
| Weight | 2kg | |







PROJECT550BT:

50W Black Fashion Speaker

PROJECT550WHT: 50W White Fashion Speaker

Project speakers have been created and developed in order to provide a suitable solution for any loudspeaker installation; their characteristics allow their use in any environment, keeping the same high quality sound.

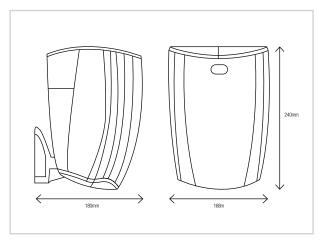
The Project range features a compact two-way system ensuring high power performance, wide dynamics, high-fidelity music reproduction and high speech intelligibility.

Features:

- 2-way Bass reflex systems with 0.5" dome tweeter
- 5" woofer + 1" tweeter
- 50W 100v line / 100W 8Ω output
- ABS housing with metal grille
- Frequency Response: 80Hz ~ 20kHz
- Max. SPL: 109dB
- Dispersion: 100° (H) x 100° (V)
- Fully adjustable die cast mounting bracket (ball joint)
- · Supplied with safety wire







| • | |
|--------------------|------------------------------|
| Model: | PROJECT550BT / PROJECT550WHT |
| NOM/MAX Power | 50W, 100W |
| Rated power | 15, 25, 40, 50W / 100W @ 8Ω |
| Frequency Response | -10dB, 80Hz ~ 20kHz |
| SPL @ 1W/1m | 89dB |
| Maximum SPL | 109dB |
| Power requirement | 100ν/8Ω |
| Dispersion | 100°(H) x 100°(V) |
| Connectors | Phoenix |
| Dimensions | 168(W) x 240(H) x 180(D) mm |
| Weight | 3.4kg |







PROJECT640BT: 40W Black Fashion Speaker

PROJECT640WHT:

40W White Fashion Speaker

Project speakers have been created and developed in order to provide a suitable solution for any loudspeaker installation; their characteristics allow their use in any environment, keeping the same high quality sound.

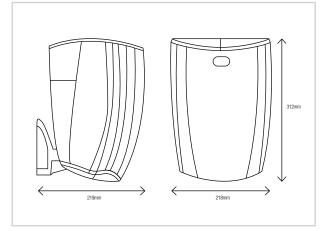
The project range features a compact two-way system ensuring high power performance, wide dynamics, high-fidelity music reproduction and high speech intelligibility.

Features:

- 2-way Bass reflex systems with 0.5" dome tweeter
- 6.5" woofer + 1" tweeter
- 40W 100v line / 80W 8 Ω output
- ABS housing with metal grille
- Frequency Response: 70Hz ~ 20kHz
- Max. SPL: 108dB
- Dispersion: 90° (H) x 90° (V)
- Fully adjustable die cast mounting bracket (ball joint)
- Supplied with safety wire







| Model: | PROJECT640BT / PROJECT640WHT |
|--------------------|------------------------------------|
| NOM/MAX Power | 40W, 80W |
| Rated power | 10, 20, 30, 40W / 80W @ 8 Ω |
| Frequency Response | -10dB, 70Hz ~ 20kHz |
| SPL @ 1W/1m | 89dB |
| Maximum SPL | 108dB |
| Power requirement | 100v, 8Ω |
| Dispersion | 90°(H) x 90°(V) |
| Connectors | Phoenix |
| Dimensions | 218(W) x 312(H) x 219(D) mm |
| Weight | 4.6kg |









STUDIO.PRO9 Series:

Pro Quality Loudspeaker Cabinets

Models:

• STUDIO.PRO 9B: 120W, Black, Low Impedance, Pro Quality

Loudspeaker Cabinet

• STUDIO.PRO 9W: 120W, Grey, Low Impedance, Pro Quality

Loudspeaker Cabinet

• STUDIO.PRO9 BT: 80W, Black, 100v Line, Pro Quality Loudspeaker Cabinet

• STUDIO.PRO9 WT: 80W, Grey, 100v Line, Pro Quality Loudspeaker Cabinet

• STUDIO.PRO9 BA: 80W + 20W, Black, Pro Quality, Active

Loudspeaker Cabinet

Its lightweight construction makes the STUDIO Pro 9 Series the perfect solution for portable or permanent installations in audio visual, presentation or educational applications.

FBT's STUDIO Pro 9 Series music loudspeakers are stylish, extremely lightweight and robust, manufactured in high quality injection moulded

All models feature integral stand adapter, 2 x M6 anchoring points and are available in black or light grey.

Features:

- 2-way bass reflex system with 130mm woofer and 25mm high frequency tweeter
- 100V line versions tapped at 5, 20, 50, 80W
- Active Loudspeaker versions feature 80W + 20W internal amplifiers. ADAP (Advanced Dynamic Active Protection) designed to limit amplifier saturation and ensure consistent reliability if over driven
- Active versions feature control panel with Ground lift, Combo XLR/Jack inputs, XLR male output, limiter and level control







SJ9UB Wall Mounting Brackets: Black / SJ9UW Wall Mounting Brackets: Grey RAL

SJ9B Adjustable Wall support: Black SJ9W Adjustable Wall support: Grey RAL

| Model: | STUDIO.PRO 9B & W | STUDIO.PRO 9BT & WT | STUDIO.PRO 9BA & WA |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Colour | Black or Grey | Black or Grey | Black or Grey |
| Configuration | 2-way | 2-way | 2-way |
| Recommended amplifier | 120W RMS | 80W RMS | - |
| Internal amplifier | - | - | 80W + 20W |
| Long-term applicable power (AES) | 60W | - | - |
| Short-term applicable power (IEC 268-5) | 240W | - | - |
| Rated Impedance | 8Ω | - | - |
| Transformer | - | 100v | - |
| Frequency Response (@-6dB) | 80Hz ~ 20kHz | 80Hz ~ 20kHz | 70Hz ~ 20kHz |
| Low frequency woofer | 1 x 200 38(Ø) mm coil | 1 x 200 38(Ø) mm coil | 1 x 200 38(Ø) mm coil |
| High frequency tweeter | 1 x Tweeter + horn 20(Ø) mm coil | 1 x Tweeter + horn 20(Ø) mm coil | 1 x Tweeter + horn 20(Ø) mm coil |
| SPL @ 1W/1m | 95.5dB | 95.5dB | 95dB |
| Maximum SPL 1m | 116.5dB | 114.5dB | 115dB |
| Dispersion | 90°(H) x 60°(V) | 90°(H) x 60°(V) | 90°(H) x 60°(V) |
| Recommended HP filter | 60Hz 24dB oct | 60Hz 24dB oct | = |
| Crossover frequency | 3.5kHz | 3.5kHz | 2.5kHz |
| Input connectors | Spring terminals | Spring terminals | Combo XLR-M/JACK |
| Dimensions | 255(W) x 415(H) x 245(D) mm | 255(W) x 415(H) x 245(D) mm | 255(W) x 415(H) x 245(D) mm |
| Weight | 4.8kg | 4.8kg | 5.4kg |





 STUDIO.PRO 14BA: 150W + 50W, Active, Performance Loudspeaker Cabinet

Features:

- Extremely light and sturdy enclosure made of injection moulded polypropylene, black colour, including integral handle
- Stand adapter, 2 M6 anchoring points

Audio Contractor

- 2-way bass-reflex system with 320mm woofer and 25mm high frequency tweeter
- STUDIO.PRO 14 BA with built-in class G amplifiers, 150W RMS for the woofer and 50W RMS for the high frequency unit; ADAP (Advance Dynamic Active Protection) designed to limit amplifier saturation and ensure complete reliability of the system even in extreme conditions

• Maximum SPL:

STUDIO.PRO 14 B: 122/125dB STUDIO.PRO 14 BA: 121dB

- Dispersion (HxV) 90° x 60°
- 2 speakon input connectors
- STUDIO.PRO 14 BA: Control panel with Ground Lift switch, Combo XLR/JACK inputs, XLR male output, limiter, volume control
- STUDIO.PRO 14 BA: 24dB/oct active filters





| Model: | STUDIO.PRO 14B/W | STUDIO.PRO 14BA/WA |
|---|-----------------------------------|-----------------------------------|
| Colour | Black or Grey (RAL 7035) | Black or Grey (RAL 7035) |
| Configuration | 2-way | 2-way |
| Recommended amplifier | 250W RMS | - |
| Internal amplifier | - | 150W+50W RMS |
| Long-term applicable power (AES) | 125W | - |
| Short-term applicable power (IEC 268-5) | 500W | - |
| Rated Impedance | 8Ω | - |
| Frequency Response (@-6dB) | 60Hz ~ 20kHz | 60Hz ~ 20kHz |
| Low frequency woofer | 1 x 320 51(Ø)mm coil | 1 x 320 51 (Ø)mm coil |
| High frequency tweeter | 1 x 25.4 + horn 25.4(Ø)mm coil | 1 x 25.4 + horn 25.4(Ø)mm coil |
| SPL @ 1W/1m | 98dB | 98dB |
| Maximum SPL 1m | 122, 125dB | 121dB |
| Dispersion | 90°(H) x 60°(V) | 90°(H) x 60°(V) |
| Recommended HP filter | 40Hz 24dB oct | 40Hz 24dB oct |
| Crossover frequency | 2.5kHz | 2.5kHz |
| Input connectors | 2 x speakon | 2 x speakon |
| Dimensions | 410(W) x 663(H) x 387(D) mm | 410(W) x 663(H) x 387(D) mm |
| Weight | 13.5kg | 16kg |

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SE8: 100W Music Cabinet System

SE10: 150W Music Cabinet System

SE12: 250W Music Cabinet System

SE15: 300W Music Cabinet System

SB15A: 450W Sub Bass

The SE Series loudspeaker systems from Inter-M provide both high power and high sensitivity output. The accurate sound reproduction from the SE Series makes them ideal for a wide variety of applications such as houses of worship, night clubs, performing arts facilities, fitness centres, auditoriums and educational establishments for both portable and installed systems.

Trapezoidal in shape, the optimised enclosure design is constructed from high density MDF reducing internal resonance and optimising sound output. Each model is equipped with a heavy duty woofer providing distortion-free low frequency reproduction and 1" titanium diaphragm for smooth extended high frequency response, with in-built protection circuitry preventing the HF unit being overdriven.

The sub bass further enhances the SE Series by providing support for the lower level frequencies required in today's demanding performance environments.

Also included are 35mm top hat pole mounts in the base of each cabinet and multiple embedded M8 fixing points allow the fitting of appropriate bracket work or flying hardware.

Features:

- Trapezoidal two-way speaker system
- HF driver protection circuitry
- · Titanium compression drivers
- Pole mount top hat and M8 rigging points for suspension / mounting hardware
- Optimised enclosure designed for smooth and extended response
- High quality MDF construction
- Advanced crossover design provides smooth and clear response
- · Heavy duty grille
- · Robust painted finish (Black)



| = | | | | | |
|---------------------|---|--|--|--|-------------------------------|
| Model: | SE8 | SE10 | SE12 | SE15 | SB15A |
| Rated Power | 100W AES, 400W Peak | 150W AES, 600W Peak | 250W AES, 1000W Peak | 300W AES, 1200W Peak | 450W AES, 1800W Peak |
| Туре | Ultra-compact, 2-way Passive | Compact, 2-way Passive | Compact, 2-way Passive | Compact, 2-way Passive | Compact, Sub Bass |
| Frequency Response | 65Hz ~ 18KHz | 55Hz ~ 18KHz | 40Hz ~ 18KHz | 38Hz ~ 18KHz | 40Hz ~ 300KHz |
| Drivers | 8" LF Driver, 1" HF compression driver | 10" LF Driver, 1" HF compression driver | 12" LF Driver, 1" HF compression driver | 15" LF Driver, 1" HF compression driver | 15" LF Driver |
| SPL @ 1W/1m | 93dB | 94dB | 96dB | 97dB | 98dB |
| Maximum SPL | 112dB (1m) | 114dB (1m) | 117dB (1m) | 119dB (1m) | 124dB (1m) |
| Nominal Impedance | 8Ω | 8Ω | 8Ω | 8Ω | 8Ω |
| Crossover Frequency | 2.5kHz | 2.3kHz | 2.15kHz | 2kHz | = |
| Dispersion (-6dB) | 75° horizontal, 60° vertical | 75° horizontal, 60° vertical | 75° horizontal, 60° vertical | 75° horizontal, 60° vertical | = |
| Connectors | 2 x NL4 (SPEAKON) | 2 x NL4 | 2 x NL4 | 2 x NL4 | 2 x NL4 |
| Fittings | 3 x M8, 1 x mounting pole socket | 6 x M8, 1 x mounting pole socket | 6 x M8, 1 x mounting pole socket | 6 x M8, 1 x mounting pole socket | 1 x mounting pole socket (top |
| Dimensions | 296(W) x 460(H) x 290(D) mm | 362(W) x 545(H) x 355(D) mm | 422(W) x 665(H) x 415(D) mm | 480(W) x 736(H) x 470(D) mm | 470(W) x 636(H) x 540(D) mr |
| Weight | 13kg | 17.4kg | 22.8kg | 32kg | 32kg |







SOUND SYSTEMS

Ceiling speakers without seeing speakers

i-ceilings 'invisible' integrated Sound Panel loudspeakers from the world leaders in ceiling development.

In providing the ideal environment, the consideration of both acoustics and aesthetics is essential.

i-ceilings, the latest generation of integrated sound panels, uses state-of-the-art NXT technology to provide exceptional sound qualities without spoiling the aesthetic consistency of the ceiling plane.

Combining the innovation of the world's leading designers and suppliers of ceiling systems with the unique sound qualities of NXT technology, Armstrong have produced a unique concept in acoustic ceilings to provide an unparalleled sound system for foreground and background music, voice reinforcement, public address and active acoustics such as sound masking.

Features:

- New generation product design
- Completely 'unidentifiable' loudspeaker solution
- Matches over 90% of Armstrong suspended ceiling systems
- Installed up to 75% faster than standard ceiling speakers
- Unparalleled levels of intelligibility and dispersion of sound
- New 'Powered' & 'Surface-mount' versions also available





Retail



Education

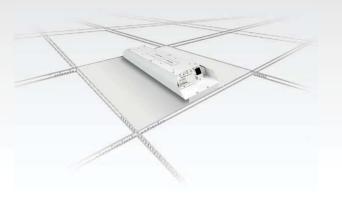


The concept of i-ceilings

A unique concept in integrated acoustic ceiling systems, i-ceilings utilises NXT flat panel audio technology to provide a loudspeaker system designed to match Armstrong's market-leading range of suspended ceilings.

The i-ceilings concept allows for 'invisible' loudspeaker solutions which benefit from greatly increased sound dispersion, providing incredibly even levels of sound reproduction compared with the 'hot and cold spots' associated with traditional 'cone' loudspeaker technology.

Due to their aesthetic and acoustic qualities, i-ceilings Sound Panels are ideal in education, retail, boardrooms, offices, call centres, healthcare, hospitality and leisure, ensuring even coverage of high quality music and voice reproduction without compromise to the



The technology

The Armstrong i-ceilings range of Sound Panels utilises the unique loudspeaker technology 'NXT™'. Unlike conventional cone speakers which operate with a piston-like action, NXT technology introduces resonant vibrations to the entire surface of a lightweight flat panel via an electronic transducer system.

In effect, the panel within the ceiling tile is vibrating in much the same way as a piano or acoustic guitar. Like these musical instruments, i-ceilings panels generate highly diffuse and disperse sound energy (similar in nature to the light emitted from a fluorescent lamp).

Sound, therefore, is radiated in all directions to ensure highly intelligible voice and music reproduction and even sound coverage. This is different to the results of a conventional piston-like cone speaker which can cause highly directional and often unintelligible speech in large open spaces.



Uniform sound vibration pattern of a conventional cone speaker



Uncorrelated sound vibration pattern of an NXT Panel

Corporate



Leisure









CS-1000: 8W Sound Panel Ceiling Speakers

CS-1000 Sound Panel with superior combined performance for music, public address and active acoustics privacy, comfort and workspace effectiveness. New development and remodelling ensures even greater performance and ease of installation from the complete i-ceilings range. Available to co-ordinate with Armstrong's most popular ceiling patterns, for newbuild and retrofit installations.

Superior Aesthetics:

- Provides improved aesthetics over conventional visible speakers
- · Seemlessly blends with the rest of the ceiling

Flexibility & Value:

- Quick, easy and less expensive to install and/or relocate
- Lays into standard 600 x 600 mm ceiling tile grid*
- Low profile and location in the ceiling plane reduces plenum

Acoustic Features:

- Compatible with 100v line and low impedance systems (8Ω Selector Terminal)
- Omni-directional speaker design delivers more uniform sound for broader coverage
- High speech intelligibility over large areas
- · Delivers music, public address and active acoustics through the same speaker eliminating redundant systems
- · Low transducer self-noise
- Variable wattage tap for localised volume control (New external screw terminals for faster, easier installation)

Material:

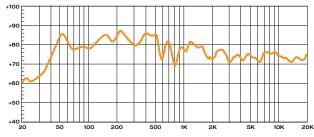
• Steel frame, specially designed tubular membrane, painted scrim facing

Applications:

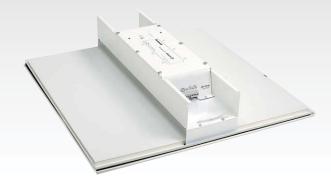
- · Office
- Retail • Leisure
- Education · Healthcare

Frequency Response:

- · Frequency range nominal
- Armstrong CS-1000 Ultima
- Built in a ceiling, independently tested in an anechoic chamber
- · Power: 1W • Distance: 1 metre



*Also available in all standard European ceiling module sizes



Finishes:

• i-ceilings CS-1000 Panels are currently available in Armstrong's most popular ceiling tile finishes: Ultima, Optima, Dune, Fine Fissured, Orcal Neeva and Reno.

For details of non-standard, bespoke units, please call the CIE-Group sales office on +44 (0)115 $9770075\,$



Part Numbers:

| Part Number: | Product: | Finish: |
|--------------|----------|---------------------------|
| BP6017ME | CS-1000 | Ultima / Optima MicroLook |
| BP6018ME | CS-1000 | Ultima / Optima Tegular |
| BP6019ME | CS-1000 | Dune Plus MicroLook |
| BP6020ME | CS-1000 | Dune Plus Tegular |
| BP6021ME | CS-1000 | Fine Fissured MicroLook |
| BP6022ME | CS-1000 | Fine Fissured Tegular |

| Model: | CS-1000 |
|----------------|-----------------------------|
| SPL @ 1W/1m | 86.9dB / Max 95.9dB |
| Impedance | 100v: 1, 2, 4 & 8W / 8Ω |
| Transducers | Quantity: 1 |
| Power Capacity | 8W |
| Dimensions | 600(W) x 600(L) x 115(D) mm |
| Panel Weight | 4.4kg |









CS-4000: 8W Sound Panel Ceiling Speakers

The new 4 Transducer CS-4000 Sound Panel provides enhanced output and frequency range performance for AV, public address and active acoustics to enhance privacy, comfort and workspace effectiveness. New development and remodelling ensures even greater performance and ease of installation from the complete i-ceilings range. Available to co-ordinate with Armstrong's most popular ceiling patterns, for new-build and retrofit installations.

Superior Aesthetics:

- Provides improved aesthetics over conventional visible speakers
- · Seemlessly blends with the rest of the ceiling

Flexibility & Value:

- Quick, easy and less expensive to install and/or relocate
- Lays into standard 600 x 600 mm ceiling tile grid*
- Low profile and location in the ceiling plane reduces plenum conflicts

Acoustic Features:

- 4 Transducer version for higher output levels and wider frequency range
- Compatible with 100v line and low impedance systems (8Ω Selector Terminal)
- Omni-directional speaker design delivers more uniform sound for broader coverage
- · High speech intelligibility
- · Delivers music, public address and active acoustics through the same speaker eliminating redundant systems
- Low transducer self-noise
- · Variable wattage tap for localised volume control (New external screw terminals for faster, easier installation)

Material:

• Steel frame, specially designed tubular membrane, painted scrim facing

Applications:

 Retail Office

• Education • Leisure

Healthcare

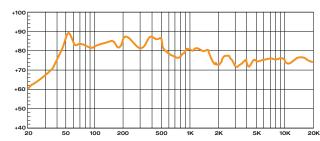
Frequency Response:

• Frequency range - nominal

• Armstrong CS-4000 Ultima

• Built in a ceiling, independently tested in an anechoic chamber

· Power: 1W • Distance: 1 metre



*Also available in all standard European ceiling module sizes



Finishes:

• i-ceilings CS-4000 Panels are currently available in Armstrong's most popular ceiling tile finishes: Ultima, Optima, Dune, Fine Fissured, Orcal Neeva and Reno.

For details of non-standard, bespoke units, please call the CIE-Group sales office on +44 (0)115 $9770075\,$



Part Numbers:

| Part Number: | Product: | Finish: |
|--------------|----------|---------------------------|
| BP4017ME | CS-4000 | Ultima / Optima MicroLook |
| BP4018ME | CS-4000 | Ultima / Optima Tegular |
| BP4019ME | CS-4000 | Dune Plus MicroLook |
| BP4020ME | CS-4000 | Dune Plus Tegular |
| BP4021ME | CS-4000 | Fine Fissured MicroLook |
| BP4022ME | CS-4000 | Fine Fissured Tegular |

| - | |
|----------------|-----------------------------|
| Model: | CS-4000 |
| SPL @ 1W/1m | 88.9dB / Max 97.4dB |
| Impedance | 100v: 1, 2, 4, 8W / 8Ω |
| Transducers | Quantity: 4 |
| Power Capacity | 8W |
| Dimensions | 600(W) x 600(L) x 115(D) mm |
| Panel Weight | 4.6kg |







Pro Series Sound Panel with superior combined performance for music and audio visual applications. New development and remodelling ensures even greater performance and ease of installation from the complete i-ceilings range. Available to co-ordinate with Armstrong's most popular ceiling patterns, for newbuild and retrofit installations.

Superior Aesthetics:

- · Provides improved aesthetics over conventional visible speakers
- · Seemlessly blends with the rest of the ceiling

Flexibility & Value:

- · Quick, easy and less expensive to install and/or relocate
- Lays into standard 600 x 600 mm ceiling tile grid*
- · Low profile and location in the ceiling plane reduces plenum

Acoustic Features:

- · Superior dispersion of sound over the full audible range
- · Advanced membrane design produces high fidelity music for foreground and background applications
- Superior audio capabilities provide high quality active acoustics
- High power capacity generates high performance sound
- 'ln' & 'out' terminals for both 100v and 8Ω
- Compatible with 100v line and low impedance systems (8Ω Selector Terminal)
- Omni-directional speaker design delivers more uniform sound for broader coverage
- · High speech intelligibility over large areas
- . Delivers music, public address and active acoustics through the same speaker eliminating redundant systems
- Variable wattage tap for localised volume control (New external screw terminals for faster, easier installation)

Material:

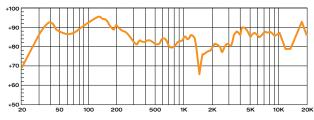
• Steel frame, special honeycomb membrane, painted scrim facing

Applications:

- Office
- Retail
- Education • Leisure
- · Healthcare

Frequency Response:

- Frequency range nominal
- Armstrong Pro Panel Ultima
- Built in a ceiling, independently tested in an anechoic chamber
- Power: 1W
- · Distance: 1 metre



*Also available in all standard European ceiling module sizes



Finishes:

• i-ceilings CS-1000 Panels are currently available in Armstrong's most popular ceiling tile finishes: Ultima, Optima, Dune, Fine Fissured, Orcal Neeva and Reno.

For details of non-standard, bespoke units, please call the CIE-Group sales office on +44 (0)115 9770075



Part Numbers:

| Part Number: | Product: | Finish: |
|--------------|------------|---------------------------|
| BP6013ME | Pro Series | Ultima / Optima MicroLook |
| BP6014ME | Pro Series | Ultima / Optima Tegular |
| BP6015ME | Pro Series | Dune Plus MicroLook |
| BP6016ME | Pro Series | Dune Plus Tegular |
| BP6030ME | Pro Series | Fine Fissured MicroLook |
| BP6031ME | Pro Series | Fine Fissured Tegular |

| Model: | PRO Panel |
|----------------|-----------------------------|
| SPL @ 1W/1m | 93dB |
| Impedance | 100v: 7.5, 15, 30W / 8Ω |
| Transducers | Quantity: 4 |
| Power Capacity | 30W |
| Dimensions | 600(W) x 600(L) x 120(D) mm |
| Panel Weight | 5.5kg |





PRO/Pwrd: 20W i-ceilings Powered Sound Panel Ceiling Speakers

i-ceilings CS-4000 and Pro Panels are now also available as powered versions, featuring our exclusively developed Integrated Panel Amplifier.

The 20W Panel Amplifier is factory-fitted and features line level volume control, tone controls and external speaker output.

All connections to the amplifier are externally accessible using removable screw terminals for fast and easy connection.

Acoustic Features:

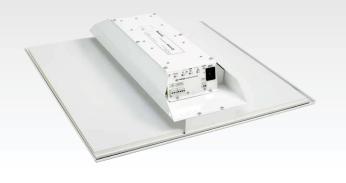
- 20W Integrated Amplifier (30W Peak)
- Line Level Volume Control
- Low, Mid and High Tone Controls
- Available in self-powered CS-4000 and Pro Panel versions
- · Powered Panel versions will power an additional passive CS4000 Sound Panel slave
- Fast and easy to install

Applications:

- AV Presentation Systems
- Healthcare
- Leisure
- Corporate

Material:

· Steel frame and bridge





Part Numbers:

| Part Number: | Product: | Finish: |
|---------------|-----------------|---------------------------|
| BP4017ME/Pwrd | CS-4000/Pwrd | Ultima / Optima MicroLook |
| BP4018ME/Pwrd | CS-4000/Pwrd | Ultima / Optima Tegular |
| BP4019ME/Pwrd | CS-4000/Pwrd | Dune Plus MicroLook |
| BP4020ME/Pwrd | CS-4000/Pwrd | Dune Plus Tegular |
| BP4021ME/Pwrd | CS-4000/Pwrd | Fine Fissured MicroLook |
| BP4022ME/Pwrd | CS-4000/Pwrd | Fine Fissured Tegular |
| BP6013ME/Pwrd | Pro Series/Pwrd | Ultima / Optima MicroLook |
| BP6014ME/Pwrd | Pro Series/Pwrd | Ultima / Optima Tegular |
| BP6015ME/Pwrd | Pro Series/Pwrd | Dune Plus MicroLook |
| BP6016ME/Pwrd | Pro Series/Pwrd | Dune Plus Tegular |
| BP6030ME/Pwrd | Pro Series/Pwrd | Fine Fissured MicroLook |
| BP6031ME/Pwrd | Pro Series/Pwrd | Fine Fissured Tegular |

Specifications:

| Model: | CS-4000/Pwrd | PRO/Pwrd |
|--------------------------|-----------------------------|-----------------------------|
| Frequency Range | 80Hz ~ 18kHz | 40Hz ~ 20kHz |
| Output Impedance | 8Ω | 8Ω |
| Output Power | 8W RMS (max) | 20W RMS (max) |
| Operating Voltage | 230v AC | 230v AC |
| SPL @ 1W/1m | 88.9dB / 97.4dB Max | 93dB 1m |
| Extension Speaker Output | 8W | 8W |
| Dimensions: | 600(W) x 600(D) x 120(H) mm | 600(W) x 600(D) x 120(H) mm |
| Panel Weight: | 6.2kg per panel | 7.1kg per panel |

RVC1: Remote Volume Control

RVC1 Wall-mounting remote volume control is available as an additional option.



Portable P.A





CS4500ME: 8W Surface-mount Sound Panel Ceiling Speaker

The new CS4500 Sound Panel has been developed to provide all the acoustic benefits of an i-ceilings NXT loudspeaker, in environments featuring solid/plasterboard ceilings (ie. no suspended ceiling system available for installing standard i-ceilings Sound Panels).

This surface-mount solution features an i-ceilings CS Sound Panel fitted within a low-profile, steel 'back box' for direct mounting to a solid ceiling.

Acoustic Features:

- Compatible with 100v line and low impedance systems (8Ω Selector Terminal)
- Omni-directional speaker design delivers more uniform sound for broader coverage
- High speech intelligibility over large areas
- Delivers music, public address and active acoustics through the same speaker
- Variable wattage tap for localised volume control (internal screw terminals)

Applications:

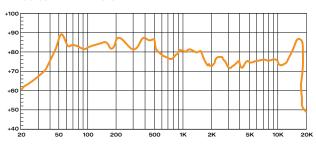
- Office
- Education
- Healthcare
- Retail
- Leisure

Material:

• White, steel enclosure, specially designed membrane, white scrim facing

Frequency Response:

- Frequency range nominal
- Armstrong CS4500
- Built in a ceiling, independently tested in an anechoic chamber
- Power: 1WDistance: 1 metre





Back-box rear elevation

Specifications:

| Model: | CS4500ME |
|-----------------|----------------------------|
| SPL @ 1W/1m | 88.9dB / Max 97.4dB |
| Frequency Range | 50Hz ~ 18kHz |
| Impedance | 100v: 1, 2, 4 & 8W / 8Ω |
| Transducers | Quantity: 4 |
| Power Capacity | 8W |
| Dimensions | 500(W) x 500(L) x 70(D) mm |
| Panel Weight | 4.3kg |

Part Numbers:

| Part Number: | Product: | Finish: |
|--------------|----------|-----------------------|
| BP4500ME | CS4500ME | WHITE TEXTURED FINISH |

Please Note: The CS5400 Sound Panel is not appropriate for wallmount applications





- AIW1X: 20W Plastered In-Wall Loudspeaker
- AIW3X: 40W Plastered In-Wall Loudspeaker
- AIW5X: 80W Plastered In-Wall Loudspeaker

The advent of high power vibrational element flat panel loudspeakers has given birth to the truly unseen loudspeaker.

This plastered in-wall (or in-ceiling) product type reproduces high definition sound with zero visual interference to room aesthetics. Entertainment systems can now be employed in every room of the home, whilst avoiding all the usual techno clutter.

This technology has the additional advantage of improving dispersion characteristics over a conventional loudspeaker, making speaker location and listening position much more flexible.

The width of an AIW product allows it to fit well within the centre spacing commonly used in modern wood or metal studwork construction methods (400mm space).

Applications:

- The AIW1X is an affordable, concealed sound source for use in all parts of the home where more modest sound levels are called for. From bedrooms and bathrooms to kitchens and hallways, it reproduces high quality audio without compromising style or design.
- The AIW3X is for use in all parts of the home including the main listening areas of home cinema, where good high levels of sound are required.
- The AIW5X can be reserved for those special areas of the home (e.g. home cinema rooms) where very loud, highly dynamic, high performance reproduction is required. In home cinema and other extended frequency range listening applications the addition of a sub woofer to your system is recommended. For those with monster taste in music or movie loudness, simply apply more than one AIW5 per channel.











Specifications:

| Product: | AIW1X | AIW3X | AIW5X |
|---|--|--|--|
| Nominal Impedance | 8Ω | 8Ω | 8Ω |
| Power Handling: (continuous) | 20W | 40W | 80W |
| Sensitivity (with 1.5mm plaster skin) @ 1W/1m | 82dB | 85dB | 88dB |
| Maximum SPL (with 1.5mm plaster skin) | 95dB 1m/20W | 99dB 1m/40W | 105dB 1m/80W |
| Frequency Range | 100Hz ~ 20kHz | 100Hz ~ 20kHz | 100Hz ~ 20kHz |
| Electrical Connection | Butt splice crimp or 2 part polarised connector | Butt splice crimp or 2 part polarised connector | Butt splice crimp or 2 part polarised connector |
| Minimum Aperture Depth | 60mm from front of panel | 60mm from front of panel | 60mm from front of panel |
| Fixings Provided | Suitable for 12.5 and 16mm thick plasterboard | Suitable for 12.5 and 16mm thick plasterboard | Suitable for 12.5 and 16mm thick plasterboard |
| Box Quantity | Pairs | Pairs | Pairs |
| High Pass Filter Requirement | 100Hz at 24dB/Octave (Minimum external required eg Amina APU2 protection device) | 100Hz at 24dB/Octave (Minimum external required eg Amina APU2 protection device) | 100Hz at 24dB/Octave (Minimum external required eg Amina APU2 protection device) |
| Dimensions | 450(W) x 345(H) x 38(D) mm | 450(W) x 345(H) x 38(D) mm | 450(W) x 345(H) x 38(D) mm |
| Weight | 1kg | 1.13kg | 1.76kg |

For the very best results, your system electronics should also comprise in-line equalisation to compensate for slight variations in frequency response due to plaster depths and wall types







InformaCast



InformaCast IP: Broadcasting & Loudspeaker Systems

Easily connect loudspeaker systems to existing computer networks with IP Speakers. Atlas Sound IP Speakers are a Power-over-Ethernet (PoE) loudspeaker range which require only a RJ-45 connector to connect to existing data networks.

The perfect choice for education, military/government, and large scale corporate applications, InformaCast IP Broadcasting Solution revolutionises communication, clock/bell and message playback

It provides the capability to simultaneously send a multicast audio stream and text messages to any combination of Cisco IP phones, Atlas Sound IP Speakers and PCs.

With the push of a single button on the phone or a single click from a PC, a user can send a live, recorded, or scheduled broadcast to one or more paging groups.

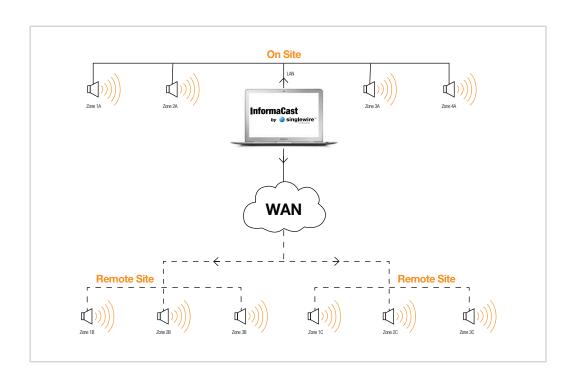
With InformaCast-compliant loudspeaker products from Atlas Sound, system designers and integrators will have the ability to deploy extremely large scale and complex paging systems over new or existing Cisco networks with the convenience of centralized administration by IT personnel.

Features of Atlas Sound IP Loudspeakers:

- · Line out and amplified out
- · Multicast support
- · Minimal delay
- Easy to install built-in test tones allow quick check of installation
- Can work with traditional high voltage wiring
- · Available in several different configurations
- Inter-operates with Cisco VoIP networks and phones and with Singleware InformaCast Broadcasting application
- Web (HTTP) interface for status and control
- · Software can be automatically upgraded for future needs

- A wireless network connection (802.11)
- PoE and non-PoE
- Synchronized clock display
- Several different speaker configurations:
 - Horns
 - Weatherproof

 - Ceiling PanelsWall Panels
- Vandal proof









I128SYS: IP-Addressable Ceiling Loudspeaker System

Features:

- Use with InformaCast software, Cisco PoE networks & Cisco IP Telephones to create extremely versatile paging and messaging systems
- Highly efficient 8" dual cone loudspeaker system provides 94 dB average SPL @ 1W/1M and is capable of 103 dB @ 1 meter via the rated power of the internal IP addressable amplifier
- 105° dispersion in the 2kHz octave band (-6 dB)
- $\bullet\,$ Wide frequency response of 86Hz \sim 8kHz (-3 dB) is perfect for speech and general messaging playback
- \bullet Built in 9W 8 $\!\Omega$ PCB amplifier / control board



Loudspeaker Specifications:

| Model: | I128SYS |
|---------------------------------|--------------------|
| Speaker Size | 8" (203mm) |
| Power Handling | 15W |
| Sensitivity (SPL @ 1W/1M) | 94dB |
| Frequency Response ¹ | 86Hz ~ 8kHz |
| Dispersion ² | 105° |
| Mounting Dimentions | 194 mm Bolt Circle |
| Diameter & Depth | 206(Ø) x 73(D) mm |
| Weight | 0.9kg |
| | |

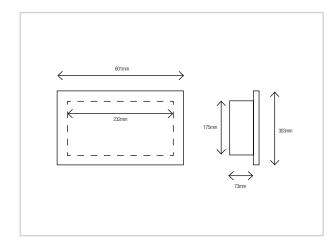
¹ Measured in recommended enclosure

Baffle Specifications:

| Model: | I128SYS |
|---|---------------------------|
| Baffle Material | 18-gauge CRS |
| Speaker Grille Material | 22-gauge Perforated Steel |
| Colour | White |
| Loudspeaker cut-out dimension | 232(W) x 175(H)mm |
| Dimentions | 601 (W) x 303 (H) mm |
| Depth (Front of Baffle to Rear of Enclosure) | 124mm |

Amplifier/Controller Specifications:

| Model: | I128SYS |
|-----------------|---|
| Power Rating | 9W RMS into 8Ω Load with 9v DC in |
| Inputs | RJ-45 Female on PCB accessable from rear of baffle |
| Outputs | 2 Wire Main ± terminated to loudspeaker |
| Power Source | Cisco IEEE 802.3AF compliant POE network switches local 12 ~ 18v DC PSU |
| Network Control | Informacast on multicast enabled networks |





Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075

² 3dB down point, 2kHz octave band







I8S: IP-Addressable Ceiling Loudspeaker System

Features:

- Use with InformaCast software, Cisco PoE networks & Cisco IP Telephones to create extremely versatile paging and messaging systems
- Highly efficient 8" dual cone loudspeaker system provides 94 dB average SPL @ 1W/1M and is capable of 103 dB @ 1 meter via the rated power of the internal IP addressable amplifier
- 105° dispersion in the 2kHz octave band (-6 dB)
- Wide frequency response of 86Hz ~ 8kHz (-3 dB) is perfect for speech and general messaging playback







| Model: | IBS |
|---------------------------------|-------------------|
| Speaker Size | 8" (203mm) |
| Power Handling | 15W |
| Sensitivity (SPL @ 1W/1M) | 94dB |
| Frequency Response ¹ | 86Hz ~ 8kHz |
| Dispersion ² | 105° |
| Weight | 0.9kg |
| Diameter & Depth | 206(Ø) x 73(D) mm |
| Mounting Dimensions | 194mm Bolt Circle |

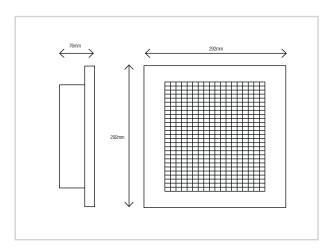
- ¹ Measured in recommended enclosure
- ² 3dB down point, 2kHz octave band

Baffle Specifications:

| Model: | I8S |
|--|--------------|
| Baffle Material | 18-gauge CRS |
| Overall Width x height | 292 x 292 mm |
| Depth (Front of Baffle to rear of speaker) | 76mm |
| Colour | White |

Amplifier/Controller Specifications:

| • | · · |
|-----------------|---|
| Model: | I8S |
| Power Rating | 9W RMS into 8Ω Load with 9v DC in |
| Inputs | RJ-45 Female on PCB accessable from rear of baffle |
| Outputs | 2 Wire Main ± terminated to loudspeaker |
| Power Source | Cisco IEEE 802.3AF compliant POE network switches local 12-18v DC PSU |
| Network Control | Informacast on multicast enabled networks |







I8SC: IP-Addressable Loudspeaker System with Clock

IBSCM: IP-Addressable Loudspeaker System with Clock & Microphone

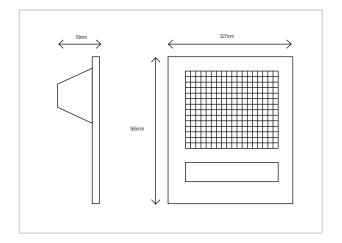
Features:

Atlas Sound

- Use with InformaCast software, Cisco PoE networks & Cisco IP Telephones to create extremely versatile paging and messaging systems
- Highly efficient 8" dual cone loudspeaker system provides 94 dB average SPL @ 1W/1M and is capable of 103dB @ 1 meter via the rated power of the internal IP addressable amplifier
- 105° dispersion in the 2kHz octave band (-6dB)
- $\bullet\,$ Wide frequency response of 86Hz \sim 8kHz (-3dB) is perfect for speech and general messaging playback
- Network controlled, high visibility red LED clock
- Built-in microphone for ½ duplex communication (I8SCM model only)







Loudspeaker Specifications:

| Model: | 18SC / 18SCM |
|---------------------------------|--------------------|
| Speaker Size | 8" (203 mm) |
| Power Handling | 15W |
| Sensitivity (SPL @ 1W/1M) | 94dB |
| Frequency Response ¹ | 86Hz ~ 8kHz |
| Dispersion ² | 105° |
| Diameter & Depth | 206(Ø) x 73(D) mm |
| Mounting Dimensions | 194 mm Bolt Circle |

- 1 Measured in recommended enclosure
- 2 3dB down point, 2kHz octave band

Baffle Specifications:

| Model: | 18SC / 18SCM |
|---|---------------------------|
| Baffle Material | 18-gauge CRS |
| Speaker Grille Material | 22-gauge Perforated Steel |
| Loudspeaker cut-out dimension | 232 x 175 mm |
| Overall Width x Height | 327(W) x 365(H) mm |
| Depth (Front of Baffle to Rear of Speaker) | 76 mm |
| Depth (Rear of Baffle to Rear of Speaker) | 71 mm |
| Colour | White |

Amplifier/Controller Specifications:

| Model: | 18SC / 18SCM |
|-----------------|---|
| Power Rating | 9W RMS into 8Ω Load with 9VDC in |
| Inputs | RJ-45 Female on PCB accessable from rear of baffle |
| Outputs | 2 Wire Main \pm terminated to loudspeaker |
| Power Source | Cisco IEEE 802.3AF compliant POE network switches local 12-18VDC PSU |
| Network Control | Informacast on multicast enabled networks |

Clock Specifications:

| Model: | 18SC / 18SCM |
|-----------------------------------|---|
| Characters | 5 |
| LEDs per character | 21 |
| Character Height | 64mm |
| Character Width | 32mm |
| Viewable clock surface dimensions | 241(W) x 64(H) mm |
| Clock Control | InformaCast on multicast enabled networks |

Microphone Specifications (I8SCM model only):

| Model: | I8SCM | |
|-----------------|--|--|
| Microphone Type | Omni directional subminiature electret condenser | |
| Diameter | 6mm | |







• IHVP: IP-Addressable Horn Loudspeaker

Features:

- Use with InformaCast software, Cisco PoE networks & Cisco IP
 Telephones to create extremely versatile paging and messaging systems
- Highly efficient APF horn loudspeaker system provides 104 dB average SPL @ 1W/1M and is capable of 113 dB @ 1 meter via the rated power of the internal IP addressable amplifier
- 95° dispersion in the 2kHz octave band (-6 dB)
- Frequency response of 700Hz ~ 5.5kHz (±5 dB) is perfect for high intelligibility speech and general messaging playback

Please Note:

Model IHVP is not designed for use outdoors or in applications where the product might be exposed to moisture or high humidity



APF-15 Loudspeaker Specifications:

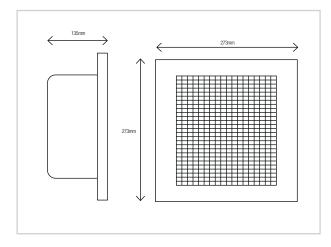
| Model: | IHVP |
|--------------------|---|
| Power Handling | 15W continuous |
| Sensitivity | 120dB at 15W (peak), 114dB at 15W / 1m (avg) 700 ~ 5.5kHz, 104dB 1W / 1m (avg) 700 ~ 5,5kHz |
| Frequency Response | 600 ~ 14,000Hz (nominal), 700 ~ 5,5kHz ±5dB |
| Dispersion | 95° (-6dB, 2000Hz octave band) |
| Finish | Grey baked epoxy |

Baffle Specifications:

| Model: | IHVP |
|-------------------------|-------------------------------------|
| Baffle Material | Cast aluminium |
| Speaker Grille Material | 22-guage perforated stainless steel |
| Overall Dimensions | 273(W) x 273(H) x 135(D) mm |
| Colour | White |

Amplifier/Controller Specifications:

| anpinion control operations. | | |
|------------------------------|---|--|
| Model: | IHVP | |
| Power Rating | 9W RMS into 8Ω Load with 9v DC in | |
| Inputs | RJ-45 Female on PCB accessable from rear of baffle | |
| Outputs | 2 Wire Main \pm terminated to loudspeaker | |
| Power Source | Cisco IEEE 802.3AF compliant POE network switches local 12-18v DC PSU | |
| Network Control | Informacast on multicast enabled networks | |





Enclosures for Atlas Sound InformaCast:

IP-Compliant Loudspeaker Systems

Features:

- Enclosures specifically designed for optimum performance and installation ease with Atlas Sound InformaCast compliant loudspeaker systems
- Choice of surface or flush models and straight or slant front styling (I8S and I8SC enclosures only)

Applications:

 Install Atlas Sound InformaCast IP loudspeaker enclosures wherever requirements call for model I8S, I8SC, I8SCM, or IHVP loudspeaker/ baffle/PCB amp control board systems. Units are particularly suited for use in classrooms, cafeterias, convention and medical facilities.

· SEA-I8S

Slanted surface-mount enclosure is designed for use only with Atlas Sound loudspeaker system models I8S & 18SM. The slope front design allows for directional sound dispersion. The enclosure is constructed of 20-gauge CRS and finished in textured white epoxy.



• SEST-I8S

Straight surface-mount enclosure is designed for use only with Atlas Sound loudspeaker system models I8S & 18SM. The unit provides an architecturally pleasing appearance with crisp lines that blend well with most building interiors. The enclosure is constructed of 20-gauge CRS and finished in textured white epoxy.



• FEST-I8S

Flush mount enclosure is designed for use only with Atlas Sound loudspeaker system models ISS & 18SM. The unit includes a slot style mounting system to accommodate most any material thickness. The enclosure is constructed of 20-gauge CRS and finished in textured white epoxy.



• SEA-I8SC

Slanted surface mount enclosure is designed for use only with Atlas Sound loudspeaker system models IBSC & IBSCM. The slope front design allows for directional sound dispersion. The enclosure is constructed of 20-gauge CRS and finished in textured white epoxy.



• SEST-I8SC

Straight surface mount enclosure is designed for use only with Atlas Sound loudspeaker system models I8SC & I8SCM. The unit provides an architecturally pleasing appearance with crisp lines that blend well with most building interiors. The enclosure is constructed of 20-gauge CRS and finished in textured white epoxy.



• FEST-I8SC

Flush mount enclosure is designed for use only with Atlas Sound loudspeaker system models I8SC & I8SCM. The unit includes a slot style mounting system to accommodate most any material thickness. The enclosure is constructed of 20-gauge CRS and finished in textured white epoxy.



• SEST-IH

Straight surface mount stainless steel enclosure is designed for use only with Atlas Sound loudspeaker system model IHVP. The enclosure is constructed of 18-gauge stainless steel and finished in textured white epoxy.



FEST-IH

Flush mount stainless steel enclosure is designed for use only with Atlas Sound loudspeaker system model IHVP. External mounting wings allow for easy installation into stud material. The enclosure is constructed of 18-gauge stainless steel.







- IPS-ZC1: Single-zone IP-Compliant System Line Level Interface
- IPS-ZC2: Two-zone IP-Compliant System Line Level Interface

For larger applications where installation of multiple IP Loudspeakers is both impractical or cost prohibitive.

Providing the same function and control of the standard InformaCast IP devices, the IPZ 1/2 interfaces to conventional high impedance amplification systems at line level, thus allowing IP control and messages to be broadcast over mass / multiple loudspeaker networks.

Ideal for warehouse, large zone, site wide distribution applications.

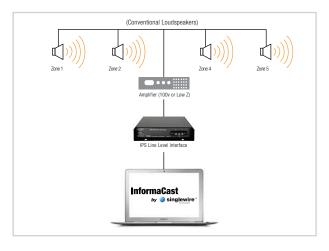
Features:

- Use with InformaCast software, Cisco POE networks & Cisco IP Telephones to create extremely versatile paging and messaging systems
- Balanced line output to drive Atlas CP, Pa or AA series amplifiers
- Modular 1RU design allows for easy rack mounting and cable access
- Systems available with single (IPS-ZC1) or dual module (IPS-ZC2) configurations





| Parameter: | Specification | Conditions / Comments | |
|--|--|---|--|
| Analog Output | Transformer balanced | 3-Pole Terminal Block | |
| Output Trim Range (Software Controlled) | +16 to -30 (Plus Mute) | ½dB steps, gain above unity is digital, attenuation below unity is analog | |
| Impedance | 600Ω | Each leg to ground | |
| Maximum Level | +23 (+24 Unloaded) dBu @ 1kHz, $2k\Omega$ load | | |
| Frequency Response | 20Hz to 20kHz ± 1dB | | |
| Dynamic Range | 105dB min | A-Weighted | |
| IM Distortion (SMPTE) | <0.01 0.01% 60Hz/7kHz, 4:1, +4dBu | | |
| Crosstalk | 100dB typ. 1kHz bandpass | | |
| Audio Convertors | 24 bit | | |
| Audio Processing | 24 bit and higher | | |
| Propagation Delay | 1.58ms min | | |
| Ethernet | 10Base-T | 10 Mb/sec, RJ-45 connector | |
| Max Cable Length | 328ft / 100 meters | Standard Ethernet Cat 5 Cable Length Limits | |
| Power Requirements | 12 ~ 18v DC | Cisco IEEE 802.3AF compliant POE switches or local 12 ~ 18VDC PSU | |
| Max Current Draw | 800mA | | |
| Construction | 18 guage CRS | | |
| Size | 483(W) x 44(H) x 209(D) mm | 1RU High with one or two modules installed | |
| Weight | 1.7kg | | |





| Amplifiers | |
|---|--------------------|
| | |
| Mixer Amplifiers | 58 ~ 67 |
| Power Amplifiers Cat5 Distributed PA System | 68 ~ 70 72 ~ 73 |
| Low Z Multi-Channel Amplifiers | 72 ~ 73 74 ~ 77 |
| Compact Stereo Amplifiers | 78 ~ 80 |
| | |

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• PA935A: 35W Mixer Amplifier

Simple, compact mixer amplifier ideal for use in smaller installations such as waiting rooms, offices, factories, educational and retail

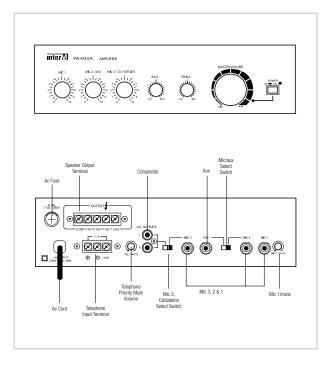
Provides clear voice and full range BGM reproduction.

Features:

- Compact design
- 1 Mic input (¼" jack)
- 2 Mic/AUX switchable (1/4" jack/stereo phono)
- Priority inputs, telephone, mic 1
- Bass/treble control
- $100v/8\Omega/4\Omega$ Low Z output option
- Optional 19" rack kit (BKT-PA935A)

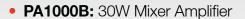






| ореонюаноно. | |
|-----------------------------|---|
| Model: | PA935A |
| Output Power | 35W RMS @ 100v 35W RMS $8\Omega/4\Omega$ |
| Inputs | 1 x Mic (¼" jack) 1 x Mic/Aux (¼" jack) 1 x Mic/Aux ~ Sat (¼" jack and stereo phono) Telephone (screw terminal) |
| Priority | Telephone, Mic 1 |
| Input Sensitivity/Impedance | Mic 1,2,3 \sim -50dB/600 Ω Aux \sim -15dB/10k Ω Sat \sim 0dB/10k Ω Telephone \sim 0.775v/600 Ω |
| Frequency Response | 80Hz ~ 15kHz |
| Power Requirement | 230v AC, 50Hz |
| Rack Height | 2U |
| Dimensions | 290(W) x 76(H) x 185(D) mm |
| Weight | 4.4kg |





Simple mixer amplifier ideal for use in reception areas, waiting rooms, factories, education, AV and retail applications.

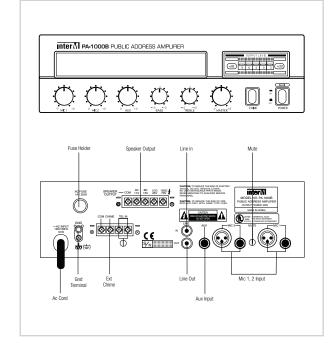
Full range frequency response makes the unit ideal for any voice or background music system.

Features:

- 2 Mic inputs (1/4" jack ~ 3 pin XLR)
- 1 AUX input (1/4" jack)
- Line in ~ line out
- Priority inputs, telephone, mic 1
- Bass and treble control
- 100v Loudspeaker output
- 4, 8Ω Low Z output option
- Remote chime option
- Optional 19" rack kit (BKT-PA1000B)
- 2U high







| Model: | PA1000B |
|-----------------------------|---|
| Output Power | 30W RMS @ 100v 30W RMS $8\Omega/4\Omega$ |
| Inputs | 1 x Mic (¼" jack and 3 pin XLR) 1 x Aux (¼" jack) 1 x Telephone (screw terminal) |
| Priority | Telephone, Mic 1 |
| Input Sensitivity/Impedance | Mic: 1, $2=$ ¼" jack~ 1mv/10k Ω Mic: 1, $2=$ 3 pin XLR~F Aux ~ 100mv/10k Ω Telephone ~ 0.775v/600 Ω |
| Frequency Response | 60Hz ~ 20KHz |
| Line In | 1v/10kΩ |
| Line Out | 1ν/600Ω |
| Power Requirement | 230v AC, 50Hz |
| Rack height | 2U |
| Dimensions | 300(W) x 88(H) x 268(D) mm |
| Weight | 4.6kg |

interM





- A60: 60W Mixer Amplifier
- A120: 120W Mixer Amplifier

This simple, economical desktop amplifier series provides a cost effective solution to basic PA and background music applications.

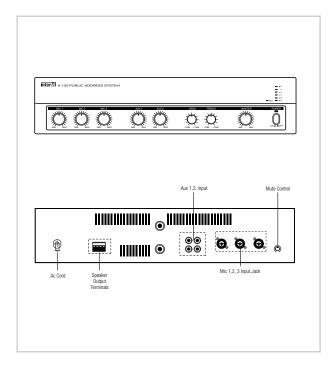
A60/A120 amplifiers are extensively used throughout the UK's leading high street and supermarket retail outlets.

Features:

- Clean, functional design
- 3 Mic inputs (combi XLR / 1/4" jack)
- 2 AUX inputs (stereo phono)
- Bass and treble control
- Priority input ~ Mic 1
- Pheonix screw terminals for loudspeaker connection
- 2U high
- Optional 19" rack (BKT-A120) (Also fits A60 Amplifier)







| Model: | A60 | A120 |
|-----------------------------|--|--|
| Output Power | 60W RMS @ 100v 60W RMS @ 4Ω | 120W RMS @ 100v 120W RMS @ 4Ω |
| Inputs | 3 x Mic (combi ¼" XLR) 3 x Mic (combi ¼" XLR) 2 x Aux (stereo phono) 2 x Aux (stereo phono) | |
| Priority | Mic 1 | Mic 1 |
| Input Sensitivity/Impedance | Mic: 1,2,3 \sim -60dB/600 Ω Aux: -10dB/10k Ω unbalanced | Mic: 1,2,3 \sim -60dB/600 Ω Aux: -10dB/10k Ω unbalanced |
| Frequency Response | 80Hz ~ 16kHz | 80Hz ~ 16kHz |
| Power Requirement | 230v AC 50Hz | 230v AC 50Hz |
| Rack Height | 2U | 2U |
| Dimensions | 420(W) x 88(H) x 320(D) mm | 420(W) x 88(H) x 320(D) mm |
| Weight | 8.9kg | 10.3kg |

Loudspeakers







MA106: 60W Compact Mixer Amplifier

Inter-M's new MA106 is a highly compact 100v line/Low Z switchable desktop amplifier for standard PA and background music applications and is ideally suited to retail installations or where space is at a

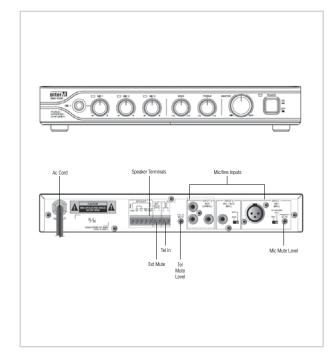
Only 1U in height and just 30cm wide, this newly-styled 60W D-class amplifier provides both power output and features beyond the expectations of a unit so small.

Features:

- · Highly compact, desktop unit
- Stylish new design
- Phantom Power to Mic Input 1
- Separate Bass and Treble tone controls
- 100v line/4 Ω switchable
- · External mute and Telephone In
- Optional 19" Rackmount Kit







| Model: | MA106 | |
|---------------------------|--|--|
| Output Power | 60W RMS @ 100v/4 Ω | |
| Inputs | 1 x balanced Mic (phono/XLR) complete with optional power 1 x balanced Mic/Aux (1/4" jack) 1 x unbalanced Aux (1/4" jack/dual phono) | |
| Priority | 1 = Tel Input, 2 = Mic 1 | |
| Frequency Response (±3dB) | 80Hz ~ 15kHz | |
| Operating Temperature | -10°C ~ +40°C | |
| Power Requirement | 230v AC, 50 ~ 60Hz | |
| Rack Height | 1U | |
| Dimensions | 300(W) x 44(H) x 230(D) mm | |
| Weight | 2.35kg | |

inter





• MA206: 60W Mixer Amplifier

• MA212: 120W Mixer Amplifier

MA224: 240W Mixer Amplifier

Utilising efficient D-class amplifier technology, the latest generation of Inter-M's market-leading range of professional installation mixer amplifiers are smaller, lighter, more feature-full and have been stylishly remodelled for today's more demanding professional audio installation market.

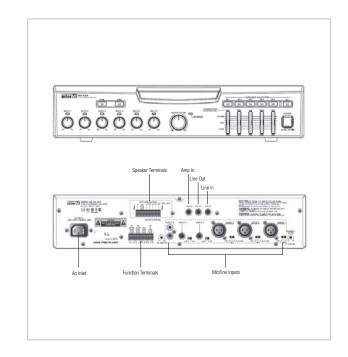
With 5 selectable speaker outputs, 6 individually-controlled mic/line inputs, 5-band equaliser and numerous other features all as standard, the new MA200 Series is ideal for user-manageable, zoned PA and background music in applications such as retail, education, corporate and church installations.

=eatures:

- 6 Mic/Line Inputs (3pin XLR / 1/4" jack / dual phono)
- Priority Mute (Tel Input & Input 1)
- Link input (1/4" jack)
- Amp In (¼" jack)
- Pre Amp Out (1/4" jack)
- Chime/Siren
- External Mute (screw terminal)
- Remote Volume Control (screw terminal)
- Telephone In (screw terminal)
- Phantom Power (Inputs 1, 2 & 3)
- 'Active' LED display per input channel
- 5 Zone + All Loudspeaker Selector
- Optional 19" Rackmount Kit







| Model: | MA206 | MA212 | MA224 |
|-----------------------------|--|--------------------|--------------------|
| Output Power | 60W RMS @ 100v/4Ω | 120W RMS @ 100v/4Ω | 240W RMS @ 100v/4Ω |
| Inputs | 3 x Mic/Line (3 pin XLR-F) 2 x Mic/Line (1/4" jack) 1 x Line (dual phono) 1 x Telephone (screw terminal) | | |
| Priority | 1 = Tel Input, 2 = Mic 1 | | |
| Input Sensitivity/Impedance | Inputs: 1 \sim 5: Mic -50dBv/2k Ω , Line -10dBv/2k Ω Input 6: -10dBv/20k Ω Telephone: 0.775dBv/10k Ω | | |
| Frequency Response (±3dB) | 80Hz ~ 15KHz | | |
| Operating Temperature | -10°C ~ +40°C | | |
| Power Requirement | 230v AC, 50Hz | | |
| Rack Height | 2U | | |
| Dimensions | 420(W) x 88(H) x 328(D) mm | | |
| Weight | 5.4kg | 6.7kg | 8.0kg |

Loudspeakers







PA2000A: 60W Mixer Amplifier

PA4000A: 120W Mixer Amplifier

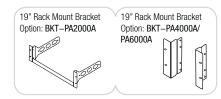
PA6000A: 240W Mixer Amplifier

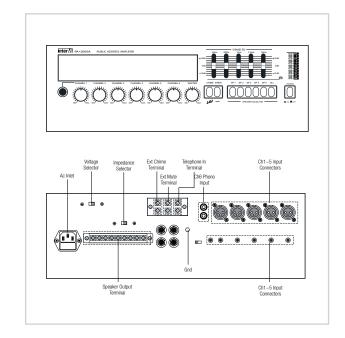
Ground-breaking amplifier series which, when released, set new standards in the industry; its outlook and host of features pushed it to the forefront of the PA, education, AV and church markets, where it remains today!

Features:

- 6 Inputs (5 x 3 pin XLR, 1 x stereo phono)
- Telephone input (screw terminals)
- Priority-telephone, mic 1, mic 2
- 5 Band graphic equaliser
- Line in
- Line out
- 5 Zone speaker selection
- Chime & Siren
- External mute terminal
- Bar graph LED output VU meter
- Optional 19" rack kits (BKT-PA2000A, BKT-PA4000A)







| Model: | PA2000A | PA4000A | PA6000A |
|-----------------------------|--|--|--|
| Output Power | 60W RMS @ 100v 60W RMS @ 4 Ω /8 Ω | 120W RMS @ 100v 120W RMS @ 4Ω/8Ω | 240W RMS @ 100v 240W RMS @ 4 Ω /8 Ω |
| Inputs | 5 x Mic/line (3 pin XLR~F) 1 x Mic/Aux (stereo phono) 1 x Telephone (screw terminal) | 5 x Mic/line (3 pin XLR~F) 1 x Mic/Aux (stereo phono) 1 x Telephone (screw terminal) | 5 x Mic/line (3 pin XLR~F) 1 x Mic/Aux (stereo phono) 1 x Telephone (screw terminal) |
| Priority | Telephone, Mic 1, Mic 2 | Telephone, Mic 1, Mic 2 | Telephone, Mic 1, Mic 2 |
| Input Sensitivity/Impedance | Inputs 1 \sim 6: 1mv / 10k Ω Telephone -2dB/600 Ω | Inputs 1 \sim 6: 1mv / 10k Ω Telephone -2dB/600 Ω | Inputs 1 \sim 6: 1mv / 10k Ω Telephone -2dB/600 Ω |
| Frequency Response | 60Hz ~ 20KHz | 60Hz ~ 20KHz | 60Hz ~ 20KHz |
| Link in/out | In: 0dB, 47 k Ω Out: -6dB, 600Ω | In: 0dB, 47 k Ω Out: -6dB, 600Ω | In: 0dB, 47 k Ω Out: -6dB, 600Ω |
| Power Requirement | 230v AC, 50Hz | 230v AC, 50Hz | 230v AC, 50Hz |
| Rack Height | 2U | 2U | 2U |
| Dimensions | 420(W) x 100(H) x 320(D) mm | 420(W) x 133(H) x 320(D) mm | 420(W) x 133(H) x 320(D) mm |
| Weight | 10kg | 12kg | 13.5kg |

ınter





PAM120A: 120W Modular Mixer Amplifier

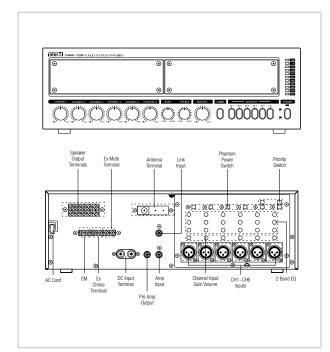
Best selling mixer amplifier providing a versatile and flexible solution for many applications including AV, church and high end retail

Optional music modules add to the outstanding features of this market-leading product (see page 66 for details).

- 6 Mic/line inputs (3 Pin XLR)
- 2 Module option slots
- Link input (1/4" jack)
- Amp in (1/4" jack)
- Pre amp out (1/4" jack)
- External chime (screw terminal)
- External mute (screw terminal)
- Individual EQ per input channel
- Individual phantom power (per mic input)
- Priority mic 1, mic 2 (switchable)
- 5 Zone loudspeaker selector
- Bar graph VU metre
- 230v AC/24v DC powered
- Optional 19" rack kit (BKT-PAM)
- 3U high



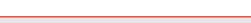




| Model: | PAM120A |
|-----------------------------|---|
| Output Power | 120W RMS @ 100v |
| Inputs | 6 x Mic/line (3 pin XLR) |
| Priority | Mic 1, Mic 2 |
| Phantom Power | 22v DC individually switched per input |
| Input Sensitivity/Impedance | Inputs: 1 \sim 6 -60dB \sim 16dB 1mv/10k Ω |
| Frequency Response | 80Hz ~ 20kHz |
| Link In | 100mv/10kΩ |
| Amp In | 1ν/600Ω |
| Power Requirement | 230v AC, 50Hz, 24v DC |
| Rack Height | 3U |
| Dimensions | 420(W) x 132(H) x 360(D) mm |
| Weight | 13kg |

Loudspeakers





PAM340A: 340W Modular Mixer Amplifier PAM480A: 480W Modular Mixer Amplifier

Larger power/output versions of the PAM120A, however with a number of subtle differences;

No 24v DC power option, no low impedance 4Ω loudspeaker option, but with the addition of a multi-zone paging mic interface allowing simple 5 zone paging using optional RM-05A (see page 66 for details).

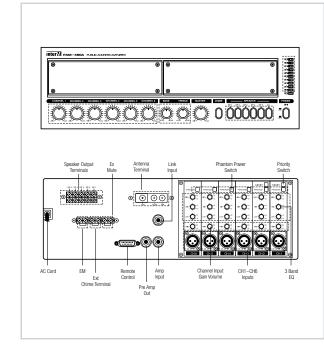
Features:

inter

- 6 Mic/line inputs (3 pin XLR)
- 2 Module option slots
- Link input (¼" jack)
- Amp input (1/4" jack)
- Pre amp out (1/4" jack)
- External chime (screw terminal)
- Zone mic interface (15 pin D-type)
- External mute (screw terminal)
- Individual EQ per input channel
- Individual phantom power (per mic input)
- Priority mic 1, mic 2 (switchable)
- 5 Zone loudspeaker selector
- Bar graph VU metre
- Optional 19" rack kit (BKT-PAM)
- 3U high







| Model: | PAM340A | PAM480A |
|-----------------------------|--|--|
| Output Power | 340W RMS @ 100v | 480W RMS @ 100v |
| Inputs | 6 x Mic/Line (3 pin XLR) | 6 x Mic/Line (3 pin XLR) |
| Priority | Mic 1, Mic 2 | Mic 1, Mic 2 |
| Phantom Power | 22v DC individually switched per input channel | 22v DC individually switched per input channel |
| Input Sensitivity/Impedance | Inputs: 1 \sim 6 -60dB \sim -16dB 1mv/10k Ω | Inputs: 1 \sim 6 -60dB \sim -16dB 1mv/10k Ω |
| Frequency Response | 80Hz ~ 20kHz | 80Hz ~ 20kHz |
| Power Requirement | 230v AC 50Hz | 230v AC 50Hz |
| Rack Height | 3U | 3U |
| Dimensions | 420(W) x 132(H) x 360(D) mm | 420(W) x 132(H) x 360(D) mm |
| Weight | 13.5kg | 15.5kg |

interM



PAM-MPM4: CD/USB/MP3 Player and Tuner Module for PAM Series (

eatures:

- CD/USB/DRP (Digital Record and Playback : SD Memory)
- CD+USB, DRP (SD Memory) Portable FM Tuner
- CD Long-Life Function
- CD Copy Function (CD \rightarrow USB or DRP)
- USB Hosting Function (USB ↔ DRP)
- FM 30 Memories



• PAM-CDM: CD/MP3 Player Module for PAM Series

Features:

- Single Compact Disc Player
- Random play funtion, music scan, time counter, repeat, forward track, reverse track, music search, play and pause
- CD-DA / CD-R / CD-RW / MP3 / WMA Player



• PAM-T: Tuner Module for PAM Series

Features:

- AM/FM Digital Tuner with 30 station memory
- It is recommended that an external antenna is fitted for optimum performance



• RM-05A: Remote 5 Zone Microphone

The RM-05A operates exclusively with the PAM-340A/480A and PCT-610/620 amplifiers and provides the facility of a simple 'one cable' multi-zone solution. The paging unit also includes output level LED VU metre, gain/level control and chime facility.

Power is provided by the host amplifier.

eatures:

- Individual channel selection or all-call
- Flexible condenser-type gooseneck microphone
- Pre-announcement chime
- LED output level indicator





Loudspeakers







- PCT-610: 120W Integrated Mixer Amplifier
- PCT-620: 240W Integrated Mixer Amplifier

Fully integrated mixer amplifiers incorporating mic/line inputs with in-built Tuner and CD music sources.

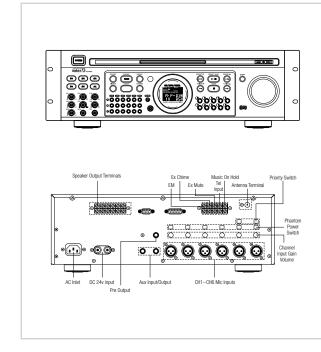
With a whole host of functions, the PCT Series is ideal for high specification PA systems, church and AV applications using the RS232 control option for remote access and control.

Features:

- 120/240W Output
- 6 Inputs (Mic/Line XLR)
- Individual phantom power per input
- Priority mic 1, mic 2
- Telephone input (screw terminals)
- External mute (screw terminals)
- External chime (screw terminals)
- RM-05A Mic input (D-type) (see page 66 for details)
- RS232 Control (D-type)
- 230v AC/24v DC powered
- Aux in/out (¼" jack)
- In-built CD and tuner music sources
- IR Remote control (optional)
- 3U high, 19" rack mounting







| Model: | PCT-610 | PCT-620 |
|-----------------------------|---|---|
| Output Power | 120W RMS @ 100v | 240W RMS @ 100v |
| Inputs | 6 x Mic/Line Selectable (3 pin XLR) | 6 x Mic/Line Selectable (3 pin XLR) |
| Priority | Mic 1, Mic 2, Chime, EM, Telephone Input | Mic 1, Mic 2, Chime, EM, Telephone Input |
| Phantom Power | Individually switched per input | Individually switched per input |
| Input Sensitivity/Impedance | Inputs 1~6 -60dB~-16dB 1mv/10kΩ | Inputs 1~6 -60dB~-16dB 1 mv/10k Ω |
| Frequency Response | 80Hz ~ 20kHz | 80Hz ~ 20kHz |
| Link In | 100mv/10kΩ | 100 mv/ 10 k Ω |
| Amp In | 1v, 47kΩ | 1v, 47kΩ |
| Pre Amp Out | 1v, 600Ω | 1v, 600Ω |
| Power Requirement | 230v AC, 50Hz, 24v DC | 230v AC, 50Hz, 24v DC |
| Rack Height | 3U | 3U |
| Dimensions | 482(W) x 132(H) x 380(D) mm | 482(W) x 132(H) x 380(D) mm |
| Weight | 8.5kg | 9.5kg |

inter



- PA9312: 120W Power Amplifier
- PA9336: 360W Power Amplifier
- PA9348: 480W Power Amplifier

For installations which require pure power, the Inter-M PA9000 Series of power amplifiers are reliable, robust work horses.

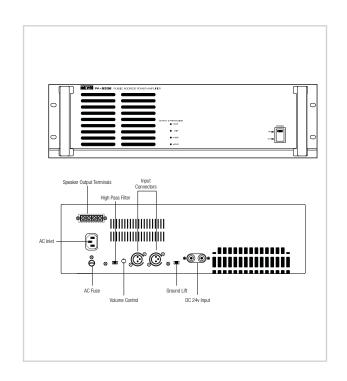
Units can be mains or DC powered so can easily operate in a critical system or in event/hire applications using battery power.

Connections and controls are rear panel mounted to deter tampering or accidental adjustment.

Features:

- 120W/360W/480W Output power (100v and $4\Omega^{\star}/$ $8\Omega)$
- Audio/line in (3 pin XLR)
- Audio/line out (3 pin XLR)
- Input level control (on rear)
- · Ground lift and HPF switches
- Fan cooled
- Thermal protection circuit
- DC power terminals
- 3U high, 19" rack mounting
- * PA9312 only has 4Ω low Z output. PA9336 / PA9348 have 4Ω and 8Ω options.





| Model: | PA9312 | PA9336 | PA9348 |
|------------------------------|-------------------------------|------------------------------|----------------------------------|
| Output Power | 120W RMS @ 100v and 4Ω | 360W RMS @ 100v and 4, 8Ω | 480W RMS @ 100v and 4, 8Ω |
| Input Sensitivity/Impedance | 1v/10kΩ | 1v/10kΩ | 1v/10kΩ |
| Output Sensitivity/Impedance | 1v/10kΩ | 1v/10kΩ | 1v/10kΩ |
| Frequency Response | 70Hz ~ 18kHz | 70Hz ~ 18kHz | 70Hz ~ 18kHz |
| Power Requirement | 230v AC, 50Hz, 24v DC | 230v AC, 50Hz, 24v DC | 230v AC, 50Hz, 24v DC |
| Rack Height | 3U | 3U | 3U |
| Dimensions | 482(W) x 132(H) x 280(D) mm | 482(W) x 132(H) x 280(D) mm | 482(W) x 132(H) x 280(D) mm |
| Weight | 14kg | 21kg | 22kg |





PA2312: 2 x 120W Dual Channel Power Amplifier

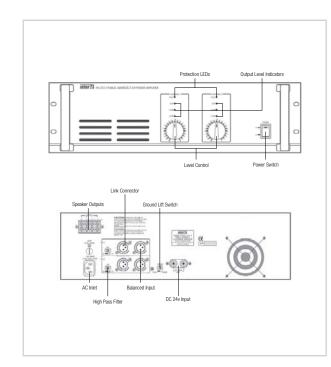
A reliable dual-channel 100v line power amplifier for PA systems requiring 2 zones, or for space-saving integration into multi-zone rack builds.

The PA9312 can be mains or DC powered and will also operate, therefore, in critical system or portable event/hire applications using battery power.

Features:

- 2 x independent 120W output power
- 2 x XLR Balanced inputs
- 2 x Link outputs
- Thermal protection circuit
- · High pass filter
- Fan cooled
- Ground lift switch
- 230v AC/24v DC powered
- 3U high, 19" rack mounting





Specifications:

| Model: | PA2312: |
|---------------------------------|-----------------------------|
| Output Power (THD 1%) | 2 x 120W, 100v/28Ω |
| Frequency Response (+1/-3dB) | 70Hz ~ 18kHz |
| THD at 1KHz Rated Output | Less than 1% |
| HPF | 6dB/Oct at 400Hz |
| Signal to Noise Ratio | Better than 95dB |
| Input Sensitivity/Impedance | 1v/10kΩ Balanced |
| Power Source | 230v AC, 24v DC, 50Hz |
| Pack Height | 3U |
| Dimensions | 482(W) x 132(H) x 280(D) mm |
| Weight | 20kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075

inter



DPA-430H: 4 Channel 100v Line Power Amplifier (4 x 300W)

An ideal 100v line installation amplifier for applications where space is at a premium and for systems with multiple zones or requiring individual level control of each loudspeaker group.

The DPA-430H can operate as 4 individual channels or 2 $\rm x$ bridged channel amplifiers.

Featuring thermal, DC and overdrive protection, this powerful 4 x 300W amplifier is contained in a highly compact 1U 19" rack mounting

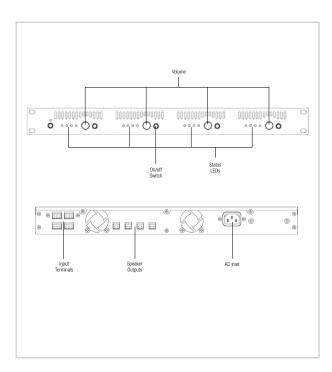
Features:

- 4 x independent 300W output power
- 4 x Balanced inputs on phoenix connectors
- Thermal protection circuit
- High pass filter
- Fan cooled
- Individual volume and trim (internal) control per channel
- 1U high, 19" rack mounting



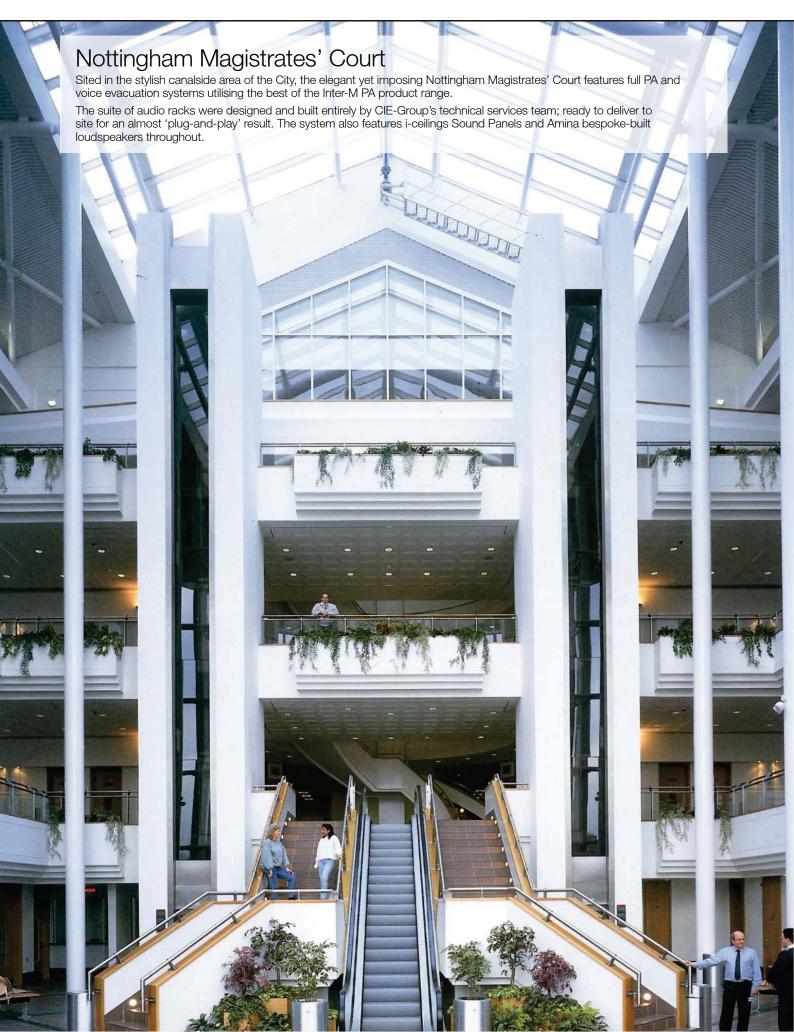
Ideal for use in conjunction with PX8000 Audio Matrix (see page 85)





| opeomediene. | | |
|---|--|--|
| Model: | DPA-430H: | |
| Inputs | 300W x 4 channels | |
| Output Voltage/Impedance | 100v/33.3Ω | |
| T.H.D (AES17) - Prated (300W, 1kHz) - 1/3 Prated (100W, 1kHz) | Less than 0.1% Less than 0.03% | |
| High Frequency Response (+1, -3dB) | More than 20kHz | |
| High Frequency Response | High Pass Filter Off (-3dB ±2dB): 65Hz High Pass Filter On (-3dB ±2dB): 400Hz | |
| S/N (20kHz LPF, A-WTD) | Better than 100dB | |
| Input Sensitivity/Impedance | 1v/10kΩ Balanced | |
| Operating Temperature | -10° ~ +40°C | |
| Power Source | 220 ~ 240v AC, 50/60Hz | |
| Power Consumption | 250W | |
| Rack Height | 1U | |
| Dimensions | 482(W) x 44(H) x 420(D) mm | |
| Weight | 9.6kg | |









Inter-M IPC System

'One of the most advanced, user-friendly paging and BGM systems that has ever been made to a realistic budget...'

Ideal for campus environments, the digital IPC System from Inter-M provides a highly functional, fully flexible, programmable means of broadcasting paging announcements, messages, class change and media files over a multi-zone site.

The IPC can be configured to operate as a standard centralised system, with all areas/zones wired back to a single point/location. However, the IPC comes into its own when installed as a distributed or de-centralised system, improving flexibility and reducing expensive wiring costs.

Features:

- · Cat-X wiring structure
- 8 channel Matrix
- Easy to use Touch Screen Interface
- · Up to 128 independent zone capability
- Fully programmable

- · In-built Digital File Player and Scheduler
- Compact Multi-channel Digital Amplifiers
- · Optional Remote Console options
- Stable, embedded Windows-XP platform
- Remote control, broadcasting & monitoring via standard Ethernet network

• SI-100: System Integration Main Controller

- 8 x MIC/Line Inputs
- Linkable with SR-100 Remote MIC Station (up to 8 x SR-100 Connections)
- USB Port built-in for external memory interface
- 16 x Contact input circuits for emergency broadcasting
- · Audio matrix function
- AMX/Creston port for external source equipment (CD/Tuner, etc) control
- Weekly program timer/scheduler function



• SM-100: System Monitor

- 15" LCD and Touch Screen Monitor Panel
- Emergency MIC on front panel with cover
- Built-in Loudspeaker for monitoring input source and output signals to zones



Specifications:

| Model: | SI-100: |
|--|--|
| Input Sensitivity (±3dB) | BGM XLR MIC: -50dB/600 Ω BGM Phone MIC: -20dB/20k Ω |
| Frequency Response | 100Hz~15kHz |
| T.H.D | 1.0% |
| S/N (20kHz LPF, BGM XLR MIC AUX, CD/MP3/AC97) | 65dB |
| BGM AUX | -10dB/20kΩ |
| CDP/MP3/AC97 | 0dB/10kΩ |

| Specifications: | | |
|--------------------------------------|------------------------------------|--|
| Model: | SP-100: | |
| Link Input | Load Output: @1kHz, 166.7 Ω | |
| Rated Power (THD ≤ 1%, 20kHz LPF) | 60W | |
| Input Level | 0dBv | |
| S/N (20kHz LPF, A-WTD) | More than 80dB | |
| Frequency Response (±3dB) | 100Hz ~ 15kHz | |
| Model: | SR-100: | |
| Input sensitivity/impedance | -60dB/Balanced Input | |



SP-100: 60W System Digital Amplifier

• 6 channel digital amplifier

inter

- 6-bus broadcasting available via Cat5e connection
- Volume Control per channel and 5 band EQ
- Local input facility (Mic in or Aux in)
- AUTO/Manual I.D. allocation
- Interface with other units using control input and control output contacts

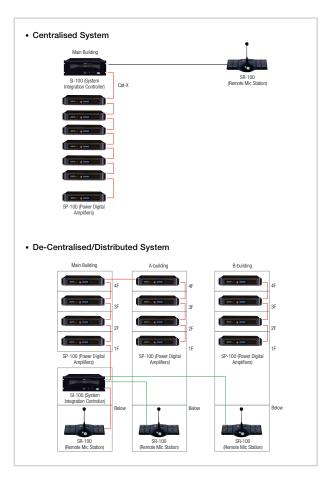


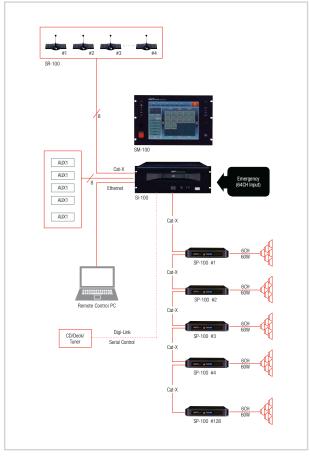
• SR-100: System Remote Mic Station

• SR-100KP: 12-Key Mic Station Keypad

- MIC/AUX/Speaker volume adjustable
- Simple interface via Cat-X connection
- One-touch broadcasting function using the [TALK] button
- Internal loudspeaker for BGM/Zone monitoring
- Expansion of zones using SR-100KP Expansion Keypad







inter



- R150 PLUS: 2 x 75W Stereo Reference Amplifier
- R300 PLUS: 2 x 150W Stereo Reference Amplifier
- **R500 PLUS:** 2 x 250W Stereo Reference Amplifier

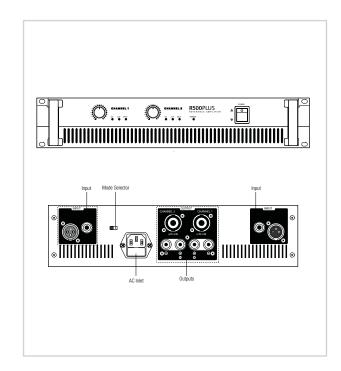
A series of 2 channel, convection-cooled (no fans) low impedance amplifiers.

The units are ideal for 'silent' systems in church, audio visual and recording studios, etc. Simple controls and visual clip/signal/protection LEDs complete a versatile, cost effective package.

Features:

- · Convection cooled
- Stereo operation (4/8Ω)
- Bridged mono operation (8 Ω)
- Inputs (XLR~¼" jack)
- Outputs (speakon~binding posts)
- Mains powered
- 2U high, 19" rack mounting





| Model: | R150 PLUS | R300 PLUS | R500 PLUS |
|---------------------------|-------------------------------------|----------------------------|----------------------------|
| Output Power/Per Channel | 50W @ 8 Ω , 75W @ 4 Ω | 100W @ 8Ω, 150W @ 4Ω | 160W @ 8Ω, 250W @ 4Ω |
| Output Power/Bridged Mono | 150W @ 8Ω | 300W @ 8Ω | 500W @ 8Ω |
| Input/Sensitivity | 0dB/0.775mv | 0dB/0.775mv | 0dB/0.775mv |
| Frequency Response | 20Hz ~ 20kHz | 20Hz ~ 20kHz | 20Hz ~ 20kHz |
| Power Requirement | 230v AC, 50Hz | 230v AC, 50Hz | 230v AC, 50Hz |
| Rack Height | 2U | 2U | 2U |
| Dimensions | 482(W) x 88(H) x 317(D) mm | 482(W) x 88(H) x 317(D) mm | 482(W) x 88(H) x 317(D) mm |
| Weight | 7.2kg | 8.4kg | 10.4kg |

Loudspeakers



- **V1000:** 2 x 340W Professional Low Z Amplifier
- V2000: 2 x 550W Professional Low Z Amplifier
- V3000: 2 x 1000W Professional Low Z Amplifier
- V4000: 2 x 1300W Professional Low Z Amplifier

High quality professional power amplifiers ideal for most low impedance systems and applications.

Combining compact size with power and flexibility, the V Series will operate down to 2Ω , and is further enhanced with comprehensive protection circuits for over-driving, DC and short circuit, as well as variable fan cooling.

Features:

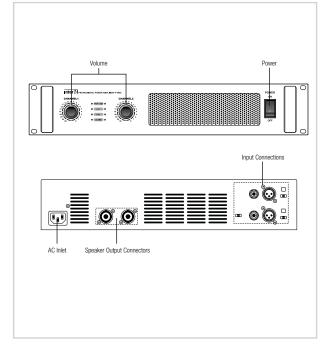
· Variable fan cooling

inter

- Comprehensive protection circuits
- \bullet Low impedance output (2/4/8 Ω)
- Bridge mono option
- Balanced inputs (XLR~1/4" jack)
- Outputs (speakon~binding post)
- Mains powered
- 2U high, 19" rack mounting







| Model: | | V1000 | V2000 | V3000 | V4000 |
|---|----------------------------------|--|--|--|--|
| Continuous average output powe per channel | r | 180W | 300W | 550W | 750W |
| STEREO mode (1kHz, both channels driven) | 4Ω: 2Ω: | 340W 600W | 550W 900W | 1000W 1650W | 1300W 2100W |
| Bridged Mono Mode | (THD 0.1%) 8Ω: (THD 0.5%) 4Ω: | 700W 1200W | 1100W 1900W | 2000W 3300W | 2600W 4200W |
| Input Sensitivity (Rated output po | wer @ 4Ω) | 1v | 1v | 0.94v | 1.04v |
| Frequency Response (1W @ 8Ω) |) | 20Hz ~ 20kHz: ±0.3dB |
| Signal to Noise Ratio (Rated outp | ut power 8Ω) | 107dB | 107dB | 105dB | 106dB |
| Input Impedance | | 12kΩ Balanced | 12kΩ Balanced | 12kΩ Balanced | 12kΩ Balanced |
| Indicators | | Active, Clip/Port | Active, Clip/Port | Active, Clip/Port | Active, Clip/Port |
| Protection Circuitry | | Full Short Circuit, Thermal Protection, Power ON/OFF Muting, DC Output Protection | Full Short Circuit, Thermal Protection, Power ON/OFF Muting, DC Output Protection | Full Short Circuit, Thermal Protection, Power ON/OFF Muting, DC Output Protection | Full Short Circuit, Thermal Protection, Power ON/OFF Muting, DC Output Protection |
| Cooling | | Variable Speed Fans, front to rear air flow |
| Power Source | | 230v AC, 50Hz | 230v AC, 50Hz | 230v AC, 50Hz | 230v AC, 50Hz |
| Rack Height | | 2U | 2U | 2U | 2U |
| Dimensions | | 482(W) x 88(H) x 407(D) mm |
| Weight | | 10.3kg | 10.5kg | 11.7kg | 11.8kg |

inter



- QD-4240: 4 Channel Low Z Amplifier (4 x 60W)
- QD-4480: 4 Channel Low Z Amplifier (4 x 120W)
- QD-4960: 4 Channel Low Z Amplifier (4 x 240W)

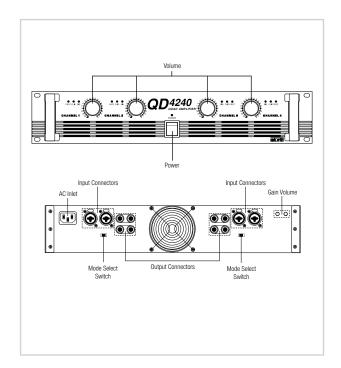
Ideal products if space is a premium, or if the system requires multiple zones or individual control of loudspeakers. Units can operate as 4 individual channels or as 2 stereo (2 channel) amplifiers.

Features include delayed switch-on function, protection circuits for overdrive, overheating and DC detection, as well as variable speed fan cooling, all in a compact 2U enclosure.

Features:

- 8Ω or 4Ω low impedance
- Fan cooled (variable speed)
- Inputs (XLR~¼" jack)
- Outputs (Binding post)
- LED indicators for clip/protection/signal
- Mains powered
- 2U high, 19" rack mounting
- 100v via optional OT Series Transformer Converters





| Model: | QD-4240 | QD-4480 | QD-4960 |
|---------------------------|--|----------------------------|----------------------------|
| Output Power Per Channel | $40 \text{W} @ 8\Omega, 60 \text{W} @ 4\Omega$ | 80W @ 8Ω, 120W @ 4Ω | 170W @ 8Ω, 240W @ 4Ω |
| Output Power Bridged Mono | 120W @8 Ω | 240W @ 8Ω | 480W @ 8Ω |
| Input/Sensitivity | 0dBm/20kΩ Balanced | 0dBm/20kΩ Balanced | 0dBm/20kΩ Balanced |
| Frequency Response | 20Hz ~ 50kHz | 20Hz ~ 50kHz | 20Hz ~ 50kHz |
| Power Requirement | 230v AC, 50Hz | 230v AC, 50Hz | 230v AC, 50Hz |
| Rack Height | 2U | 2U | 2U |
| Dimensions | 482(W) x 88(H) x 369(D) mm | 482(W) x 88(H) x 369(D) mm | 482(W) x 88(H) x 369(D) mm |
| Weight | 11.5kg | 15.5kg | 17kg |

Loudspeakers



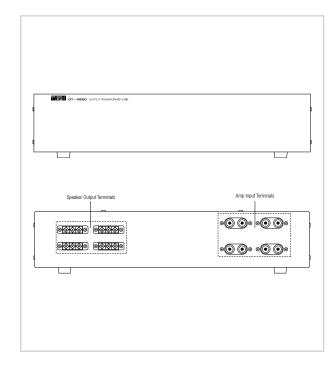
- **OT-4240:** Transformer Converter for QD-4240 Amplifier
- OT-4480: Transformer Converter for QD-4480 Amplifier
- OT-4960: Transformer Converter for QD-4960 Amplifier

Useful accessory for converting the 4 channel QD Series to power 100v line loudspeakers, offering space-saving benefits for amplifier systems with multiple loudspeakers or zones with small quantities of speakers.

Features:

- 4 x 100v Transformers
- Inputs (binding posts)
- Outputs (screw terminals)
- 2U high, rack mounting





| Model: | 0T-4240 | 0T-4480 | 0T-4960 |
|--------------------------|--|----------------------------|-----------------------------|
| Output Power/Per Channel | $60\text{W }100\text{v} / 166.7\Omega$ | 120W 100v / 83.3Ω | 240W 100v / 41.6Ω |
| Input Power/Impedance | 60W @ 4Ω | 120W @ 4Ω | 240W @ 4Ω |
| Dimensions | 482(W) x 88(H) x 310(D) mm | 482(W) x 88(H) x 310(D) mm | 482(W) x 132(H) x 310(D) mm |
| Weight | 11.5kg | 14.5kg | 21.5kg |





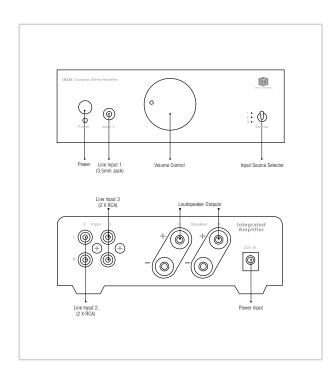
• IA235: 2 x 35W Compact Stereo Amplifier

New to the Clever Little Box range, this stylish, ultra-compact 35W stereo amplifier is ideal for AV sound reinforcement applications such as boardrooms, classrooms and training/presentation suites.

Features:

- 2 x 35W Low Z outputs @ 4Ω
- Stylish, ultra-compact housing for stand-alone or AV cabinet/PC tower integration
- 3 x Input sources;
 Front 3.5mm stereo jack
 Rear 2 x dual phonos
- Input source selection switch on front facia





| • | |
|--------------------|--------------------------------------|
| Model: | IA235 |
| Output Power | 2 x 35W RMS @ 4Ω |
| Line Inputs | Stereo 3.5mm jack 2 x Dual Phonos |
| Frequency Response | 20Hz ~ 20kHz |
| Input Sensitivity | 220mv (±20) |
| Dimensions | 140(W) x 48(H) x 160(D) mm |





AVID: In-wall Amplifier System

Stylish, but discreet 2 x 12W stereo amplifier for wall or dado conduit mounting. An ideal solution for AV and single-room voice or sound reinforcement applications.

Features:

- Stereo amplifier fitted to UK 2-gang Wallplate
- New higher power 2 x 12W output (RMS)
- 3 x Input Sources; Stereo Phono, 3.5mm Stereo Jack (Jack has priority) and Wired Input Terminal (on rear PCB)
- Line Level Sensitivity Switch
- Control of ON/OFF and volume via illuminated push buttons located on the
- Infrared remote control of ON/OFF, volume, balance and tone facilities (supplied as standard)
- Clear LED level indicator / setting status display
- Screw terminations on the rear of the unit for loudspeakers, power and
- Separate loudspeaker balance adjustment to allow system set up (control located on rear of unit)
- Includes Plugtop Power Supply
- · Also includes Wallmounted Bracket for remote control







Also available as complete systems:



AVID SYSTEM W: Featuring 2 x 15W, 8Ω wallmount loudspeakers.



AVID SYSTEM C: Featuring 2 x 6W, 8Ω ceiling loudspeakers.

| Model: | AVID |
|--------------------|---|
| Output Power | 2 x 12W RMS @ 8Ω |
| Line Inputs | Stereo Phonos (L. & R) Stereo 3.5mm Jack (priority) Screw Terminal (Rear PCB in parallel with 3.5mm Jack Input) |
| Frequency Response | 40Hz ~ 20KHz |
| Input Sensitivity | 200mv/1v |
| Power Requirements | 24v DC, 1.25A |
| Dimensions | 165(W) x 100(H) x 35(D) mm |
| Weight | 0.26kg |







CA9.2: Compact 12W Stereo Power Amplifier

This compact, lightweight but robust stereo amplifier is an ideal 'component' unit for machines requiring high quality sound reinforcement.

Features:

- Ideal for use in gaming, vending and gambling machines
- Switchable high pass/low pass/full range
- Stereo input via phono sockets
- Optional 230v power supply available
- Supplied with 12v power lead and speaker leads, both terminated with connector blocks





Specifications:

| Model: | CA9.2 |
|-----------------------|---------------------------|
| Output Power | 2 x 12W RMS @ 4Ω |
| Signal to Noise Ratio | 87dB @ 1kHz |
| Sensitivity | ±3dBU, 550mv |
| Frequency Range | 20Hz ~ 20KHz |
| Input Impedance (RCA) | 1.5kΩ |
| Crossover Point | 150Hz |
| Power | 4A @ 12v DC |
| Dimensions | 80(W) x 48(H) x 112(D) mm |
| Weight | 0.3kg |

CA9.4: Compact 4 Channel 12W Power Amplifier

This compact and lightweight, but robust 4 channel amplifier is an ideal 'component' unit for machines requiring high quality sound reinforcement.

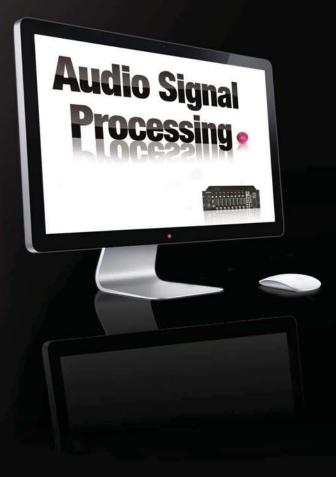
Features:

- Ideal for use in gaming, vending and gambling machines
- Switchable high pass/low pass/full range
- Stereo input via phono sockets
- 2 x level controls
- Optional 230v power supply available
- Supplied with 12v power lead and speaker leads, both terminated with connector blocks





| Model: | CA9.4 |
|-----------------------|---------------------------|
| Output Power | 4 x 12W RMS @ 4Ω |
| Signal to Noise Ratio | 87dB @ 1kHz |
| Sensitivity | ±3dBU, 550mv |
| Frequency Range | 20Hz ~ 20KHz |
| Input Impedance (RCA) | 1kΩ |
| Crossover Point | 150Hz |
| Power | 5A @ 12v DC |
| Dimensions | 80(W) x 48(H) x 140(D) mm |
| Weight | 0.38kg |



| MIXEL LE VIII DIII 1019 | 02 - 04 |
|--------------------------------------|---------|
| Audio Matrix | 85 |
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| Microphone Mixers / Input Mainframes | 92 ~ 94 |

Audio System Tools

inter

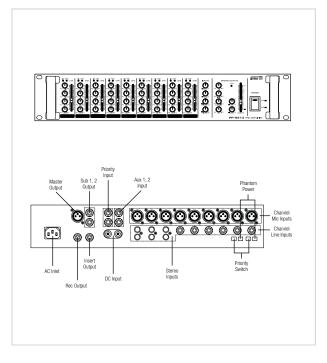
• PP9213: Mixer Pre-Amplifier

Comprehensive mixer pre-amplifier unit providing 12 inputs and outputs.

Ideal for multi-input applications such as church, conference, audio visual and complex PA systems where maximum system control is required.

Features:

- 9 x Mic inputs (XLR)
- 6 x Line mono (1/4" jack)
- 3 x Line stereo (2 x 1/4" jack)
- Line out (XLR~M)
- Sub 1, 2 out (1/4" jack)
- Record out (¼" jack)
- Phantom power, inputs 1 & 2 (18v)
- Trim control per input
- EQ control per input
- Input/output level via fader
- EQ control of output
- 24v DC Terminal (binding post)
- 2U high, 19" rack mounting



| specifications. | |
|---|--|
| Model: | PP9213 |
| Inputs | 9 Mic (XLP) 6 Mono Line (¼ " Jack) 3 Stereo Line (2 x ¼" Jack) |
| Input Sensitivity/Impedance | Mic: -60 dB/ 600Ω Line: -30 dB/ 10 k Ω |
| Output Sensitivity/ Impedance Master | $+4 dBm/600\Omega$ Balanced |
| Sub Outs | $+4dBm/600\Omega$ Balanced |
| Rec Out | -10dB/10kΩ |
| Phantom Power | Mic: 1, 2 ~ 18v DC |
| Frequency Response | 20Hz ~ 20kHz |
| Power Requirement | 230v AC, 50Hz/24v DC |
| Rack Height | 2U |
| Dimensions | 482(W) x 88(H) x 280(D) mm |
| Weight | 5kg |



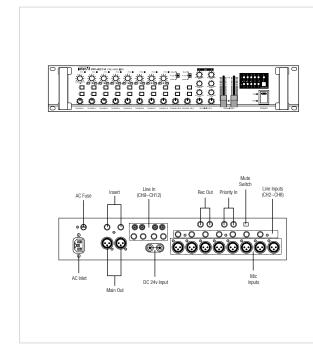
PP9214: Mixer Pre-Amplifier

Two output pre-amplifier allowing any of the 10 input signals to be routed to either Output 1, Output 2 or both.

Ideal for dual zone applications in factories, leisure centres, hotels and general PA installations.

Features:

- 8 Mic inputs (XLR)
- 8 Line inputs (¼" jack)
- 2 Stereo inputs (phono/1/4" jack)
- 2 Outputs (XLR)
- Phantom power (18v block switched)
- Record output (2 x 1/4" jack)
- Priority, mic 1, priority input 1, priority input 2
- 3 Band EQ per output
- Signal allocation per input channel
- 24v DC powered option
- 2U high, 19" rack mounting



| Model: | PP9214 |
|---|--|
| Inputs | 8 Mic (XLP) 8 Mono Line (¼" Jack) 2 Stereo Line (2 x ¼" Jack / 2 x Stereo Phono) |
| Input Sensitivity/Impedance | Mic: -60dB/600 Ω Balanced Line: -30dB/10k Ω Balanced |
| Stereo | +4dB, -10dB, -20dB/10k Ω Unbalanced |
| Output Sensitivity/ Impedance Master | $+4dBm/600\Omega$ Balanced |
| Rec Out | -6dB/10kΩ |
| Phantom Power | Mic: 1~8: 18v DC, Block Switched |
| Frequency Response | 20Hz ~ 20kHz |
| Power Requirement | 230v AC, 50Hz/24v DC |
| Rack Height | 2U |
| Dimensions | 482(W) x 88(H) x 280(D) mm |
| Weight | 12.8kg |





M12X4 Pre Amplifier Mixer

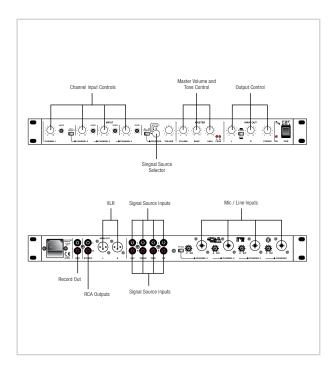
Pre Amplifier with 8 inputs and 4 outputs.

Features:

- 4 Microphone/Line inputs (switchable)
- 4 Aux/Music inputs (only one selectable for use at a time)
- Priority microphone 1 over all inputs, 4 microphone inputs over Aux/Music inputs
- ullet Microphone inputs 1 ~ 4 have selectable Phantom Power (24v)
- Master volume, stereo volume and tone controls
- Main output is mono or stereo selectable
- Seperate stereo and record outputs
- 19" Rack mounting, 1U high







| Model: | M12X4 |
|--------------------------|--|
| Mono Channels Microphone | Impedance $k\Omega$: 2.2 Max input signal dBu: 0 Max gain (@ main Out) dB: 65 Equivalent input noise (EIN) (between 22Hz ~ 22kHz unweighted): -118 CMRR (@main out, Gain 75dB) dB: -65 |
| Phantom Power | 24v |
| Mono Channels Line | Impedance kΩ: 33 Max input signal dBu: 30 Max gain (@ main Out) dB: 25 |
| Mono Channels Tone | Voice dB: ±12 |
| Stereo Channels Line | Impedance kΩ: 22 Max input signal dBu: 10 Max gain (@ main Out) dB: 10 |
| Stereo Channels Tone | High Shelving (@ 12kHz) dB: ±15 Low Shelving (@ 80kHz) dB: ±15 |
| General Outputs | Impedance kΩ: 600 Max output (main out) dBu: 22 Distortion + noise @ 16dBu: 0.025% (main out, 40dB gain): 96 Signal/noise ratio 20dB: 20Hz Frequency response (@0/1dB): 20kHz |
| Power Source | 230v AC with internal power supply unit |
| Rack Height | 1U |
| Dimensions | 482(W) x 44(H) x 160(D) mm |
| Weight | 2.1kg |



• PX8000: 8 x 8 Audio Matrix Controller

The InterM PX8000 provides a flexible, versatile, simple to operate multi-zone audio distribution system for applications such as hotels, leisure complexes, retail outlets and multi-room installations.

Features:

- $\bullet~$ 8 IN \sim 8 OUT Matrix Unit
- Simple and easy to use clear LED indicators, illuminated buttons and fader-type volume controls
- BGM input level LED / output level meter (LEDs)
- Remote control per zone via LM8000 (selectable via front panel)
- Paging via remote MIC (up to 4 units) or via front panel zone control panel
- Auto address allocation for RM8000 / LM8000 on connection
- Monitor Loudspeaker for monitoring the selected audio input source
- Emergency Message in-built Digital Message Store allowing recording and broadcast of an emergency message, activated by dry contact closure per zone (If no emergency message is recorded, this facility can be used as an Emergency Mute)
- Multiple Units are linkable via D-sub 25pin



 RM8000: Remote Microphone Station (optional)



 LM8000: Remote Wall Controller with Audio Input (optional)



Area Zone Paging Consoles Amazone RM8000 CatSe cabling Conventional Loudspeaker cabling

| Model: | PX8000 |
|-----------------------------|-------------------------------|
| Paging MIC | 50dB (Balanced) |
| MIC Input | - |
| BGM Audio Input | 8 x -10dB (Unbalanced) |
| Audio Output | OdB (Balanced) |
| Sampling Frequency | 8kHz |
| Recording Duration | 30 sec |
| Tone Control (Paging MIC) | ±10dB @ 100Hz/10kHz |
| Tone Control (Audio Output) | ±12dB @ 100Hz/10kHz |
| Total Harmonic Distortion | Less than 0.03% (20kHz LPF) |
| Signal to Noise Ratio | Greater than 75dB (20kHz LPF) |
| Power Source | 230v AC |
| Rack Height | 3U |
| Dimensions | 482(W) x 132(H) x 380(D) mm |
| Weight | 8.5kg |

| Model: | RM8000 | LM8000 |
|-----------------------------|----------------------------|--|
| Paging MIC | - | - |
| MIC Input | 60dB (Balanced) | -50dB (Balanced) |
| BGM Audio Input | - | -10dB (Balanced) |
| Audio Output | 0dB (Balanced) | 0dB (Balanced) |
| Sampling Frequency | - | - |
| Recording Duration | = | - |
| Tone Control (Paging MIC) | = | - |
| Tone Control (Audio Output) | - | - |
| Total Harmonic Distortion | - | - |
| Signal to Noise Ratio | = | - |
| Power Source | Powered from PX8000 | Powered from PX8000 (option to fit to UK gang faceplate. Ref: PS/LM Plate) |
| Dimensions | 200(W) x 70(H) x 206(D) mm | 70(W) x 114(H) x 52(D) mm |
| Weight | 1.4kg | 0.13kg |

inter

- EQ2131: 31 Band Graphic Equaliser
- EQ2231: 2 x 31 Band Graphic Equaliser

31 Band Graphic Equaliser (EQ-2131) and 31 Band Stereo EQ (EQ-2231) ideal for installations where detailed control of the sound is required, e.g. church, conference room or acoustically difficult environments.

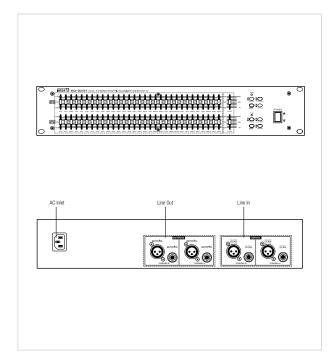
Stereo operation, bypass and HPF are standard.

Features:

- 31 Band control (sliders/faders)
- Input gain/level (sliders/faders)
- Bypass switch (per channel)
- HPF Switch (per channel)
- Inputs (XLR~¼" jack)
- Outputs (XLR~¼" jack)
- Mains powered
- 2U high, 19" rack mounting







| Model: | EQ2131 | EQ2231 |
|------------------------|----------------------------|----------------------------|
| Channels | 1 x 31 Band | 2 x 31 Band |
| EQ Frequency | 1/3 Octave | 1/3 Octave |
| Input Level/Impedance | 0dB/600Ω Balanced | 0dB/600Ω Balanced |
| Output Level/Impedance | 0dB/600Ω Balanced | 0dB/600Ω Balanced |
| High Pass Filter/HPF | 80Hz | 80Hz |
| Frequency Response | 20Hz ~ 20kHz | 20Hz ~ 20kHz |
| Power Requirement | 230v AC, 50Hz | 230v AC, 50Hz |
| Rack Height | 2U | 2U |
| Dimensions | 482(W) x 88(H) x 280(D) mm | 482(W) x 88(H) x 280(D) mm |
| Weight | 4.5kg | 4.5kg |



interM

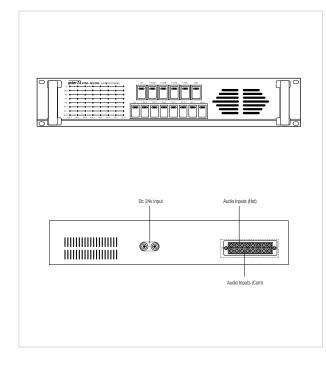
PM9208: 100v Line Monitor Panel

Ideal for large commercial installations, the PM9208 allows 8 separate 100v signals (speaker lines/amplifier outputs) to be monitored, using simple push switch selection and internal loudspeaker to select and listen to the required signal.

Visual indication of output is also provided via 10 segment LED meter.

Features:

- 8 Zone selection
- Monitor loudspeaker (1.5W)
- 10 Segment LED output meter
- 100v input/output (screw terminal)
- 24v DC powered
- 2U high, 19" rack mounting



| Model: | PM9208 |
|-------------------|------------------------------|
| Zones/Channels | 8 x @ 100v Line |
| 100v In / Out | Screw terminal on rear panel |
| Loudspeaker Power | 1.5W |
| Visual Display | 10 Segment LED |
| Power Requirement | 24v DC |
| Rack Height | 2U |
| Dimensions | 482(W) x 88(H) x 280(D) mm |
| Weight | 3.8kg |

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• LM9228: Line Level Monitor Panel

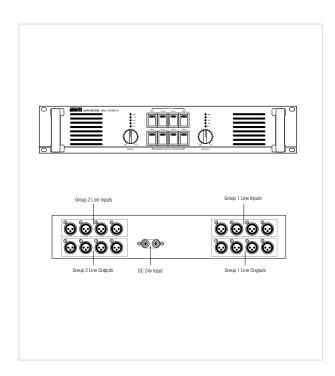
Similar in operation to the PM-9208, the LM-9228 will monitor up to 8 separate line level audio signals. Split into 2 groups of 4, each group has an individual line selector with visual LED indicator and volume control for the internal loudspeaker.

Inputs and outputs are XLR and the LM-9228 is easily integrated into any line level signal path. $\,$

Features:

- Group 1/4 individual channels
- Group 2/4 individual channels
- 2 x internal loudspeakers with volume control
- Inputs (XLR)
- Outputs (XLR)
- 24v DC powered
- 2U high, 19" rack mounting





| • | |
|-----------------------------|------------------------------------|
| Model: | LM9228 |
| Zones/Channels | 8 x @ Line Level (2 x Groups of 4) |
| Line In / Out (per channel) | XLR |
| Loudspeaker Power | 1.5W |
| Channel Activation | Latching Switch with in-built LED |
| Power Requirement | 24v DC |
| Rack Height | 2U |
| Dimensions | 482(W) x 88(H) x 280(D) mm |
| Weight | 7.5kg |



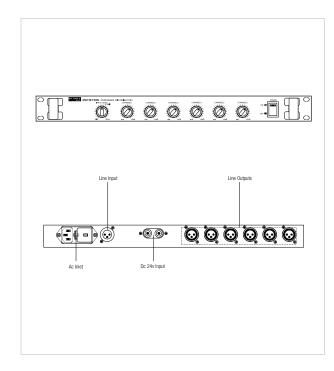
• PO9106: Program Distributor

Allows the distribution of a line level signal to six separate outputs, ensuring no loss of signal when using multiple amplifiers in larger industrial systems or for distribution of the level signals over long distances and/or to multiple destinations.



Features:

- 1 Input (XLR)
- 6 Outputs (XLR)
- LED output signal LEDs
- Independent level controls of input/output
- 230v AC/24v DC powered
- 1U high, 19" rack mounting



| Model: | P09106 |
|------------------------|----------------------------|
| Input | 1 Variable Level ~ XLR |
| Outputs | 6 x Variable Level ~ XLR |
| Input Level/Impedance | 1v/600 Ω Balanced |
| Output Level/Impedance | 1v/600Ω Balanced |
| Frequency Response | 20Hz ~ 20kHz |
| Power Requirement | 230v AC ~ 24v DC |
| Rack Height | 1U |
| Dimensions | 482(W) x 44(H) x 280(D) mm |
| Weight | 4kg |





• **PS9116:** 100v Line Loudspeaker Selector

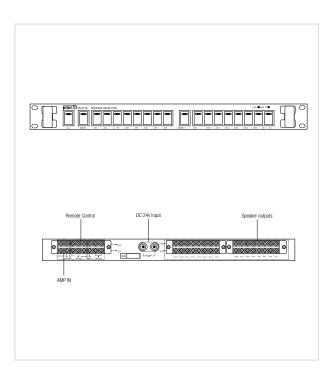
The PS-9116 allows the selection of up to 16 individual loudspeakers/zones fed by a 100v amplifier or 2 groups of 8 loudspeakers fed by 2 separate amplifiers.

Loudspeakers/zones are selected using switches with in-built LED indicators or groups can be activated via voltage-free contacts on the rear.

Features:

- 16 Individual zones
- LED indicator of selected zone
- Remote control of 2 x 8 groups via voltage-free contact
- 24v DC powered
- 1U high, 19" rack mounting





| opcomodiono. | |
|--|---|
| Model: | PS9116 |
| Loudspeakers/Zones | 16 Individual 2 x Groups of 8 |
| Remote Control (All or 2 x Groups of 8) | Voltage-free contact ~ screw terminal on rear |
| Power Requirement | 24v DC |
| Rack Height | 1U |
| Dimensions | 482(W) x 44(H) x 280(D) mm |
| Weight | 4kg |



• **PB9207:** Battery Charger

For use with all Inter-M power amplifiers, the PB9207 allows the use of DC batteries for systems which require back-up in the event of mains failure.

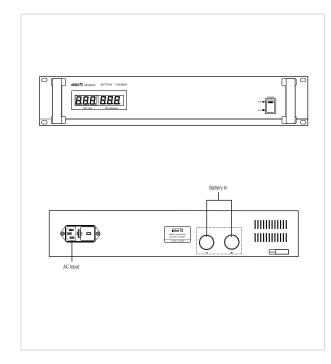
By continuous monitoring of the batteries, the PB9207 will automatically charge, thus keeping the batteries in good condition until needed.

Status and condition of the batteries is shown on a clear LED display on the front panel.

Features:

- 1 large LED status/display shows volts and amps
- DC input terminals (on rear)
- Mains powered
- 2U high, 19" rack mounting





Specifications:

| Model: | PB9207 |
|-------------------|----------------------------|
| Charging Current | 3A |
| Charging Voltage | 27.3v DC |
| Display | LED, Volts and Amps |
| Protection | Overcurrent and Overcharge |
| Power Requirement | 230v AC, 50Hz |
| Rack Height | 2U |
| Dimensions | 482(W) x 88(H) x 280(D) mm |
| Weight | 6.2kg |



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AM81: Automatic Microphone Mixer

The Clockaudio AM81 is an 8 channel automatic microphone mixer ideal for multi channel microphone systems in conference and voice reinforcement applications.

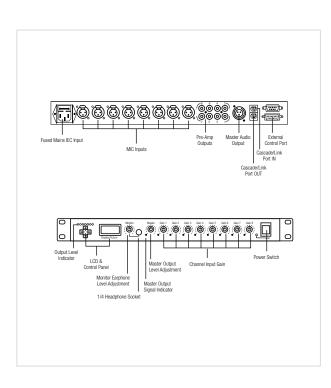
By automatically sensing when a channel becomes active, the AM81 will simply control the level of the system dependent on the priority settings. The NOMA (Number of Open Microphones Attenuated) function will also control and adjust the mixer output to prevent feedback due to open microphone channels.

Expansion is easily achieved with up to 15 units able to be cascaded for medium to large system applications (120 microphones maximum).

Features:

- 8 x Microphone Inputs
- 1 x Aux/Music Input
- Individual Priority settings
- Main Output (Balanced)
- 8 x Individual Pre-Amp Outputs
- Simple LCD Display (to view and change settings and functions)
- Automatic or Manual operation
- NOMA facility (Number of Open Microphones Attenuated)
- Link In /Link Out for multi system use





| Model: | AM81 |
|--|---|
| Input Impedance | MIC: 4300Ω , AUX 50 k Ω |
| Output Impedance (balanced) | MIC: 15k Ω , Line 220 Ω |
| Output Impedance (unbalanced) | 1kΩ |
| Pre-Amplifier Output Impedance | 3.3kΩ |
| Max Input Level | MIC: -18dBv, AUX 6dBv |
| Max Output Level (Balanced) | MIC: -18dBv, Line 21.5dBv |
| Standard Input Level (Balanced) | MIC: -28dBv, Unbalanced: AUX 2.5dBv |
| Pre-Amplifier Output Level (Balanced) | MIC -25dBv, Line 0dB |
| Pre-Amplifier Output Level | -4.4dBv |
| Max Gain | 62dB |
| Frequency Response | 20Hz ~ 20kHz |
| Noise | All channels with the max gain position (220 Ω) -85dB |
| THD+N | ≤0.5% |
| S/N | 75dB |
| Phantom Power | +48v |
| Controlling Output Voltage | 5v |
| Power Voltage | 220v AC |
| Current Consumption | 25W |
| Rack Height | 1U |
| Dimension | 430(W) x 44(H) x 221(D) mm |
| Weight | 3.2kg |

MR88: Digital Automatic Microphone Mixer

The MR88 Digital Automatic Microphone Mixer incorporates advanced DSP technology. It has been carefully designed to give outstanding performance and flexibility whilst maintaining simplicity of set-up and

Eight input channels, fully adjustable for microphone and line level can be output from either or both of the two channels. The MR88 incorporates advanced DSP technology and has been carefully designed to give outstanding performance and flexibility whilst maintaining simplicity of set up and use. It provides eight input channels, fully adjustable for microphone or line levels, and two output channels. Flexible routing gives easy use of mono or stereo sources. Each input channel can be assigned to a four-level priority system.

The MR88 provides full set-up and control of the mixer via a user-friendly LCD interface on the front panel, allowing the mixer settings to be selected and adjusted without the need to remove the case

Mixers may be linked together to make a large multi-source system with priority and NOMA information extending throughout. All settings are retained, even when the mixer is disconnected from the power

Features:

- Easy set up with LCD display of all functions and settings from front panel and by PC through RS232 socket
- Fast, silent automatic microphone selection
- 8 Channel mic/line inputs on XI R connectors
- Record outputs for each input channel
- 2 Channel mic/line outputs on XLR connectors
- · Output level LED meter
- 2 Band equalisation on each input channel
- Compression
- Multi-level channel priority system
- Easy use with mono or stereo inputs
- Dual mono or stereo outputs
- · Security mode
- · Adjustable limiters on each input prevent channel overloads
- Adjustable 'off' attenuation of each input channel
- · Channel LEDs indicate active or locked out channels
- Select NOMA operation on/off
- Simple daisy-chain set up for multiple microphone operations
- 48v Phantom Power individually selectable for each channel
- Remote VCA control and RS232
- External TTL control and monitoring of channel selection
- 1U rack-mounting

| Model: | | MR88 |
|--|---------------------------|----------------------------|
| Input Impedance | | 2.4kΩ differential |
| Output Impedance | Balanced: Pre-Amp Out: | 50Ω 560Ω |
| Max Input Level | Mic Level: Line Level: | -23dBv +16dBv |
| Max Output Level | | +19dBv |
| Nominal Output Level at OdBv on Meter | Pre-Amp Out: Balanced: | -10dBv -60dBv ~ +4dBv |
| Frequency Response | | 20Hz ~ 20kHz |
| THD+N | | -70dB |
| Max Noma Attenuation | | 20dB |
| Phantom Power | | +48v |
| Power Supply | | 15v DC |
| Operating Temperature | | 0° ~ 40°C |
| Rack Height | | 1U |
| Dimensions | | 483(W) x 44(H) x 215(D) mm |
| Weight | | 1.98kg |



• MIM020: Multizone Microphone Input Mainframe

• MPA050: 5 Input Module

Communication Technology's MIMO20 Multiple Input Mainframe is designed to provide a simple solution to microphone priority control for up to 20 inputs.

The multiple input mainframe is ideal for applications in conference and meeting room environments. Other applications include medical practices where each doctor will need to call 'next patient' using the system on a first come, first served basis.

MPA050 input modules feature 5 inputs each, where one input can be given priority over all others within the mainframe. This facility will allow the conference Chair to override delegates or, in the event of an emergency, a safety officer may take overall control throughout the whole building.

Each input has the benefit of automatic proximity bass cut and sound level limiting, so that all announcements will be more clearly

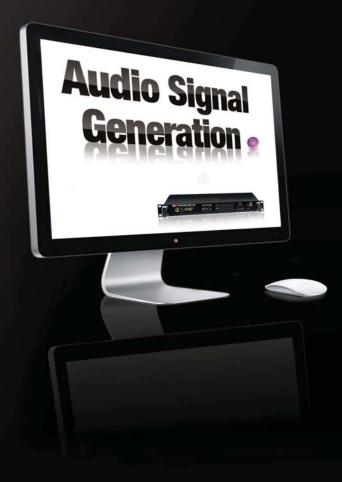




MPA050: 5 input Microphone Module



| Model: | MIM020 | MPA050 |
|--------------------|---|---|
| Powering | 24v DC @ 150mA interfaced to a 2.5 mm sockets | - |
| Output | Balanced 0dBm, 600W source or -20dBm, 60W source | - |
| Output Interface | 5 pin XLR | - |
| Frequency Response | ±3dB 50Hz ~ 12KHz | Unlimited: ±3dB 100Hz ~ 10kH Bass cut in limit: varible with voic proximity to -18dB @ 100Hz |
| Output Access | Suitable for VOX activated host amplifiers or for electronic access systems | - |
| Gong Function | When onboard selected as an option, fully automatic on using mic PTT | - |
| Input Capacity | 4 x MPA050, 5-input modules | 5 inputs per module |
| Input Sensitivity | - | Suitable for most 600W mics, -65dB |
| Input Gating | - | From attached mic PTT, or switched, all inputs 1st-come 1st-served; 1 input is switchable for overall priority |
| System Access | - | Provision made for each attached mic to be signalled by LED, that the system is available for use |
| Microphone Input | - | 5 pin XLR (supplied) |
| Rack Height | 2U | 1U |
| Dimensions | 483(W) x 200(H) x 88(D) mm | - |
| | | |



| CD Player | 96 |
|-----------------------|-----|
| AM/FM Tuner | 97 |
| Chime/Siren Generator | 98 |
| Tone/Pulse Generator | 99 |
| Digital Audio Store | 100 |

Induction Loops

MP³

• MCD15: 5 Disc CD/MP3 Player

The MCD15 is a full-featured Multi CD/MP3 player, designed for fixed installation in commercial as well as professional sound system applications.

In addition to the standard functions of a CD MP3 player, the MCD15 offers a wide range of advanced functions.

It contains a programmed play mode allowing the user to create programs with up to 32 tracks, several repeat modes such as repeat track / repeat disk / repeat all disks.

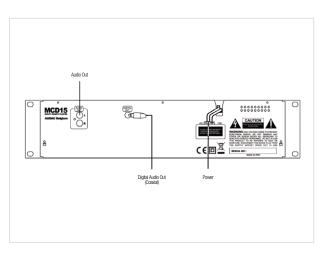
Features:

AUDAC

- 5 Disc CD changer
- Intelligent disc scan
- 32 Track program memory
- 3 Mode random playback
- Low power consumption
- 20 bit and 8x oversampling digital filter
- Direct track selection
- 3U high, 19" Rack mounting kit available







| Model: | MCD15 |
|---------------------------|-------------------------------|
| Power consumption | 14W |
| Discs | Audio compact discs 8cm, 12cm |
| Number of discs | 5 |
| Channels | 2 |
| Frequency Characteristics | 20Hz ~ 20kHz |
| Dynamic Range | 98dB |
| Signal/Noise Ratio | 102dB |
| High Frequency Distortion | 0.006% |
| Separation | 95dB |
| Frequency Response | 20Hz ~ 20kHz |
| Power Requirement | 230v AC, 50Hz |
| Rack Height | 3U |
| Dimensions | 435(W) x 115(H) x 388(D) mm |
| Weight | 6.2kg |



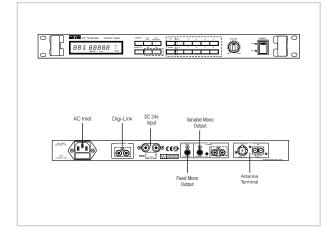
• **PT9107S:** AM/FM Tuner

Slimline 19" rack-mounting tuner operating on AM and FM bands. 20 pre-set stations make the unit ideal for many commercial installations requiring radio broadcast.

Fixed/variable and stereo/mono output options are also available.

Features:

- AM/FM bands
- 20 Pre-set stations
- Mono output /fixed (¼" jack)
- Mono output/variable (1/4" jack)
- Stereo output/variable (stereo phonos)
- 230v AC/24v DC powered
- 1U high, 19" rack mounting



| - | |
|-------------------|---|
| Model: | PT9107S |
| AM Range | 522 ~ 1611kHz |
| FM Range | 87.5 ~ 108.0MHz |
| Pre Set Stations | 20 |
| Output Levels | FM Stereo ~ 500mv Balanced FM Mono ~ 1v Balanced AM Mono ~ 240mv Balanced |
| Power Requirement | 230v AC, 50Hz/24v DC |
| Rack Height | 1U |
| Dimensions | 482(W) x 44(H) x 280(D) mm |
| Weight | 3.5kg |



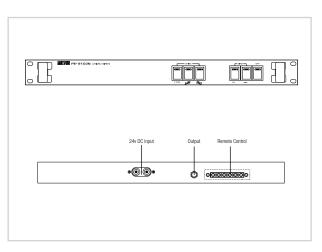
• PE9103A: Chime/Siren Generator

Tone Generator allowing the selection of 4 chime/tone options or 2 siren options. It can be used as part of a larger system or can be used as a stand-alone generator.



Features:

- Chime/tone options: Rising 4 note, falling 4 note, 2 note
- Siren options: Continuous, oscillating
- · Activation on front panel
- Rear panel remote access for chime options (screw terminals)
- Line level output (1/4" jack)
- 24v DC powered
- 1U high, 19" rack mounting



| Model: | PE9103A |
|-----------------------------|--|
| Chime Options | 4 note ascending, 4 note descending and 2 tone (ding dong) |
| Siren Options | Continuous and oscillating |
| Remote Control (Chime only) | Screw terminal on rear panel |
| Output Level/Impedance | 1v/10k Ω unbalanced |
| Power Requirement | 24v DC |
| Rack Height | 1U |
| Dimensions | 482(W) x 44(H) x 280(D) mm |
| Weight | 2.8kg |





• TPG-5: Tone/Pulse Generator

The TPG-5 device holds 5 factory-set/embedded alarms and tones which can be used in schools, factories and retail sectors for class change, shift start & stop or security signalling purposes.

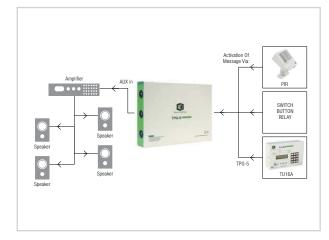
Activation of the tones is via voltage-free NO or NC contacts, buttons, switches, PIR devices, or via the TU-16A Timer Unit. A pulsed activation will allow just one loop of the required tone; however, if the activation contact remains, the tone will play continually until disengaged.

A line level audio output signal is provided for interface to the

Features:

- 5 factory-set alarms and tones
- Activation via NO/NC contacts
- Screw terminals for fast, simple on-site installation
- Strong, robust, compact unit





| Model: | TPG-5 |
|----------------------|-----------------------------------|
| Audio Output | 0.7v RMS over the frequency range |
| Output Configuration | Unbalanced |
| Activation | Voltage-free contact closure |
| S.P.C.O Rating | 1A @ 24v DC, 0.5A @ 125v AC |
| Connections | Screw Terminals on PCB |
| Power Consumption | 3vA @ 240v AC, 50mA @ 24v DC |
| Case Material | Powder coated steel |
| Dimensions | 220(W) x 162(H) x 44(D) mm |
| Weight | 1.8kg |









• LB-5A: Digital Audio Storage and Replay Unit

This latest generation of Clever Little Box incorporates MP3 technology to store and replay recorded voice messages, music or tones for security/safety, retail, museum/leisure and advertising applications.

Files are stored on an internal USB memory stick with an 8 hour* memory capacity allowing material to be changed or replaced easily.

The 15 channels can be individually accessed or activated by voltage-free NO or NC contacts, buttons, switches, PIR devices, or via the TU-16A Timer. A pulsed activation will allow just one loop of the required recording; however, if the activation contact remains, the recording will play continually until disengaged (Groups 1 & 2 only).

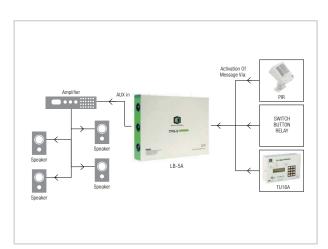
A line level audio output signal is provided for interface to the amplifier.

Features:

- MP3 audio storage technology
- Three configurable Groups of 5 Messages, 5 Chimes & 5 Tones
- Additional BGM music facility
- Audio File Group 1 has priority over 2, 3 & BGM; Groups 2 & 3 have priority over BGM
- Audio files stored on internal USB memory stick for fast, easy updates via Windows/Mac/PC
- Sample audio files supplied
- Line level output via stereo phonos or balanced mono screw terminals
- 3.5mm 'monitor' headphone jack socket
- 12v DC powered (supplied with mains adaptor)
- Adjustable interval timer
- Signal 'Looping' or 'One-shot' operation
- · Secure, robust and stylish steel case (wall mountable)



| Model: | LB-5A | Comments |
|--|---|--|
| Directly Accessible Audio Files | Total 15 | Split into three banks of five |
| Background Music Files | 256 (Using 1Gb Memory Stick supplied) | Played in random order |
| Audio File Format | MP3 | MPEG1 audio layer 3 |
| MP3 Bit Rate | Up to 320Kbs | Any standard MP3 bit rate |
| Min Contact Closure Time | < 300mS | = |
| Wiring Termination Type | PCB screw terminals | = |
| USB Memory Stick Capacity | 32Gb Maximum | Supplied with 1Gb |
| USB Memory Stick Format | FAT 16, FAT 32 | = |
| Audio Outputs | Phono sockets Screw terminals 3.5mm stereo jack | Unbalanced stereo / mono Balanced mono Headphone monitoring |
| Audio Output Level | Line Level (775mv RMS) | Excl. headphone |
| Audio Frequency Response | 30Hz ~ 18kHz ± 3dB | Affected by bit rate |
| Audio Output Impedance | Less than 1KΩ | _ |
| Power Supply Input | 12v DC ±15% @ 300mA | Unit supplied with plug top power supply fitted with 2.1mm DC Power Jack |
| PIR Supply Output | 12v DC ±15% @ 100mA | The supplied PSU will power up to 3 PIRs |
| Power Consumption | 2.5W typical | 5.5W maximum |
| Operating Environmental Temperature | 10°C ~ 35°C | - |
| Case Material | Painted mild steel | - |
| Dimensions | 210(W) x 160(H) x 42(D) mm | Excl. power supply |
| Weight | 1kg | - |



^{*}Dependent on memory stick storage capacity



| Cats Audio distribution System | 102 |
|--------------------------------|-----------|
| 16 Event Timer Unit | 103 |
| Zone Selector Unit | 104 |
| Line Level Converter | 104 |
| Phantom Power Supply | 105 |
| Telephone Paging Interfaces | 105 ~ 106 |
| Ambient Noise Level Regulator | 106 |
| Volume Controls/Attenuators | 107 ~ 110 |
| Audio-via-Bluetooth Receiver | 111 |
| Isolation Transformers | 112 ~ 114 |
| Microphone Signal Splitters | 115 |



SONET4: Cat5 Audio Distribution System -4 in / 4 out

The highly successful 'So.net' Sound-over-Ethernet System has been designed to simplify and speed up installations where multiple microphone or line level inputs need to be situated a distance from the amplifier equipment.

Types of installation include churches, schools, theatres and corporate boardrooms.

This extremely versatile and cost effective installation device removes the need for multiple cable runs from remote audio inputs to the amplifier equipment. The SONET4 System can transmit up to four microphone or line level signals down one screened Cat5e cable for up to 1000m.

Each input and output can be independently configured for balanced or unbalanced signals as well as line level or microphone level. There is also an option to provide phantom power to the microphone inputs independently.

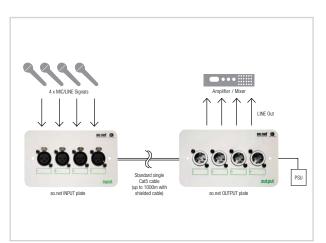
Each unit fits neatly into a standard UK double-gang back box and only requires a power supply at the output or amplifier end (PSU supplied as part of system).

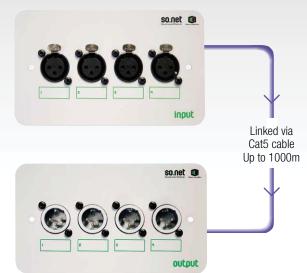
Features:

- Reduces installation time
- Up to 1000m between Input and Output plates achieveable
- Very high interference immunity
- Balanced or unbalanced inputs & outputs
- Line or Microphone level inputs & outputs
- Phantom power (max. 15v DC)
- Four XLR sockets on standard 2 gang plates
- No power required at input module
- · Power Supply included as part of system

Please Note:

 When using Cat5 UTP (unshielded) cable, the So.Net system is only capable of transferring up to 3 channels. STP (shielded) Cat5 cable will allow for the maximum 4 channels.





Specifications:

| opecifications. | |
|------------------|--|
| Input Module: | |
| Power | Over Cat5 cable |
| Ground | Over Cat5 cable screen (or spare pair) |
| Inputs x 4 | Balanced XLR female |
| MIC/LINE in | Selectable by jumper |
| Phantom Power | 15v jumper selectable |
| MIC Impedance | 600Ω |
| MIC Level Input | 10mv RMS |
| LINE Impedance | 50kΩ |
| LINE Input Level | 700mv RMS (1.5v RMS max) |
| Cat5 Termination | Screw terminals |

| Output Module: | |
|--------------------|--|
| Power Requirements | 24v DC @ 100mA (regulated linear power supply recommended) |
| Outputs x 4 | Balanced XLR male |
| MIC/LINE Out | Selectable by jumper |
| MIC Out Impedance | 600Ω |
| MIC Level Output | 20mv RMS (into 600Ω) |
| LINE Out Impedance | 20kΩ |
| LINE Level Output | 700mv RMS (into 20K) |

| General: | |
|-----------------------|--|
| Channels | Four, individually configurable |
| Bandwidth | 100Hz ~ 20kHz (-3dB) |
| Crosstalk | >60dB |
| Signal to Noise Ratio | >60dB |
| Cable Spec | Screened Cat5e cable (UTP can be used, but one pair required for ground, meaning only three channels would be available) |
| Cable Length | 1000m maximum |
| Cat5 Termination | Screw terminals |

Protected against short circuit on Cat5 cable to ground



• TU-16A: 16 Event Timer Unit

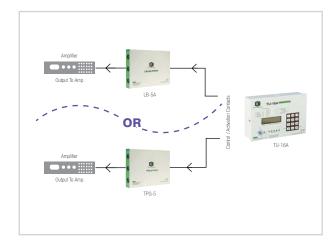
The TU-16A is a versatile timer used to provide control of external equipment such as the TPG-5 and LB-5A units for schools, factories and retail sectors to signal class change, shift start & stop or security warning/announcement purposes.

A total of 16 events or activations can be programmed over a 24 hour time frame and duplicated over a 7 day period. 5 separate outputs allow activation of different sources at the predetermined times, set via a clear LCD interface.

Features:

- 16 events per day, 112 events per week
- 5 separate programmable outputs
- Latched or pulsed outputs
- · Active output indication
- 40 year memory
- Illuminated display
- Anti-tamper key for programming security
- Screened metal enclosure





| TU-16A |
|------------------------------|
| 16 |
| 5 |
| 2 (Pulsed & Latched) |
| 24 hours or 7 days |
| Powder coated steel |
| 230v AC or 24v DC |
| 220(W) x 160(H) x 40.5(D) mm |
| 1.8kg |
| |





ZSU-5A: Zone Selector Unit

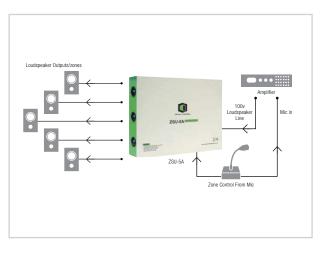
The ZSU-5A provides the facility to take a high impedance 100v loudspeaker output from an amplifier and split it into 5 separate zones.

Each zone can be selected using either voltage-free contacts or ideally a multi-zone paging microphone.

As well as zoning capability, the ZSU-5A will also provide a switched 24v DC output and a voltage-free relay contact active whilst the unit is in use.

Ideal for small to medium sized commercial audio installations, units can also be linked to provide and meet larger system requirements.





Specifications:

| Model: | ZSU-5A |
|---------------|----------------------------|
| Case Material | Powder coated steel |
| Power | 230v AC or 24v DC |
| Dimensions | 220(W) x 162(H) x 44(D) mm |
| Weight | 1.8kg |

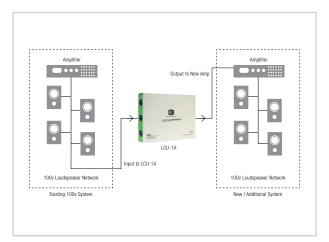
LCU-1A: Line Level Converter

This versatile interface is designed to convert a high impedance 100v loudspeaker signal to either a balanced variable line level or microphone level signal.

Especially useful if extending or adding to existing installations as it negates the need to run new cables from the existing amplifier or main equipment; simply tag onto the 100v loudspeaker circuit and feed the output into a local amplifier.

The unit provides two independent Mic or Line outputs, as well as including a DC capacitor to allow connection to VA or monitored systems.





| = | |
|---------------|-----------------------------|
| Model: | LCU-1A |
| Case Material | Powder coated steel |
| Power | Passive (no power required) |
| Dimensions | 220(W) x 162(H) x 44(D) mm |
| Weight | 1.2kg |



PPS-2: Phantom Power Supply

The PPS-2 is a mains-operated microphone phantom voltage power supply designed to power electret-type microphones via the signal cable.

It has two independent channels which can be internally configured to provide a balanced 48v, 24v or 12v DC supply to the microphone.

The default setting is 48v, which is the de-facto standard, and is therefore suitable for the majority of electret or condenser type microphones.



Specifications:

| Model: | PPS-2 |
|---------------------|-------------------------------------|
| Number of Channels | 2 |
| Phantom Voltage | 12, 24 or 48v (selectable) |
| Input Configuration | Balanced |
| Input Connectors | 2 x Female 3 pin XLR |
| Output Connectors | 2 x Male 3 pin XLR |
| Insertion Loss | Negligible with ${<}600\Omega$ mics |
| Power Supply | 230v 50Hz (110v option) |
| Consumption | <3W |
| Case Material | Metal |
| Complies With | DIN spec 45596 (P48) |
| Dimensions | 156(W) x 80(H) x 203(D) mm |
| Weight | 1.03kg (including mains lead) |

• PAM-10: Barrier Interface

This BT-approved device provides an isolated barrier between amplifiers and telecoms equipment or acts as a coupling device for sending and receiving long distance line level signals.

Traditionally used in applications such as military camps, trackside communications, music-on-hold and telecommunications.



| Model: | PAM-10 |
|---------------|-----------------------------|
| Case Material | ABS |
| Power | Passive (no power required) |
| Dimensions | 120(W) x 60(H) x 40(D) mm |
| Weight | 0.5kg |



• EPA100: Telephone/PA Paging Interface

Public address access from a telephone extension can benefit most fast-moving enterprises.

Ezi-Page is designed to allow an analogue telephone extension port to which it is connected to be dialled from any other on the same PBX switch system, providing a paging announcement over a public address system. The user simply dials the extension number designated for Ezi-Page, waits for the ring tone to cease and then makes the required announcement.

Features:

- VOX access electronics maintain the line connection until the end of the announcement, approximately 5 seconds after Ezi-Page automatically clears down
- Connected to a PA system using either a designated microphone or line level amplifier input, this input can be VOX or electronic gate accessed
- Fully approved, it includes an optically isolated barrier transformer input and uses standard BT 4/500 interface plug connections
- Requires 24v regulated DC powering from the host PA system or plug-top power supply PSU24V
- Provided with a wall-mounting facility; interface connection is from below or can be housed within the PA system rack
- Installation is made simple; all terminations use standard interface connections



Specifications:

| Model: | EPA100 | |
|----------------------|---|--|
| Designated Extension | Analogue via BT 4/500 interface, 3m BT cable supplied | |
| PA Output | 700mv or 70mv, for line or microphone level amplifier input, VOX access amplifiers need no further connections. However, amplifiers with electronic access will require a contact closure available as 'volt free' on Ezi-Page interconnections | |
| Powering | 24v DC regulated from Communication Technology power supply type PSU24v or from the host PA amplifier | |
| Dimensions | 120(W) 180(H) x 70(D) mm | |

ANS-1: Ambient Noise Sensor/Level Regulating Module

This level regulating/ambient noise-following module is designed to receive audio signals from an ambient sensing microphone and, where required, adjust signal levels to the power amplifier of the public address installation.

The output level of the module will automatically and constantly adjust to follow the average rise and fall in the ambient noise in the area served by the host amplifier (airports, hotel reception areas, transport terminals, sports stadiums, etc). The ambient noise will be continuously sampled by the sensing microphone/s, sited as close to the source of change as possible.

Where large areas have various localised sources of variable 'ambient' noise, it may be desirable to cover each with a separate sensor, (for example, an underground railway would benefit from having one sensor at each end to detect the noise of trains arriving from either direction).

Features:

- Microphone input (sensor)
 a. 200µv balanced low impedance
 b. 150mv unbalanced high impedance
- Audio In/Out 500mV, unbalanced
- Reaction time 20seconds, 10dB range
- XLR IN (Female) OUT (Male)



| Model: | ANS-1 | |
|---|---|--|
| Power Supply | 24v DC @ 40mA, this can be derived from the host system, or plug top power supply PSU24v $$ | |
| Microphone Sensor Input Sensitivity | 200μν balanced low impedance 150mv, unbalanced high impedance | |
| Audio Input / Output Preferred Level | 500mv unbalanced | |
| Reaction Time (to noise change) | 20 secs, 10dB range | |
| Interface Connections | All signal & powering interfaces are XLR, inputs are female, output male | |
| Dimensions | 120(W) x 180(H) x 70(D) mm | |



VCA-1A: Voltage-controlled Attenuator

The VCA-1A is ideal for both commercial public address amplifiers and professional stereo amplifiers, allowing remote control of the volume levels via a remote 2 core cable link.

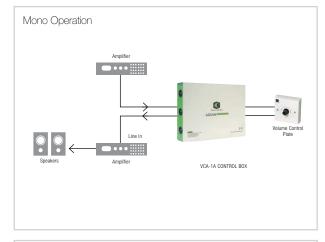
Comprising of a two-channel control box and two volume control plates, the main unit is positioned between the amplifier and pre amplifier/mixer increasing or decreasing the signal between the units.

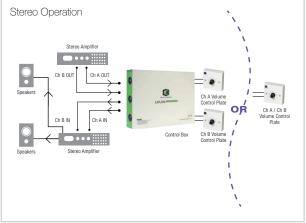
Applications include bars, retail sites, classrooms and industrial sites.

The system can be configured to operate as:

- Mono
- (1 channel in use)
- Stereo A
- (2 independent channels in use)
- Stereo B
- (1 plate controlling both channels simultaneously)







| Model: | VCA-1A |
|---------------|----------------------------|
| Case Material | Powder coated steel |
| Power | 230v AC or 24v DC |
| Dimensions | 220(W) x 162(H) x 44(D) mm |
| Weight | 1.5kg |







- SLA50: 50W 100v Line Volume Control
- SLA100: 100W 100v Line Volume Control

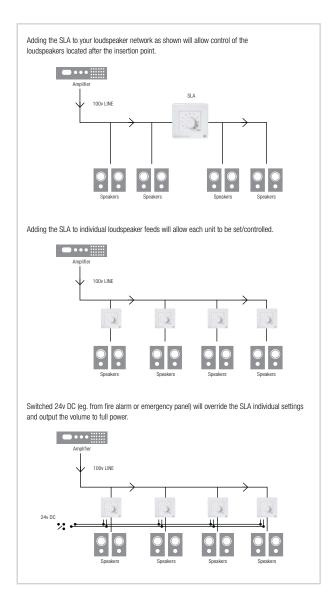
The SLA range of 100v Line Attenuators (volume controls) offer the ability to control the level of individual loudspeaker lines via an elegant, flushmounting wall control plate.

Both Models - SLA50 (50W) and SLA100 (100W) - feature 10-step plus off-position notched control knobs, connected to high quality audio transformer and fitted to attractive single gang (SLA50) or double gang (SLA100) faceplates with contemporary screwless finish.

As well as volume adjustment, the units incorporate volume restoration facility, which will override the setting of the control knob and output the volume to full, when presented with a 24v DC control voltage.







| Model: | SLA50 | SLA100 |
|-------------------------|------------------------------|------------------------------|
| Power Rating | 50W RMS | 100W RMS |
| Settings/Steps | Off, 1 x 6dB, 9 x 3dB Steps | Off, 1 x 6dB, 9 x 3dB Steps |
| Paging Override Voltage | 24v DC | 24v DC |
| Colour | White | White |
| Termination | Rear-mounted screw terminals | Rear-mounted screw terminals |
| Dimensions | 86(W) x 86(H) x 44(D) mm | 95(W) x 165(H) x 44(D) mm |







- LVC-25: 25W 100v Line Volume Control
- LVC100: 100W 100v Line Volume Control
- LVC300: 300W 100v Line Volume Control

A range of 50/70/100v line remote volume controls for loads of 25, 100 and 300W with provision for local volume restoration for paging announcements by built-in 24v relay override.

Each control has been designed to provide excellent frequency response with minimum quiescent power loss, using uniquely wound auto-transformers for maximum efficiency.

LVC025/VA and LVC100/VA models include all the same features of the standard LVC025 and LVC100 products; the main difference is that the override relay is energised when the Volume Control is in normal use and de-energises in fail/safe override condition, to provide full volume restoration for emergency broadcasts.

Both controls are suitable for low frequency and DC line surveillance monitoring systems, normally associated with Voice Alarm facilities and are site adjusted.

Features:

- A rugged, stepped, user control
- · Collet fixed knobs
- · Permanent push-on wiring connectors conveniently at one end of the PC
- Easily adjustable, colour coded, on-board header receptacles for option selection (300W excluded, use terminal selection)
- Detailed diagrammatic instructions make preparation and installation easy
- · Also suitable, by 'on-board' option selection, for three wire amplifier sourced paging override systems, TRI-WIRE
- LVC025 and LVC100 volume controls are fitted to ivory ABS UK switchplates
- · Various metal front panel options are available at extra cost



Order Codes:

Model: LVC025/VA: 25W, including UK front panel, single switchplate - VA compliant LVC025: 25W, including UK front panel, single switchplate LVC025/PC: 25W, 'bare bones' PC only LVC100/VA: 100W, including UK front panel, double switchplate - VA compliant LVC100: 100W, including UK front panel, single switchplate LVC100/PC: 100W, 'bare bones' PC only LVC300: 300W, including front panel to mate with MK 5268 ALM flush backbox LVC300/PC: 300W, 'bare bones' chassis only LVC300/SM 300W, mounted in surface fixing backbox LVC600: 6W LowZ including UK front panel, single switchplate

| Model: | LVC-25 | LVC100 | LVC300 |
|-------------------------------|--|---------------------------|--|
| Rated Input | 25W, 100v | 100W, 100v | 300W, 100v |
| Maximum Load | 30W | 120W | 330W |
| Maximum Input Voltage | 100v, RMS 140v Peak (intended for use on 50, 70, 100v line distribution systems) | | |
| Minimum Nominal Input Voltage | 50v | 50v | 50v |
| Control Attenuation | 60dB, in 12 steps, including 'Off' | | |
| Paging Attenuation | 12dB, in 4 steps (relay override function only) | | - |
| Operating Frequency Range | 150Hz ~ 15KHz | 150Hz ~ 15KHz | 40Hz ~ 15KHz |
| Override Relay: Consumption | 400mW | 400mW | 900mW |
| Termination | · · · · · · · · · · · · · · · · · · · | | Screw termination max cable size 4mm ² |
| Finish | lvory plate with grey rotary switch | | |
| Dimensions | 87(W) x 87(H) x 38(D) mm | 87(W) x 145(H) x 38(D) mm | 122(W) x 178(H) x 84(D) mm |







COMMUNICATION



- TW1010: TRI-Wire Override Interface
- TVC25: 25W 100v Line Volume Control

TRI-WIRE TW1010 is an interface between the amplifier and loudspeaker(s) to allow low cost overall paging override and volume restoration, where a number of individual loudspeaker line volume controls are to be installed.

Without TRI-WIRE, each volume control would need to be fitted with an override relay requiring centrally sourced powering, involving 4 wire cabling. As the name suggests, the TRI-WIRE system uses only three wires linked to the volume controls, enabling a lower cost of installation.

A special TRI-WIRE line volume control, TVC25 is recommended for use with this system, though any of the Communication Technology Volume Control range is compatible.

TW1010 has the advantage of being low profile and suitable for all back boxes of at least 20mm depth, supplied standard with an ivory white plastic front panel. For installation in close proximity to the host amplifier.

Features:

- No remote relay powering necessary
- Lower cost of each volume control
- Compatibility with all types of paging access system, including VOX gates, passive or electronic access
- Requires only a few milliamps, can be powered from a 24v plug top supply, or the host amplifier
- TW1010 can easily be installed in a UK double switchplate back box or within the host amplifier
- May also be used to terminate all amplifier and loudspeaker cabling
- Auxiliary outputs for speech (paging) only, music only in addition to normal outputs are provided



| Model: | TW1010 |
|---------------------------------------|---|
| Supply Voltage | 18 ~ 35v negative ground, 24v nominal |
| Supply Current | 20mA on override |
| System Function | By direct 'PRESS TO TALK' connection on paging microphone or by grounded 24v access system |
| Volume Restoration Relay: Contacts | Silver nickel 2 Amp. Maximum switching voltage 150v AC |
| Maximum Input Power | 120W RMS, 50, 70 or 100v line |
| Dimensions (face plate) | 145(W) x 85(H) x 15(D) mm (2 gang plate) requires at least 25mm depth back box/enclosure |

| Model: | TVC25 |
|---------------------------|--|
| Rated Input | 25W |
| Maximum Load | 30W |
| Maximum Input Voltage | 100v RMS 140v Peak |
| Control Attenuation | 60dB in 12 steps, including 'Off' |
| Operating Frequency Range | 150Hz ~ 15kHz |
| Operating in Systems | Attenuation recommended below 150Hz |
| Terminations | Screw terminals; maximum cable size 3.5mm² |
| Dimensions | PCB: 65(H) x 50(D) mm. Overall depth 30mm. When mounted to supplied UK single gang switchplate, depth behind panel is 20mm |







The new AVB5 is a low cost, simple, yet effective unit which allows wireless connection between any amplifier (or any device with a line input) and Bluetooth enabled devices, such as:

- MP3 Players
- Mobile Phones
- PC/Laptop Computers
- Microphone/Headsets

Each AVB5 unit has a unique pairing code to identify it, which is especially useful if operating multiple devices within a small area or location, the maximum operational range being 80 metres (dependent on the environmental conditions). A simple blue LED identifies when a connection to the AVB5 is successfully made.

Once paired, the unit streams the audio signal via a secure 2.4GHz A2DP protocol, avoiding any other Bluetooth enabled device within range.

Power is supplied by a 5vDC plugtop PSU (supplied) or via a USB A connection, which may be via a computer or other source with USB facility.

Features:

- Bluetooth Wireless link to amplifiers, pre-amps, HiFi, etc
- Unique pairing code to each unit
- Operating range up to 10 metres
- Powered via PSU or USB



Connect To Line-in AVBS Connect To Line-in Laptop

Order Codes:

| Model: | AVB5 |
|------------|---|
| Inputs | 2.4GHz A2DP Bluetooth Protocol |
| Outputs | 3.5mm Stereo Jack or 2 x Phono Connectors |
| Pairing/ID | ID code located on the bottom of the unit |
| Range | 10m max. (optimum conditions) |
| Power | 5v DC via supplied PSU or via USB A connector |
| Dimensions | 105(W) x 32(H) x 56(D) mm |
| Weight | 0.08kg (not incl PSU) |



Need help choosing the right product? Call our technical support team now on:

Induction Loops

Switchcraft

- SC700: AV Direct Box -Fully-shielded Jensen Isolation Transformer
- **SC700CT:** AV Direct Box Fully-shielded Isolation Transformer

The SC700 Series gives you all the inputs and outputs you need to connect MP3 players, PCs, laptops, CD players and other audio devices to audio consoles, mic preamps, effects processors, house sound systems and other equipment with 3-pin XLR inputs.

Both the SC700 and SC700CT convert the outputs of your high-impedance stereo or mono line level audio devices and musical instrument to low-impedance, balanced and isolated mic level signals. All stereo inputs are summed to mono and output to a single 3-pin XI R connector.

The SC700 AV Direct Box from Switchcraft comes loaded with genuine Jensen transformers, which provide optimal impedance and an impressively extended frequency range (10Hz $\scriptstyle\sim$ 40kHz).

Features:

- · Left and right RCA inputs
- Left and right RCA thruputs
- 3.5mm stereo input
- Left and right 1/4" TS (unbalanced) inputs
- 20dB pad
- Pin-1 ground lift
- Recessed I/O panel
- Ultra-rugged extruded aluminium enclosure



| Model: | SC700 / SC700CT |
|------------|--|
| Туре | Passive DI |
| Channels | 1 |
| Inputs | 2 x RCA, 1 x 2.5mm stereo, 2 x 1/4" jack |
| Outputs | 1 x XLR, 2 x RCA thru |
| Dimensions | 53(H) x 85(D) x 105(W) mm |
| Weight | 0.27kg |

Switchcraft

- SC800: Instrument Direct Box -Fully-shielded Jensen Isolation Transformer
- SC800CT: Instrument Direct Box -Fully- shielded Isolation Transformer

Switchcraft's SC800 Direct Box Series efficiently converts your instrument's high-impedance line-level signal to a balanced and isolated microphone-level signal. That way, you can put an SC800 between your audio devices or instruments, then connect your line-level equipment to other equipment, such as audio consoles, premaplifiers, effects processors and recording gear.

The Switchcraft SC800 even employs Jensen transformers, for a high-quality design.

Features:

- Instrument direct box (SC800 Model only with Jensen transformer)
- Common Mode Rejection: Greater than 100dB at 60Hz
- Input Impedance: Greater tthen 150k at 1kHz
- Output Impedance: Less than 170k at 1kHz
- Phase Response: Less than 3 degrees at 20Hz, Less than 1 degree at 1kHz, Less than 16 degrees at 20kHz
- Total Harmonic Distortion + Noise: Less then .05% (At 20Hz, +4dBu), Less then .006% (At 1kHz, +4dBu)
- Maximum Input Level: +21dBu (At 20Hz with 1% THD), +41dBu (With 20dB Pad Engaged)
- Frequency Response: 10Hz to 40kHz (±0.3dB, ref 1kHz)
- Voltage Gain: -23dB, -43dB (With 20dB Pad Engaged)



| Model: | SC800 / SC800CT | |
|------------|-----------------------------|--|
| Туре | Passive DI | |
| Channels | 1 | |
| Inputs | 1 x 1/4" jack | |
| Outputs | 1 x XLR, 2 x 1/4" jack thru | |
| Dimensions | 53(H) x 85(D) x 105(W) mm | |
| Weight | 0.27kg | |

Induction Loops

Switchcraft

- SC900: Instrument Box with Phantom Lift (Jensen Isolation Transformer)
- **SC900CT:** Instrument Box with Phantom Lift (Switchcraft Isolation Transformer)

Switchcraft SC900 Series are the first passive direct boxes with remote-controllable ground-lift switch. This ground-lift switch (called Phantom Lift) allows you to instantly disconnect the SC900's ground circuit by simply engaging +48v phantom power from the board. That way, if an irritating buzz starts to show up in the middle of the show, you don't have to fight the crowd and appear onstage to fix the issue!

Just flip on phantom power and the SC900CT cuts its ground. It's that simple! The SC900 Series also comes equipped with either Prograde Jenson or Switchcraft's own custom transformers, so you get amazing isolation, impedance matching and extended frequency

Features:

- Phantom Lift remote-cotrollable ground lift uses phantom power to trip ground line
- · LED indicator illuminated to show lifted ground
- Two ground lift modes: manual and +48v lift
- Frequency response 20Hz ~ 20kHz
- Super-rugged all-metal design
- Unbalanced 1/4" in and through connectors
- Balanced XLR output
- · Switchable -20dB pad



| Model: | SC900 / SC900CT |
|------------|---------------------------|
| Туре | Passive DI |
| Channels | 1 |
| Inputs | 1 x ¼" jack |
| Outputs | 1 x XLR, 1 x ¼" jack thru |
| Dimensions | 53(H) x 85(D) x 105(W) mm |
| Weight | 0.27kg |

Switchcraft

RMAS8: 3-way Microphone Splitter with Dual-transformer Isolated Outputs

Switchcraft's RMAS8 is perfect for any situation where you need to send duplicate signals to different places with no degradation of the signal.

The front panel of the RMAS8 is equipped with eight XLR inputs and the back panel sports eight channels of inputs on DB25 with corresponding direct outs, also on DB25.

Transformer-isolated outputs (also on DB25) lets you send duplicate feeds to auxiliary tasks, such as monitor mixes or a recording deck. Two ground lift toggles per input and a 40dB pad complete the RMAS8's features.

Features:

- 8 input, 24 output dual transformer isolated audio splitter
- · 8 Switchcraft front panel XLR inputs
- 40dB Line level pad on each channel
- Two ground lift toggle switches on each channel (1 for each transformer isolated output)
- 4 DB25 connectors (TASCAM pinout) to accommodate all of the units Inputs/Outputs



RMAS8PRO: 3-way Microphone Splitter with Dual-transformer Isolated Outputs on DB25

Switchcraft's RMAS8PRO sends duplicate signals to different places with no degradation of the signal.

The RMAS8PRO's front panel is equipped with eight XLR inputs and the back panel sports eight channels of of inputs on DB25 with corresponding direct outs, also on DB25. Jensen magnetically shielded (MU Metal) dual-isolated audio transformers let you send duplicate feeds to auxiliary tasks, such as monitor mixes or a recording deck.

Two ground lift toggles per input, a third set of Euro style terminal blocks, and a 40dB pad complete the RMAS8PRO's features.

Features

- 8 input, 24 output dual transformer isolated audio splitter
- 8 Switchcraft front panel XLR inputs
- Line level pad on each channel
- Two ground lift toggle switches on each channel (1 for each transformer isolated output)
- 4 DB25 connectors (TASCAM pinout) to accommodate all of the units Inputs / Outputs
- Additional set of I/O connections utilising Euro style terminal blocks
- Jensen magnetically shielded (MU Metal) dual isolated audio transformers







| Slimline Gooseneck Microphones | 118 ~ 120 |
|---------------------------------------|-----------|
| Mini Shotgun Gooseneck Microphones | 121 ~ 122 |
| Twin-mount Gooseneck Microphones | 123 |
| Combination Series Microphones | 124 ~ 125 |
| Suspended Microphones | 126 |
| Microphone Shock Mounts | 127 ~ 128 |
| Retractable Through-table Microphones | 129 |
| Boundary Microphones | 130 ~ 133 |
| Heavy Duty Gooseneck Microphones | 134 ~ 136 |
| Desk Paging Microphones | 137 |
| Multi-zone Desk Paging Microphones | 138 ~ 141 |
| Store & Forward Paging Microphones | 142 |
| Handheld Microphones | 143 ~ 145 |
| Headphones | 146 |
| Security Microphones | 147 ~ 148 |

Induction Loops

C2 Series: Cardioid/Hypercardioid Condenser Gooseneck Microphones

Cardioid Gooseneck microphone designed for use in controlled acoustic environments such as schools, universities and public address paging system.

Hypercardioid version for noisy environments such as financial establishments, transport termini and factory communications.

Features:

- · Optimised for speech clarity
- Unobtrusive slimline design
- Fully flexible or semi-rigid shafts
- · Choice of shaft length
- Choice of XLR or base-mounting
- Hypercardioid ideal for use in high ambient noise environments
- Engineered in high quality brass
- · Finished in satin black

Model Dimensions:

| Model: | Overall Length: | Shaft Diameter: |
|------------|-----------------|-----------------|
| C22E/CT22E | 180mm | 8mm |
| C22/CT22 | 200mm | 8mm |
| C23E/CT23E | 280mm | 8mm |
| C23/CT23 | 300mm | 8mm |
| C24E/CT24E | 380mm | 8mm |
| C24/CT24 | 400mm | 8mm |
| C25E/CT25E | 480mm | 8.5mm |
| C25/CT25 | 500mm | 8.5mm |

C=Cardioid / CT=Hypercardioid





Available Gooseneck Options



XLR Connector Mount: 3 or 5 pin male XLR, includes universal Phantom Power supply adaptor 9 ~ 48v with *selectable base cut filter and -10dB pre attenuation pad (*Non RF models only)



LED Halo: High bright Halo LED for speaker identification



ON/OFF Switch: Silent, magnetic ON/OFF switch with LED indicator (RF models only)



Knuckle Joint: Unique design feature allowing horizontal rotation and verticle angle adjustment



RF-Immunity Immune to RF artefacts - fully shielded against Radio Frequency Interference (RFI) from GSM devices operating in the 800MHz ~ 1.2GHz band width

| Model: | C2 Series | |
|---------------------------|--|---|
| Туре | Condenser (back electret) | |
| Polar Pattern | Cardioid (C) Hypercardiod (CT) | |
| Frequency Response | 70Hz ~ 14kHz ±3dB @ 1kHz (0dB = 1v/Pa) | 60 Hz ~ 12 kHz ± 3 dB @ 1kHz (0dB = 1 v/Pa) |
| Sensitivity | -47dB | - 51dB |
| Impedance | "E" Type Open Ended Type | 200 Ω 1.6k Ω |
| S/N Ratio | | 64dB(A) |
| Maximum SPL | | 115dB 1% THD |
| Power Requirements | "E" Type Open Ended Type Open ended 1.5 | 9 ~ 48v Phantom Power 1.5 ~ 9v max. through series resister |
| Optimum Operating Voltage | Open Ended Type | 6v |
| Switchable Bass Filter | "Е" Туре | - 4dB per octave at 400Hz to - 6dB per octave at 100Hz |
| Switchable Pad | "E" Type | - 10dB |
| Cable | Open Ended Type | 1m |
| Termination | "E" Type Open Ended Type | XLR M10 x 1 Thread with shake- proof washer and nut |
| Finish | Satin black | |

Iduction Loops

C3100: Short Gooseneck/C3 Slimline Gooseneck

Designed for use in boardrooms, conferencing and a wide variety of applications requiring easily detachable Gooseneck microphones with good consistant sound quality.

Features:

- Short flexible gooseneck
- Slimline unobtrusive design
- Engineered in high quality brass
- Tini QG connector for easy interchange
- Cardioid condenser microphone
- C3 series wideband quality
- Easy connection to SM20-RF, SM80-RF and SM80S-RF shock mounts, PPA-RF, S140-RF or CW9004 wireless microphone base
- Finished in satin black

Model Dimensions:

| Model: | Length | Shaft |
|---------|--------|------------|
| C3100 | 100mm | Semi-rigid |
| C310-R | 100mm | Rigid |
| C312-SR | 200mm | Semi-rigid |
| C313-SR | 300mm | Semi-rigid |
| C314-SR | 400mm | Semi-rigid |





| Model: | C 3 |
|--------------------|---|
| Туре | Condenser (black electret) |
| Polar Pattern | Cardioid |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | $-47dB \pm 3dB @ 1kHz (0dB = 1v/Pa)$ |
| Impedance | 200Ω |
| S/N Radio | 64dB(A) |
| Maximum SPL | 125dB 1% THD |
| Power Requirements | SM20-RF, SM80/PPA-RF, SM80S/PPA-RF, PPA-RF, S140-RF, CW9004 |
| Termination | 3 pin female Tini QG connector |
| Accessories | W2 Windshield included |
| Head Diameter | 12mm |
| Shaft Diameter | 6mm |
| Overall Length | 125mm |
| Net Weight | 0.29kg |
| Finish | Satin Black |



C3 Series: Cardioid Condenser Gooseneck & Knuckle Joint Microphones

Cardioid Condenser Microphones designed for use in conference halls, places of worship, broadcasting and paging systems. The Halo versions have been designed for use in conference and other situations where speaker identification is required.

- · Response optimised for consistent sound quality
- Unobtrusive slimline design

CLOCKAUDIO

- Superior grade components
- Choice of XLR or open ended base mounting
- High bright LEDs
- Engineered in high quality brass
- Finished in satin black
- Fully flexible or semi rigid gooseneck shaft
- Choice of shaft length
- C301/C301E fitted with knuckle joint giving both horizontal rotation and vertical angle adjustment

Model Dimensions:

| Model: | Overall Length | Shaft Diameter |
|------------------|-----------------------|----------------|
| C31E | 180mm | 8mm |
| C31 | 100mm | 8mm |
| C32E | 280mm | 8mm |
| C32 | 200mm | 8mm |
| C33E/C33E Halo | 380mm | 8mm |
| C33/C33 Halo | 300mm | 8mm |
| C34E/C34E Halo | 480mm | 8mm |
| C34/C34 Halo | 400mm | 8mm |
| C35E | 580mm | 8mm |
| C35 | 500mm | 8.5mm |
| C36E | 680mm | 8.5mm |
| C36 | 600mm | 8.5mm |
| C301E/C301E Halo | 180mm (Knuckle Joint) | 8.5mm |

Available Gooseneck Options



XLR Connector Mount: 3 or 5 pin male XLR, includes universal Phantom Power supply adaptor 9 ~ 48v with *selectable base cut filter and -10dB pre attenuation pad (*Non RF models only)



LED Halo: High bright Halo LED for speaker identification



ON/OFF Switch: Silent, magnetic ON/OFF switch with LED indicator (RF models only)



Knuckle Joint: Unique design feature allowing horizontal rotation and verticle angle adjustment



RF-Immunity Immune to RF artefacts - fully shielded against Radio Frequency Interference (RFI) from GSM devices operating in the 800MHz ~ 1.2GHz band width





Specifications:

| Model: | C3 Series | |
|---------------------------|--|--|
| Туре | Condenser (back electret) | |
| Polar Pattern | Cardioid | |
| Frequency Response | 50Hz ~ 18kHz | |
| Sensitivity | -47dB +/- 3dB @ 1kHz (0dB = 1 V/Pa) | - 51dB |
| Impedance | "E" Type Open Ended Type | 200 Ω 1.8k Ω |
| S/N Ratio | | 64dB(A) |
| Maximum SPL | | 125dB 1% THD |
| Power Requirements | "E" Type Open Ended Type | 9 - 48 volts phantom power 1.5 - 9 volts max. through series resistor |
| Optimum Operating Voltage | Open Ended Type | 6v |
| Switchable Bass Filter | "E" Type | 4dB per octave at 400Hz to 6dB per octave at 100Hz |
| Switchable Pad | "E" Type | - 10dB |
| Cable | Open Ended Type | 1m (3') |
| Termination | "E" Type Open Ended Type Open Ended Type | Male 3 Pin XLR Male 5 Pin XLR M10 x 1 Thread with shake- proof washer and nut |

HALO High Bright LED:

| Operating Voltage | 3.6v |
|-------------------|-------------|
| Operating Current | 30mA max. |
| Finish | Satin Black |

C800: Mini Shotgun Gooseneck Microphone

Slim, mini shotgun, hypercardioid microphones developed for speech purposes in a wide range of pro and live sound applications including places of worship, conference and leisure centres, banks and financial trading centres.

Features:

- Slim mini shotgun
- · Optimised for speech clarity
- Superior grade components
- Unobtrusive slim design
- Engineered in high quality brass
- Finished in satin black

Models:

| Model: | Termination: | |
|-------------|---|--|
| C800 | Unterminated | |
| C800-E | XLR Connector | |
| C800E-RF 🏈 | XLR Connector, RF-immunity | |
| C800ES-RF 🍘 | XLR Connector, RF-immunity with ON/OFF switch & LED | |



Specifications:

| Model: | C800 / C800E |
|------------------------|--|
| Туре | Condenser (back electret) |
| Polar Pattern | Hypercardioid |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB +/- 3dB @ 1kHz (0dB = 1 V/Pa) |
| Impedance | C800E: 200Ω / C800: 1.8kΩ |
| S/N Ratio | 64dB(A) |
| Maximum SPL | 125dB 1% THD |
| Power Requirements | C800E: 9 - 48v Phantom Power C800: 1.5 - 9v max. through series resistor Optimum operating voltage 6v |
| Switchable Bass Filter | C800E: 4dB per octave at 400Hz to - 6dB per octave at 100Hz |
| Switchable Pad | C800E: 10dB |
| Cable | C800: 2 metres |
| Termination | C800E: PPA Adaptor - Male XLR C800: M10 x 1 Thread with shakeproof washer and nut |
| Dimensions | C800E: 12(Ø)mm, 458mm overall length. With W8 windshield: 480mm C800: 12(Ø)mm, 375mm overall length. With W8 windshield: 397mm |
| Finish | Satin Black |

C801: Mini Shotgun Knuckle Joint Microphone

Slim, mini shotgun, hypercardioid condenser microphone suitable for speech in a wide range of pro and live sound applications including places of worship, conference and leisure centres, banks and financial trading centres.

Fitted with a knuckle joint giving both lateral and vertical adjustment.

Features:

- Slim mini shotgun fitted with a knuckle joint giving both lateral and vertical movement
- Optimised for speech clarity
- Superior grade components
- Unobtrusive slim design
- Engineered in high quality brass
- Finished in satin black

Models:

| Model: | Termination: |
|-------------|---|
| C801 | Unterminated |
| C801-E | XLR Connector |
| C801E-RF 🥙 | XLR Connector, RF-immunity |
| C801ES-RF 🥙 | XLR Connector, RF-immunity with ON/OFF switch & LED |



| Model: | C801 / C801E |
|------------------------|---|
| Туре | Condenser (back electret) |
| Polar Pattern | Hypercardioid |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB +/- 3dB @ 1kHz (0dB = 1 V/Pa) |
| Impedance | C801E: 200Ω / C801: 1.8kΩ |
| S/N Ratio | 64dB(A) |
| Maximum SPL | 125dB 1% THD |
| Power Requirements | C800E: 9 - 48v Phantom Power C801: 1.5 - 9v max. through series resistor |
| Switchable Bass Filter | C801E: 4dB per octave at 400Hz to - 6dB per octave at 100Hz |
| Switchable Pad | C801E: 10dB |
| Cable | C801: 2 metres |
| Termination | C801E: PPA Adaptor |
| Base Mounting | C801: Open ended C801: M10 x 1 Thread with shakeproof washer and nut |
| Dimensions | C801: 12(Ø)mm, 150mm overall length. With W8 windshield: 172mm C801E: 12(Ø)mm, 262mm overall length. With W8 windshield: 285mm |
| Finish | Satin Black |

• C815E-RF: Mini Shotgun Gooseneck Microphone • C816E-RF: Semi-Rigid Mini Shotgun Gooseneck Microphone Slimline, hypercardioid shotgun microphones for high quality speech in professional recording and live broadcasting applications. Engineered in high quality brass and finished in satin black.

Features:

- Slim mini shotgun
- Optimised for speech clarity
- Superior grade components
- Unobtrusive slim design
- Engineered in high quality brass
- Finished in satin black





| Model: | C815E-RF | C816E-RF |
|--------------------|---|--|
| Туре | Condenser (black electret) | Condenser (black electret) |
| Polar Pattern | Hypercardioid | Hypercardioid |
| Frequency Response | 50Hz ~ 18kHz | 50Hz ~ 18kHz |
| Sensitivity | -45dB +/- 3dB @ 1kHz (0dB = 1 V/Pa) | -45dB +/- 3dB @ 1kHz (0dB = 1 V/Pa) |
| Impedance | 200Ω | 200Ω |
| S/N Radio | 64dB(A) | 64dB(A) |
| Maximum SPL | 125dB 1% THD | 125dB 1% THD |
| Power Requirements | 9 - 48v phantom power | 9 - 48v phantom power |
| Termination | Male 3 Pin XLR | Male 3 Pin XLR |
| Dimensions | Head: 10(Ø) mm Shaft: 17(Ø) mm Overall Length: 315 mm | Head: 10(Ø) mm Shaft: 17(Ø) mm Overall Length: 440mm |
| Finish | Satin Black | Satin Black |

Cardioid condenser microphones mounted on twin rigid shafts vertically adjustable, individually, through 180°. Individually powered, providing live redundant capability so often required in a live broadcast situation. Finished in satin black.

- · Optimised for consistent sound quality
- Integrated Phantom Power Adaptor
- 5 pin XLR mounting
- · Shaft angles independently adjustable



Specifications:

| Model. | U420E |
|--------------------|-------------------------------|
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -44dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| S/N Ratio | 64dB(A) |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Male 5 Pin XLR |
| | |

C430E: Twin Mount Cardioid Condenser Microphone

Cardioid condenser microphones mounted on twin rigid shafts vertically adjustable, individually, through 180° .

Individually powered, providing live redundant capability so often required in a live broadcast situation. Finished in satin black.

Features:

- Integrated Phantom Power Adaptor
- 5 pin XLR mounting
- Shaft angles independently adjustable
- Three microphone head variants: C 900, C 3H & C 800H

Capsule Options available:





Specifications:

| Model: | C430E |
|--------------------|-------------------------------|
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -44dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| S/N Ratio | 64dB(A) |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Male 5 Pin XLR |

C440E: Twin Mount Cardioid Condenser Microphone

Cardioid condenser microphones mounted on twin rigid shafts vertically adjustable, individually, through 180°.

For use in a wide variety of applications including presentations, conferences, broadcasting and places of worship. Finished in satin black.

Features:

- Attractive slimline design
- Optimised for consistent sound quality
- Integrated Phantom Power Adaptor
- 3 pin XLR mounting
- Shaft angles independently adjustable



| Model: | C440E |
|--|--|
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -44dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter & -10dB Switchable Pad | Yes |
| S/N Ratio | 64dB(A) |
| Termination | Male 3 Pin XLR |
| Dimensions | 450 mm overall length, 7(Ø) mm rigid shafts |

Iduction Loops

C900: Combination Series

A series of easily interchangeable microphones, stands and shafts giving flexibility in choice of microphone and accessories for a wide range of applications including broadcast, conference halls, places of worship, leisure centres, etc. Finished in satin black.





Microphones:

| Model: | |
|--------|--|
| C900 | Rugged wide band cardioid condenser microphone for multiple use |
| СЗН | Short slimiline cardioid condenser microphone for use in controlled acoustic environments |
| C800H | Hyper-cardioid condenser mini shotgun microphone useful in a wide range of pro and live sound speech applications |

Specifications:

| Model: | C900 | СЗН | C800H |
|--------------------|-----------------------------|---|-------------------|
| Frequency Response | 50Hz ~ 20kHz | 50Hz ~ 18kHz | 50Hz ~ 18kHz |
| Sensitivity | -48dB | -47 dB ±3dB at 1kHz (0dB = 1v/Pa) | -47dB |
| Power Requirements | 1.8KΩ All mode | $1.8 \text{K}\Omega$ els 9 ~ 48v via a Phantom Power Adapt | 1.8KΩ or (PPA) |
| S/N Ratio | 68dB(A) | 64dB(A) | 64dB(A) |
| Termination | Male 3 pin Tini Q connector | | |
| Dimensions | 57 x 19 mm | 45 x 12 mm | 151 mm |

• CA700: Floor Standing 700mm Long Shaft

- CA700-RF: Floor Standing 700mm Long Shaft @
- CA900: Floor Standing 900mm Long Shaft
- CA900-RF: Floor Standing 900mm Long Shaft @

Long, rigid shafts of 700mm and 900mm respectively. Each connects to a short (350mm) upright shaft by a separate, lockable swivel joint allowing adjustments to angle, height and reach.

Features:

- Long Shaft includes Phantom Power Adaptor at bottom end terminated in Male 3 pin XLR
- Knuckle joint at microphone end terminated with Tini QG 3 pin female connector
- Short shaft connects to SM 155 floor mounting, shock absorbing base



• CA30: Semi Rigid 300mm Shaft

CA30-RF: Semi Rigid 300mm Shaft @

CA40: Semi Rigid 400mm Shaft

CA40-RF: Semi Rigid 400mm Shaft

Semi-rigid 300mm and 400mm shafts fitted with Phantom Power Adaptor at the bottom end terminated in Male 3 pin XLR and knuckle joint at tip with Tini QG 3 pin Female connector.

Features:

- Integrated Phantom Power Adaptor
- Male 3 pin XLR termination
- Finished in satin black



Loudspeakers



- CAK1: Phantom Power Adaptor
- CAK1-RF: Phantom Power Adaptor @

Phantom Power Adaptors with knuckle and Tini QG 3-pin Female



S750: Table Mounting Microphone Base

Table microphone base fitted with knuckle and Tini QG 3-pin Female connector.

Terminated with 3m of cable requiring a Phantom Power Adaptor. Diameter 75mm, height including connector 75mm.



SM155: Floor Mounting Microphone Base

Floor mounting, shock absorbing microphone base with a diameter of 155mm and 42.5mm height.



- C901E-RF: Ready-made 900 Series Microphone @
- C901ES-RF: Ready-made 900 Series Microphone with ON/OFF Switch & LED @

These 'ready-made' C 900 Series Microphones feature the C 900 cardioid condenser capsule and CAK Phantom Power Adaptor with knuckle joint for horiziontal rotation and verticle angle adjustment.

Features:

- Integrated Phantom Power Adaptor
- Male 3 pin XLR termination
- · Finished in satin black



C901E-RF

C901ES-RF

| Model: | C901E-RF / C901ES-RF |
|--------------------|-------------------------------|
| Frequency Response | 50Hz ~ 20KHz |
| Sensitivity | -48dB ±3dB @ 1KHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| S/N Ratio | 68dB(A) |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Male 3 Pin XLR |

C3SE: Suspended Cardioid Microphones

Slim, wide band, cardioid condenser microphone designed to be suspended in places of worship, conference halls, theatres, etc.

Features:

- Response optimised for consistent sound quality
- Short, flexible shaft with knuckle joint for easy adjustment of vertical angle
- · Made in high quality brass and finished in satin black or ivory
- 7.5m of cable attached
- Fully balanced and terminated in male 3 pin XLR
- Mounting plate option CP 73/73W

Models:

| Model: | Colour |
|------------|--------|
| C3SE | Black |
| C3SE-RF 🍘 | Black |
| C3SEW | lvory |
| C3SEW-RF 🥝 | lvory |



Specifications:

| • | |
|--------------------|--|
| Model: | C3SE Series |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| S/N ratio | 64dB(A) |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Male 3 pin XLR |
| Dimensions | Head:12(Ø) mm, Shaft: 6(Ø) x 100(L) mm |

C8SE: Suspended Hypercardioid Mini Shotgun Microphones

Slim, mini shotgun, hypercardioid condenser microphone designed to be suspended in places of worship, conference halls, theatres etc.

Features:

- Response optimised for consistent sound quality
- $\bullet\,$ Short, flexible shaft with knuckle joint for easy adjustment of vertical angle
- Made in high quality brass and finished in satin black or ivory with 7.5m of
- · Fully balanced and terminated in male 3 pin XLR
- Mounting plate option CP 73/73W

Models:

| Model: | Colour | |
|------------|--------|--|
| C8SE | Black | |
| C8SE-RF 🍘 | Black | |
| C8SEW | lvory | |
| C8SEW-RF 🍘 | lvory | |



Specifications:

| Model: | C8SE Series |
|--------------------|--|
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -67dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| S/N ratio | 64dB(A) |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Male 3 pin XLR |
| Dimensions | Head:12(Ø) mm, Shaft: 6(Ø) x 300(L) mm |

CP73: Ceiling Mounting Plate

Available in black or ivory versions, this ceiling mounting plate is for use with our C3SE and C8SE Suspended Microphones.

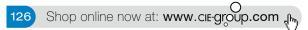
Models:

| Model: | Colour |
|--------|--------|
| CP73 | Black |
| CP73W | Ivory |



Plate Dimensions:

| Model: | CP73 / CP73W | |
|----------|--------------|--|
| Diameter | 73 mm | |
| Depth | 12 mm | |



Loudspeakers



SM20-RF: Microphone Shock Mount @

A low profile, through-table shock mount fitted with RF-immunity PPA with 3 pin Male Tini Q input connector.

Features:

- M25 threaded nut supplied
- · Made in high quality brass, top
- · Finished in satin black

Specifications:

| Model: | SM20-RF |
|----------------------|---------|
| Height Above Surface | 3mm |
| Diameter | 31mm |
| Body Diameter | 20mm |
| Depth Below Surface | 75mm |
| Mounting hole | 23.5mm |



• SM70: Microphone Shock Mount

Smooth, low profile 74mm diameter, surface fitting, shock absorbing microphone holder and base. Finished in matt black.



Specifications:

| Model: | SM70 |
|----------------------|------|
| Overall Diameter | 74mm |
| Height Above Surface | 10mm |
| Body Diameter | 51mm |
| Depth Below Surface | 50mm |

- SM75: Microphone Shock Mount with 3-pin XLR
- SM75x5: Microphone Shock Mount with 5-pin XLR

75mm diameter shock absorbing microphone base for permanent fitting above or below the surface.

Features:

- Supplied with female XLR and conversion adaptor for 3/8" BSW or 10mm screw fittings
- Finished in matt black

Specifications:

| Model: | SM75 |
|---------------|----------------------------|
| Height | 32mm 64mm including XLR |
| Base Diameter | 75mm |



SM80: Microphone Shock Mounts

Low profile, table-mounted shock mounts fitted with flip cover to conceal connector when closed.

Features:

- 3 pin & 5 pin XLR connector versions available
- Finished in satin nickel or matt black
- RF option also available (3 pin Male Tini QG)

Base Models:

| Model: | |
|-----------|--------------|
| SM80 | Standard |
| SM80S | Switch & LED |
| SM80-RF 🥙 | RF-immunity |

SM 80S model with remote momentary or latching switch facility and red LED:

| Model: | SM80 Series |
|----------------------|--------------------------------------|
| Height Above Surface | 3mm |
| Diameter | 58mm |
| Body Diameter | 51mm |
| Body Below Surface | XLR version 61mm RF version 166mm |





- SM93: Microphone Shock Mount 3 pin XLR
- SM95: Microphone Shock Mount 5 pin XLR

Low profile, recessed, shock absorbing microphone bases.

Features:

- 3 pin & 5 pin XLR connector versions available
- Wiring connections are made via 3-way/5-way screw terminal block
- · Finished in matt black



Specifications:

| Model: | SM93 / SM95 |
|----------------------|----------------------------|
| Length | 87mm |
| Width | 82mm |
| Height Above Surface | 9mm |
| Depth Below Surface | SM 93: 32mm SM 95: 22mm |

- \$133: Microphone Shock Mount @
- \$135: Microphone Shock Mount @
- \$140: Microphone Shock Mount @

These stylish, RF-Immune microphone bases feature fully-programmable touch pad switch & LED for PTT, PTM and latching.

Features:

- RF-immune
- · Heavy die-cast construction
- Touch pad switch
- Fully programmable
- LED indicator

Models:

| Model: | |
|--------|---|
| S133 | 3 pin XLR in, 3 pin XLR out |
| S135 | 3 pin XLR in, 5 pin XLR out |
| S140 | 3 pin Tini Q in, 5 pin XLR out with integrated PPA |



Specifications:

| Model: | S133 / S135 / S140 |
|--------------------|--|
| Switching | Touch pad fully programmable for PTT, PTM & Latching |
| Indication | Red LED |
| Power Requirements | 48v Phantom Power |
| Dimensions | 120(L) x 100(W) x 32(H)mm (60mm with XLR) |
| Weight | 0.64kg |

- \$120: Microphone Shock Mount
- **\$120\$:** Microphone Shock Mount with PTT Switch

Table microphone base fitted with M10x screw thread mounting hole.

Features:

• 'Press-to-Talk' or latching switch option



Specifications:

| Model: | S120 / S120S |
|----------|--------------|
| Height | 32mm |
| Diameter | 120mm |
| Weight | 1.86kg |

• S120X Series: Microphone Shock Mount

Table microphone base fitted with XLR connector.

Features:

- 'Press-to-Talk' or latching switch option
- 3 or 5 pin options

Models:

| Model: | |
|----------|------------------------------|
| S120X | 3 pin XLR |
| S120XS | 3 pin XLR & switch |
| S120X-2 | 3 pin XLR & 2m cable |
| S120XS-2 | 3 pin XLR, switch & 2m cable |
| S120X5 | 5 pin XLR |
| S120X5S | 5 pin XLR & switch |
| S120X5-2 | 5 pin XLR & 2m cable |
| S120XS-2 | 5 pin XLR, switch & 2m cable |



| Model: | S120X |
|----------|-----------------|
| Height | 57mm (with XLR) |
| Diameter | 120mm |
| Weight | 1.86kg |



CRM100-RF: Retractable Through-table Omni-directional Condenser Microphone

The CRM100-RF is a boundary layer, through-table, omni-directional condenser microphone with a built-in mechanism that will allow the user to make the microphone 'disappear' without having to physically remove it from the table.

This is achieved by simply pressing the top of the microphone downwards until it locks; then by pressing the microphone again it will raise itself back to its original position above the surface of the

Engineered in high quality brass with built-in shock mount and RF filter.

Features:

- · Easy to install
- · Low profile at surface level
- . Unique ability to lock capsule away from sight when not in use
- Robust brass construction
- Omni-directional polar pattern
- Built-in RF filter
- · Balanced output
- Supplied with 2m 2 core + screen cable
- Satin Nickel or Black Nextel finish



Specifications:

| Model: | CRM100-RF |
|--------------------|--------------------------------------|
| Туре | Condenser (Back Electret) |
| Polar | Pattern Omni-directional |
| Frequency | Response 30Hz ~ 20kHz |
| Sensitivity | -42.5dB +/- 3dB @ 1kHz (0dB = 1v/Pa) |
| Impedance | 200Ω |
| S/N Ratio | 68dB(A) |
| Maximum SPL | 120dB at 1kHz 1% T.H.D. |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Open ended |
| Dimensions | Above Table: 15mm Diameter: 36mm |
| | Below Table: 111mm Diameter: 30mm |

CRM102-RF: Retractable Through-table Cardoid Condenser Microphone

The CRM102-RF is a boundary layer, through-table, cardoid condenser microphone with a built-in mechanism that will allow the user to make the microphone 'disappear' without having to physically remove it from the table.

This is achieved by simply pressing the top of the microphone downwards until it locks; then by pressing the microphone again it will raise itself back to its original position above the surface of the

Engineered in high quality brass with built-in shock mount and RF filter.

Features:

- · Easy to install
- Low profile at surface level
- . Unique ability to lock capsule away from sight when not in use
- Robust brass construction
- · Cardioid polar pattern
- Built-in RF filter
- · Balanced output
- Supplied with 2m 2 core + screen cable
- Satin Nickel or Black Nextel finish



| Model: | CRM102-RF |
|--------------------|-------------------------------------|
| Туре | Condenser (Back Electret) |
| Polar | Pattern Half Cardioid |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB +/- 3dB @ 1kHz (0dB = 1v/Pa) |
| Impedance | 200Ω |
| S/N Ratio | 64dB(A) |
| Maximum SPL | 125dB at 1kHz 1% T.H.D. |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | Open ended |
| Dimensions | Above Table: 15mm Diameter: 36mm |
| | Below Table: 111mm |
| | Diameter: 30mm |

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CS-RF Series: Series Boundary Layer Professional Microphones

The CS Series (Consultant Series) was developed as a result of input and recommendations from key consultants in boardroom AV integration. The goal was to minimise the number of microphones on the conference table, but also keeping in mind performance, ease of installation and aesthetics, essential considerations in such projects.

The results of these discussions are the CS2-RF, CS3-RF and CS4-RF microphones.

Features:

- · Half cardioid polar pattern
- Fully balanced
- High quality engineering in solid brass
- · Non-reflective black Nextel or satin nickel

• CS2-RF:

Dual Element Boundary Microphone

The CS2-RF is a dual element boundary layer condenser microphone, with a half-cardioid polar pattern. It is designed to be placed in the middle of the conference table, with each element facing the participants.

This microphone accommodates bottom cable exit, for permanent mounting in boardroom situations.

These microphones are made of solid brass and include a 2m cable with open-ended termination. The Phantom Power Adaptor (PPA) is incorporated in the brass housing and will accept 9 \sim 48v DC (Phantom Power).

CS3-RF:

Triple Element Boundary Microphone

The CS3-RF microphone has the same characteristics as the CS2-RF with the addition of a third element.

This microphone is to be positioned closer to the end of the conference table in order to capture the participants facing each other and also the participant sitting at the extremity of the table.

If the participant at the end of the table is further away, it is then possible to use a combination of a CS2-RF and CS1-RF (single element version) to accommodate this situation.

• CS4-RF:

Quadruple Element Boundary Microphone

The CS4-RF is a new addition that completes the CS-RF Series microphone family, offering a 4-element microphone in a single housing. Like the CS2 and 3, the CS4-RF offers half cardioid polar patterns and a bottom cable exit.

The CS4-RF can be positioned in the centre of a round conference table, giving maximum coverage from a small footprint. Engineered from high quality solid brass and finished in a durable non-reflective black Nextel or satin nickel.

The CS4-RF is also available in other customised colours and special finishes upon request.







| Model: | CS-RF |
|--------------------|-------------------------------|
| Microphone | Condenser (back electret) |
| Polar Pattern | Half cardioid |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| S/N Ratio | 64dB(A) |
| Termination | Open ended multi-core cable |

C002E-RF: Low Profile Boundary Microphone

Omni-directional, low profile, boundary layer condenser professional microphone. Ideal for applications such as conference tables, floors, pianos, etc.

Features:

- Omni-directional polar pattern
- Wide range, smooth response
- Very low profile
- Stone grey Nextel finish

Specifications:

| Model: | C002E-RF |
|--------------------|-----------------------------------|
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB ±3dB at 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| S/N Ratio | 64dB(A) |
| Termination | Male 3 pin XLR |
| Dimensions | 75(Ø) x 9(D)mm |



C006E: Low Profile Boundary Microphone

Half cardioid small, light, sensitive professional boundary layer condenser microphone for use in a wide range of AV applications, including conference, lectern and theatre.

Features:

- Half cardioid polar pattern
- · Fully balanced
- Low profile
- Stone grey Nextel finish

Specifications:

| Model: | C006E |
|--|-----------------------------------|
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -48dB ±3dB at 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter & -10dB Switchable Pad | Yes |
| S/N Ratio | 64dB(A) |
| Termination | Male 3 pin XLR |
| Dimensions | 39(Ø) x 16(D)mm |



C008E: Tabletop Boundary Microphone

C008E-RF: Tabletop Boundary Microphone (RF)

This cardioid boundary layer condenser microphone is particularly suitable for speech purposes in a wide range of pro and live sound applications including conference, lectern and theatre.

Features:

- · Cardioid polar pattern
- · Fully balanced
- High quality engineering in solid brass
- Concealed cable and fixing screw mounting
- Stone grey Nextel finish

Specifications:

| • | |
|--------------------|-----------------------------------|
| Model: | C008E |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -47dB ±3dB at 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| S/N Ratio | 64dB(A) |
| Termination | Male XLR |
| Dimensions | 70(Ø) x 22(D)mm |



C009E-RF: Large Surface Boundary Microphone

Omni-directional boundary layer condenser microphone for easy use on large surfaces in a wide range of professional sound situations. Ideal for mounting on walls, floors, pianos,

Features:

- Omni-directional polar pattern
- Wide range, smooth response
- Very low profile
- · Stone grey Nextel finish

Specifications:

| Model: | C009E-RF |
|--------------------|-------------------------------------|
| Frequency Response | 30Hz ~ 20kHz |
| Sensitivity | -42.5dB ±2dB at 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| S/N Ratio | 68dB(A) |
| Termination | Male 3 pin XLR |
| Dimensions | 160(Ø) x 9(D)mm |





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- C003E: Through-table Boundary Microphone (Omni-directional)
- **C004E:** Through-table Boundary Microphone (Cardioid)

Omni-directional (C 003E) or Cardioid (C 004E) boundary layer condenser microphones designed for a wide range of installed audio, conferencing or security applications.

Features:

- · Engineered in high quality brass
- · Balanced output
- Simple through-table shock mounting
- Finished in satin black or matt white

Models:

| Model: | Colour |
|-----------|--------|
| C003E | Black |
| C003EW | White |
| C003E-RF | Black |
| C003EW-RF | White |
| C004E | Black |
| C004EW | White |
| C004E-RF | Black |
| C004EW-RF | White |



Specifications:

| Model: | C003E-RF | C004E-RF |
|--------------------|---|----------------|
| Polar Pattern | Omni-directional | Cardioid |
| Frequency Response | 20Hz ~ 20kHz | 100Hz ~ 16kHz |
| Sensitivity | -42dB -47dB ±3dB at 1kHz (0dB=1v/Pa) | |
| Impedance | 200Ω | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power | |
| S/N Ratio | 58dB(A) | 60dB(A) |
| Termination | Male 3 pin XLR | Male 3 pin XLR |

- C011E-RF: Through-table Boundary Microphone (Omni-directional)
- C012E-RF: Through-table Boundary Microphone (Cardioid)

These through-table omni (C 011E-RF) and cardioid (C 012E-RF) microphones were created for applications demanding sonic quality, but also requiring an extremely robust housing within an extreme environment.

Features:

- RF-immune
- · Balanced output
- · Simple through-table shock mounting
- Finished in satin black or matt white

Models:

| Model: | Colour |
|-----------|--------|
| C011E-RF | Black |
| C011EN-RF | Nickel |
| C012E-RF | Black |
| C012EN-RF | Nickel |

Specifications:

| Model: | C011E-RF | C012E-RF |
|--------------------|-----------------------|----------------------|
| Polar Pattern | Omni-directional | Cardioid |
| Frequency Response | 50Hz ~ 20kHz | 50Hz ~ 18kHz |
| Sensitivity | -42dB ±3dB at 1kHz | -47dB (0dB=1v/Pa) |
| Impedance | 200Ω | 200Ω |
| S/N Ratio | 58dB(A) | 60dB(A) |
| Termination | Male 3 nin XI R | Male 3 nin XI R |

- C015E-RF: Tabletop Boundary Microphone (Omni-directional)
- C016E-RF: Tabletop Boundary Microphone (Cardioid)

New style omni-directional (C 015E-RF) and cardioid (C 016E-RF) boundary layer condenser microphones featuring programmable touch pad switching for professional AV applications such as meetings, conference and lectern installations.

Optimised for speech clarity, these RF-immunity boundary microphones feature built-in Phantom Power module and are finished in satin black.

| Specifications: | | | | |
|--------------------|--|-----------------------------------|--|--|
| Model: | C 015E-RF | C 016E-RF | | |
| Туре | Conde | Condenser (Back Electret) | | |
| Frequency Response | 50Hz ~ 20kHz 50Hz ~ 18kHz | | | |
| Sensitivity | -42dB ±3dB @ 1kHz (0dB = 1vPa) | -47dB ±3dB @ 1kHz (0dB = 1vPa) | | |
| Impedance | 200Ω | 200Ω | | |
| Switching | Programmable for PTT PTM & Latching | | | |
| Power Requirements | 48v Phantom Power | | | |
| S/N Ratio | 58dB(A) | 60dB(A) | | |
| Termination | Male 5 pin XLR (optional 3 pin XLR variant), with remote switch ability. | | | |





C007E Series: 'Button' Boundary Microphones

Omni-directional, boundary layer condenser microphones suitable for surveillance and recording in sensitive areas such as banks, airports, railway stations, law courts, conference and convention centres.

Very low profile and easily mounted with M12 x 1 nut and washer supplied.

Features:

- Non-reflective Delrin with non-conductive body (Non-RF only)
- · Omni-directional
- · High quality engineering

Models:

| Model: | |
|--------------|--------------------------|
| C007 | Unterminated |
| C007E | XLR Connector |
| C007E-RF 🍘 | XLR Connector, RF-immune |
| C007E-LED-RF | XLR, RF-immune, LED |

Specifications:

| Model: | C007 | C007E | C007E-RF |
|--|-------------------------------------|------------------------------|---|
| Frequency Response | 50Hz ~ 20kHz | 50Hz ~ 20kHz | 50Hz ~ 20kHz |
| Sensitivity | -42.5 | 5dB ±2dB at 1kHz (0dB=1v/Pa) | |
| Impedance | 1kΩ | 200Ω | 200Ω |
| Power Requirements | 2 ~ 10v max through series resistor | 9 ~ 48v Phantom Power | 9 ~ 48v Phantom Power (12v DC for LED version) |
| Switchable Bass Filter & -10dB Switchable Pad | - | Yes | - |
| S/N Ratio | 40dB(A) | 40dB(A) | 58dB(A) |
| Termination | Open-ended | Male 3 pin XLR | Male 3 pin XLR with PPA-RF |
| Dimensions: Head Diameter | 20 mm | 20 mm | 20 mm |
| Dimensions: Overall Length | 25 mm | 25 mm | 25 mm |

| Model: | |
|--------------|--------------------------|
| C007 | Unterminated |
| C007E | XLR Connector |
| C007E-RF 🍘 | XLR Connector, RF-immune |
| C007E-LED-RF | XLR, RF-immune, LED |



CH32: (Litetouch) Dual Colour Halo Ring & Touch Pad Switch

Comprising a dual-colour Halo ring and switch combination that can be used with all Clockaudio through-table products, the Litetouch allows users to easily identify the status of microphones, as well as mute the units for privacy.

With no moving parts, the switch is touch-sensitive, so there are no clicking noises when switching from one status to another. Both the switch and the Halo have been designed to operate remotely with all popular brands of electronic system control, so an integrator has complete freedom to assign function and LED colour.

Importantly, the Litetouch can be easily retrofitted to any Clockaudio through-table microphone product.

Features:

- Designed for remote switching
- Housing 32 LEDs to give 360° illumination
- 12, 24v DC operation
- Current consumption 40mA
- Retrofittable to all Clockaudio through-table microphones
- Fitted with 5 way socket terminal block supplied with fixing screws



| Model: | CH32 | |
|---------------------|---|--|
| Туре | Dual Colour Halo Ring & Touch Sensitive Switch | |
| LED Colour | Red and Green | |
| Operating Voltage | 12, 24v DC (Regulated). For 24v DC operation a 300Ω 1W resistor must be put in series with both the green and red LED wires. | |
| Current Consumption | 40mA | |
| Termination | 5 way socket terminal block (with fixing screws) | |
| Dimensions | 39(W) x 5(H) x 48(D) xmm | |
| Hole Diameter | 25 mm | |

Portable P.A



C98: Gooseneck Microphone (Cardioid)

• C100: Gooseneck Microphone (Omni-directional)

A range of microphones designed for use where voice clarity is an essential requirement and offering both moving coil and electret capsules fitted to fully flexible or part flexible/rigid goosenecks.

Capsules are mounted in a computer-matched acoustic chamber fitted with an 'anti pop' blast screen. A stainless steel mesh protects the capsule from physical damage.

Moving coil capsule: With a polar diagram approximating to cardioid, this capsule has a significantly flat frequency response within speech range, with an added 'presence' lift at 3KHz.

Electret capsule: The polar diagram is unidirectional in characteristic and has a wide frequency response.

Mounting Options:

The mounting options for C98 and C100 are subject to additional cost and require the code suffix to be added to the order code:

/UMC Circular universal mounting base; for right angled or parallelwith-surface mounting; 3 hole fixing to mounting surface.

Block mounting base; providing 2 hole fixing to mounting • /UBC surface and right angled or parallel-to-surface microphone assembly.

Other mounting accessories for XLR terminated microphones:

 DT37 XLR socket fitted to adjustable angle mount; for desk/ lectern top fitting.

 AV260 Desk/lectern mounting anti-vibration mount; gooseneck XLR inserts firmly through centre, with compressing ring lock.

XLR socket fitted to base with 'Press-to-Talk' switch and 5 • DB-XLR pin XLR output.





| Model: | C98 | C100 |
|----------------------|--------------------------------------|---|
| Impedance @ 1kHz | 300Ω floating | 600Ω unbalanced |
| Polar Characteristic | Cardioid, approx | Omni-directional |
| Frequency Response | 100Hz ~ 8kHz Presence lift @ 3kHz | 100Hz ~ 15kHz |
| Polarising Voltage | - | 1.5 ~ 9v DC from host amplified or related source |
| Sensitivity | -72dB | -68dB |



F86 Series: Heavy Duty Gooseneck Microphones

The F86 range of gooseneck mounted, omni-directional, noise-reducing microphones provide maximum versatility combined with ease of installation.

Microphones for mobile and fixed use are included in the range, together with various end-fittings, alternative gooseneck lengths and accessories. Used in taxis and public service vehicle installations, they are also widely used for marine and heavy industrial applications.

- Computer-aided head design/capsule matching is used to obtain the required frequency response and maximum signal-to-noise characteristics
- A new one-piece head assembly, combined with the locking of the gooseneck to the head and end-fittings, deters tampering and vandalism
- The rugged dynamic microphone capsule provides optimum clarity over the speech frequencies and is fully protected for use in high humidity environments
- A line pre-amplifier is incorporated in the optional MFPA base-mounting
- A 'Press-to-Talk' switch can be fitted between the head and the gooseneck, or at the gooseneck base

Order Codes:

| Model: | Description: |
|--|---|
| F86/C0 | Dynamic gooseneck microphone, with head mounted PTT switch, 50mm |
| F86/15 | Dynamic gooseneck microphone, forward facing, 150mm |
| F86/30 | Dynamic gooseneck microphone, forward facing, 300mm |
| F86/45 | Dynamic gooseneck microphone, forward facing, 450mm |
| Units are available in 600Ω and Please state when ordering. | od 2400 Ω and can be fitted with a series of base options below |
| •/UM | Circular universal base |
| •/UB | Block mounting base |
| •/MFPA | Circular flange base with pre-amp |
| •/DB | Round heavy duty desk base |
| •/PTT | Single pole PTT switch, mounted at the top (/T) or base (/B) of the gooseneck |





| Model: | F86 Series | |
|--------------------|------------------------------|--|
| Frequency Response | 300Hz ~3.5kHz | |
| Impedance | $600 \text{ or } 2400\Omega$ | |
| Output Level | -54dB @ 1kHz | |
| Finish | Anodised black | |
| Dimensions | Gooseneck length to capsule: | F86/15: 150 mm F86/30: 300 mm F86/45: 450 mm |
| Finish | Black PVC covered | |

• D33: 300mm Dynamic Gooseneck

• D34: 400mm Dynamic Gooseneck

Dynamic cardioid gooseneck microphones designed for speech purposes in a variety of commercial audio applications.

Features:

- Rugged all-metal construction
- Response optimised for speech
- Fully flexible or semi-rigid shaft
- · Finished in satin black

Model Dimensions:

| Model: | Overall Length | Connection Type |
|--------|----------------|-----------------|
| D33 | 300mm | Base Mount |
| D33E | 350mm | 3 pin XLR |
| D34 | 425mm | Base Mount |
| D34E | 475mm | 3 pin XLR |

Specifications:

| opcomoations. | | |
|--------------------|--|---------------------------------|
| Model: | D33 | D34 |
| Frequency Response | | 150Hz ~ 12kHz |
| Sensitivity | | -63.5dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω | |
| Termination | M10 x 1 thread with shakeproof washer and nut or Male 3 pin XLR | |
| Head Diameter | 20 mm | |
| Gooseneck Diameter | 10 mm | |
| Gooseneck Length | 300 | 0 mm 400 mm |

- D43: 300mm Dynamic Gooseneck
- **D44:** 400mm Dynamic Gooseneck

Dynamic cardioid gooseneck microphones suitable for speech purposes in a variety of commercial audio applications.

Features:

- Rugged all-metal construction
- Response optimised for speech
- · Finished in satin black

Model Dimensions:

| Model: | Overall Length | Connection Type |
|--------|----------------|-----------------|
| D43 | 300mm | Base Mount |
| D43E | 350mm | 3 pin XLR |
| D44 | 400mm | Base Mount |
| D44E | 450mm | 3 pin XLR |



| Model: | D43/E | D44/E | |
|--------------------|--|-----------------------------|--|
| Frequency Response | | 150Hz ~ 12kHz | |
| Sensitivity | -60 | 0dB ±3dB @ 1kHz (0dB=1v/Pa) | |
| Impedance | | 200Ω | |
| Termination | M10 x 1 thread with shakeproof washer and nut or Male 3 pin XLR | | |
| Head Diameter | 22mm | 20mm | |
| Gooseneck Diameter | 10mm | 8mm | |
| Gooseneck Length | 300mm | 400mm | |



- BUD100: Single-zone, moving coil Microphone
- BUD200: Two-zone, electret Microphone
- BUD100E: Single-zone, moving coil Microphone
- BUD200E: Two-zone, electret Microphone

These simple yet robust paging microphones are available in single and 2-zone versions. Featuring a gooseneck mounted microphone well known for its voice clarity in almost any operating environment.

Ideal for applications such as shops, offices, garages, showrooms, transport termini; wherever there is a need for an elegant, yet strong paging microphone able to withstand heavy duty usage.

Each microphone has a $2.5\mathrm{m}$ lead and requires only the fitting of an interface connector to suit the host amplifier.

Features:

- Suitable for passive or electronic access amplifiers
- Microphone incorporates speech blast screen
- Soft-touch 'Press-to-Talk' button/s, with minimal noise transfer
- All steel construction, weighted base, finished in scratch and chip resistant powder coat paint
- Anti-slip feet
- Fitted with a moving coil microphone capsule, perfect for most amplifier input sensitivities. For less sensitive amplifiers an electret version is available; requires DC powering from host amplifier
- 2.5m lead (free end)



| Model: | BUD100 / BUD200 BUD100E / BUD200E | |
|-----------------------------------|---|---|
| Microphone | Moving Coil | Electret |
| Sensitivity | Suitable for all amplifiers with at least 500uV (0.5mV) sensitivity | Suitable for all amplifiers with at least 1mV sensitivity |
| Impedance | 600Ω | 600Ω |
| Characteristics | Polar diagram approximates to cardioid presence lift at 3kHz | Omni-directional |
| Frequency Response | ±6dB,100Hz ~ 12kHz | ±6dB, 100Hz ~ 12kHz |
| Polarising Voltage | - | At least 4.5~9v max applied between polarised lead & ground |
| Polarising Current | - | 400uA |
| Signal-to-Noise | - | Better than 40dB |
| Press-to-Talk Cabling Supplied | 'Soft touch', momentary action, push button (2-on-2 zone) 2.5m screened mic pair + access pair/s | |
| Finish | Desk top: pearl white powder coat. Desk base: satin black powder coat Gooseneck & mic: matt black | |
| Dimensions | Base: 110(W) x 40(max H) x 140(D) mm Gooseneck length to capsule: 260mm | |
| Weight | 0.7kg | |



- DM105/CT: Five-zone Paging Microphone
- DM110/CT: Ten-zone Paging Microphone

Incorporating 'soft-touch' zone selection, 'Press-to-Talk' and 'All-Call' switches to ensure no pops or clicks are heard when activated. LED indicators are provided to show the user which zone has been selected.

The elegant, yet robust gooseneck allows the user to position the microphone in the optimum position for high quality speech reproduction.

Soft plastic feet stop the units from slipping around the reception desk/counter surface when being used and 'key hole' slots are provided on the base to allow wall mounting.

Designed to operate with conventional relay switch systems, both versions are supplied with 1.5m 15-way 'D' type-to-open end leads, making installation quick and simple.

Features:

- 5/10 zone paging
- All Call
- Flexible Robust Gooseneck
- · Wall mounting feature



| Model: | DM105/CT DM110/CT | |
|---|--|--|
| Output Sensitivity | Mic Level: 1mv Line Level: 500mv | Mic Level: 1mv Line Level: 500mv |
| Output Impedance | Mic Level: 60Ω Line Level: 600Ω | Mic Level: 60Ω Line Level: 600Ω |
| Characteristics | Polar diagram approx to cardioid, presence lift @ 3kHz | Polar diagram approx to cardioid, presence lift @ 3kHz |
| Frequency Response | ±6dB, 100Hz ~ 8kHz | ±6dB, 100Hz ~ 8kHz |
| 'Press-to-Talk'/'All Call' Zone Selection | 'Soft touch' momentary action push button 'Soft touch' latching action | 'Soft touch' momentary action push button 'Soft touch' latching action |
| Terminations | 15 Way 'D' male to 15 Way 'D' male to unterminated open end (1.5m) 15 Way 'D' male to | |
| Finish | Desk top: grey Desk base: satin black powder coat Gooseneck & mic: matt black | Desk top: grey Desk base: satin blac powder coat Gooseneck & mic: matt black |
| Dimensions | Base: 130(W) x 50(H) x 170(D) mm Gooseneck length to capsule:260mm | |



DPM102B: Single-zone Pro Desk Paging Microphone

DPM202B: Two-zone Pro Desk Paging Microphone

A range of pre-amplified paging microphones designed to meet the highest standards, where voice clarity is an essential requirement regardless of operating environment.

Aesthetic, elegant design is the first impression obtained from this high quality desk paging microphone series with fully flexible gooseneck. Available in single and two zone format.

Features:

- Pre-announcement 'gong'; switch selectable, this enables individual
 paging microphones within a system to prelude announcements with a
 simple, but attention grabbing, gong sound
- Paging sound level indicator, comprising a VU scaled composite 3 LED array
- Provision for plug-in digital sound processing (DSP) technology for automatic background noise level reduction (DSP350)
- 'Soft gate', noise-free, microphone audio activation and closure
- 'Press-to-Talk' button/s physically protected against accidental use
- 'Speak now' or 'system-in-use' LEDs, installer option
- Electronic or VOX access receptive to match host amplifier facilities
- · Provision for local or remote powering
- Long line 0dBm 600 Ω output, optionally available at 'microphone' level by on-board switch selection
- Basalt grey finish, satin silver base, anti-slip feet
- The standard capsule is moving coil electret, with noise-cancelling microphone capsule options available by special order
- Supplied with WC15W easy to connect wall connector plates



DSP350: Digital Signal Processor

Eliminate noise with DSP350 technology:

Digital Signal Processing (DSP) technology is used to electronically remove unwanted background noise from speech which enables announcements to be more easily understood. The technology is self- adapting to changing noise environment, no 'training' of the noise filter is required.

Installers can adjust the level of noise suppression to system requirements; the residual background noise still sounds natural, but up to 30dB lower.

Models:

| Model: | Description: |
|----------|---|
| DPM102B: | Single-zone with 600Ω line pre-amplifier with proximity auto bass cut and limiter |
| DPM202B: | Two-zone with 600Ω line pre-amplifier with proximity auto bass cut and limiter |
| DSP350: | Digital signal processor; increases the difference between unwanted background noise and speech announcements, even where this noise is at the same level as the announcement; plugs into DPM102/202, preset noise attenuation of up to 30dB |

| Model: | DPM Series |
|--------------------|---|
| Output Level | Switchable 0dBm, 600Ω source or -20dBm, 60Ω source |
| Matching Impedance | 600Ω both @ microphone level and amplified line level option |
| Frequency Response | Unlimited: ±3dB 100Hz, bass-cut on limit variable with voice proximity to -18dB @ 100Hz, proximity level limiting max 26dB |
| Powering | 24v DC; normal or phantom powering @ 100mA max when using DSP350, 20mA without. 15 way 'D' interface for easy system integration and facility selection A 1.8m lead is supplied, free-end unterminated, stripped and tinned, for fitting an installation interface connector appropriate to the facilities required. |
| Dimensions | Base: 130(W) x 50(H) x 170(D) mm Gooseneck length to capsule: 290mm |



 DPM102B/FM: Single-zone Wall-mount Paging Microphone

 DPM202B/FM: Two-zone Wall-mount Paging Microphone

Developed from the standard DPM102B/202B Pro-Series, these microphones offer the same functionality but in a flush mounting

Supplied with a recessed backbox (MK LN5268) as standard, the microphone panel is attached via tamper-proof security type

The heavy-duty, 3mm powder-coated front plate is designed to be robust and withstand day-to-day use in retail, transport and industrial applications. The 130mm flexible gooseneck, whilst shorter than the standard unit fitted to the DPM102B/202B, allows the microphone to be firmly positioned for the user without sagging or movement.

Features:

- Pre-announcement 'gong'; switch selectable, this enables individual paging microphones within a system to prelude announcements with a simple, but attention grabbing, gong sound
- · Paging sound level indicator, comprising a VU scaled composite 3 LED
- Provision for plug-in digital sound processing (DSP) technology for automatic background noise level reduction (DSP350)
- · 'Soft gate', noise-free, microphone audio activation and closure
- 'Press-to-Talk' button/s physically protected against accidental use
- 'Speak now' or system in use LEDs, installer option
- Electronic or VOX access receptive to match host amplifier facilities
- Provision for local or remote powering
- ullet Long line 0dBm 600 Ω output, optionally available at 'microphone' level by on-board switch selection



Order Codes:

| Model: | |
|-------------|---|
| DPM102B/FM: | Single-zone 600Ω line pre-amplifier with proximity auto bass cut and limiter |
| DPM202B/FM: | Two-zone 600Ω line pre-amplifier with proximity auto bass cut and limiter |

Specifications:

| Model: | DPM102B/FM / DPM202B/FM |
|--------------------|--|
| Output Level | Switchable 0dBm, 600Ω source or -20dBm, 60Ω source |
| Matching Impedance | 600Ω both @ microphone level and amplified line level option |
| Frequency Response | Unlimited: ±3dB 100Hz, bass cut on limit variable with voice proximity to -18dB @ 100Hz, proximity level limiting max 26dB |
| Powering | 24v DC; normal or phantom powering @ 100mA max when using DSP350, 20mA without |
| Dimensions | Base: 140(W) x 202(H) mm (Backbox 114(W) x 175(H) mm) Gooseneck length to capsule: 130 mm |

• PRE600/P: Microphone-to-Line Pre-Amplifier

The PRE600/P provides the ability to convert a standard microphone output to a variable line level output, especially useful if the microphone is located a distance from the host equipment.

Features:

- PRE600/P can easily be retrofitted to a system to provide a solution to overcome low signal problems
- Housed in a robust metal housing which can be wall or desk mounted, the unit may be powered by 24v DC via the host equipment or local plug top
- An internal bass cut and speech level limiter provides a stable output to the amplifier system whilst all connections are made via a 15W 'D'-type



| Model: | PRE600/P |
|-------------------|--|
| Input Sensitivity | Better than 500 μ V, suitable for 200, 600 Ω microphone |
| Output Level | Switchable 0dBm, 600Ω sources or -20dBm, 60Ω source |
| Powering | 24v DC, switch selectable for 'normal' or 'phantom' power sourcing, normal powering via in-built co-axial 2.5mm DC socket or on 15 way 'D' |
| Connectivity | 15 Way male 'D' connector |
| Dimensions | 130(W) x 50(H) x 168(D) mm |



DPM105/CAT: Self-cancelling 5-zone

Paging Point

DPM110/CAT: Self-cancelling 10-zone

Paging Point

ZRU010/CAT: 1U Rack-mounting Relay/

Zone Processor

These new Pro-Range 5 and 10 zone self-cancelling paging points operate exclusively with the rack-mounted ZRU010 relay interface and central logic processor for up to 10 zones.

Whilst most system designers will switch zones of loudspeakers, this system is sufficiently versatile to operate between pre-amplifiers, 600Ω signal sources or with individual zone amplifiers.

Each paging point incorporates audio compression; an in-built preannouncement 'gong' is a link-selectable option.

Communication and digital signalling between the ZRU010 central processor and each paging point uses standard CAT5 cabling - significantly saving on expensive cable installations!

Features:

- The system provides fully automatic 'All-Call'
- Pre-selection of zones prior to paging, self-cancelling after use
- Whilst waiting for paging access to the system, users can pre-select (reserve) their zones to be paged
- One paging point can be designated to have overall priority in the system
- Up to 8 paging points can comprise a multizone system (mixed 5 & 10 zones)
- 'Press-to-Talk'/'All-Call': momentary action button with LED indicating 'All-Call' or system occupied
- Zone selection: momentary action, electronic locking, buttons with individual LED to confirm selection acceptance
- Paging point output: utilises CAT5 cabling technology and is suitable for cabling lengths of up to 300m, unshielded





| Model: | DPM105/CAT | DPM110/CAT |
|------------------------|---|---|
| Press-to-Talk/All-Call | Momentary action button | Momentary action button |
| Zone Selection | Momentary action, electronic locking buttons with individual confirmation LEDs | Momentary action, electronic locking buttons with individual confirmation LEDs |
| Paging Point Output | 0dBm, 600 Ω , balanced, with pre-announcment gong provision | OdBm, 600Ω, balanced, with pre-announcment gong provision |
| Zone Relay Load | Will accept the output of a 250W amplifier, line voltage up to 100v or 600Ω line level switching | Will accept the output of a 250W amplifier, line voltage up to 100v or 600Ω line level switching |
| Power Requirement | 24v DC ~ 30v 150mA | 24v DC ~ 30v 150mA |
| Cabling Requirements | CAT5, 4 pair unshielded | CAT5, 4 pair unshielded |
| Finish | Microphone body: light grey Microphone top: basalt grey Microphone and Gooseneck: matt black | Microphone body: light grey Microphone top: basalt grey Microphone and Gooseneck: matt black |
| Dimensions | DPM105: 130(W) x 168(H) x 50(D) mm ZRU010: 483(W) x 170(H) x 43(D) mm | DPM110: 240(W) x 168(H) x 50(D) mm ZRU010: 483(W) x 170(H) x 43(D) mm |
| Weight | 0.95kg | 1.4kg |



DPS402: Store & Forward Paging Microphone

- Operating as a normal 'live' paging microphone, the paging announcement is made and stored for broadcast
- The delay between paging completion and broadcast is internally pre-set on installation to 5, 15, 30 or 60 seconds
- · Announcements may be pre-set on installation to be automatically repeated once, twice, three or four times, after which they are self
- Announcements can be up to 2 minutes in duration
- An announcement can be manually cancelled at any time, including during the original recording, if an error is made or the operator is interrupted
- An internal chime can be selected to pre-announce any messages Alternatively, any pre-announcement chime already included in the host system can be triggered by DPS402; the announcement is automatically paused until the chime sequence is completed
- DPS402 works with electronic or VOX accessed amplifiers. The microphone output can be at 'normal' or line level by 'D' pin selection
- If the host system is multi-tasked various functional inputs and is equipped with 'system busy' outputs, DPS 02 will not broadcast whilst the system is in another use; if a priority use activates during a DPS402 announcement this will override the announcement which will recommence from its beginning after priority use ceases



This is identical in function to DPS402 except that a facility to record and store up to 3 announcements that require individual or collective timed repeat is incorporated.

Examples would be to advertise 'special offers' in stores and supermarkets or to announce a delay in flight departure at an

- Timed repeats The user can select a repeat time of 5, 15, 30 or 45 minutes between replays or they can be remotely triggered at any time, for an evacuation message for example.
- Simple to operate To record an announcement for repeated use, the user simply selects 'ENABLE' mode and proceeds with the announcement, which can be up to 1 minute in duration and manually cancelled at any time





| Model: | DPS400 | DPS402 |
|------------------------|--|--|
| Audio Output | 775mv, 600W source 5mv 600Ω source | 775mv, 600W source 5mv 600Ω source |
| DC Powering | 24v DC @ 100mA | 24v DC @ 100mA |
| Interface | 15 way 'D' male | 15 way 'D' male |
| Interface DC Supply | 2.5mm DC power socket, also available on 15 way connector | 2.5mm DC power socket, als available on 15 way connect |
| Frequency Response | 200Hz ~ 8kHz | 200Hz ~ 8kHz |
| Access Out Port | Dry contact closure when DPS wishes to access host system | Dry contact closure when DP wishes to access host system |
| Access In Port | Remote Advert start | - |
| Busy In Port | If activated will not allow DPS to access host system | If activated will not allow DPS to access host system |
| Pause for Chime Report | 4 seconds to allow for host system chime; selectable option to in-built chime | 4 seconds to allow for host system chime; selectable option to in-built chime |
| Activity Display Port | By 'hi-bright' LEDs | By 'hi-bright' LEDs |
| Facilities | Storage for up to 3 announcements/adverts each of up to 60 secs duration, these may be individually played, or as a sequenced group, at intervals of 5, 15, 30 or 45mins, front panel selected | Store'n'Forward of a paging announcement up to 2mins duration. 'Repeat Frequency' 1, 2, 3, 4 times peeat Delay': 5, 15, 30, 60 secs 'Preset on Installation' |
| Desk Top | Basalt grey powder coat | Basalt grey powder coat |
| Desk Base | Satin black powder coat with anti-slip feet | Satin black powder coat with anti-slip feet |
| Gooseneck/Microphone | Matt black | Matt black |
| Base Dimensions | 130(W) x 50(H) x 170(D) mm | 130(W) x 50(H) x 170(D) mm |
| Weight | 0.9kg | 0.9kg |

D500: Cardioid Dynamic Handheld Microphone

D500S: Cardioid Dynamic Handheld Microphone (with ON/OFF switch)

Versatile, professional dynamic cardioid hand held microphone designed for a wide variety of vocal, speech and instrument applications. It has a wide smooth response, with neodymium magnet for high sensitivity and balanced output.

The 500S model has a silent magnetic reed ON/OFF switch.



Features:

- Rugged die-cast metal construction
- · Cardioid polar pattern
- Wide, smooth response
- Balanced output
- Black, soft-touch finish for reduced handling noise
- Supplied in a presentation case

Specifications:

| Model: | D500 |
|--------------------|----------------------------------|
| Frequency Response | 50Hz ~ 16kHz |
| Sensitivity | -55dB ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 500Ω balanced |
| Termination | Male 3 pin XLR |



C650E: Cardioid Condenser Handheld Microphone

Professional cardioid condenser handheld microphone designed for vocal and speech applications.

Features:

- Rugged metal construction
- Wide response
- Shock mount suspension
- Balanced output
- Nextel finish

Specifications:

| Model: | C650E |
|--|----------------------------------|
| Frequency Response | 50Hz ~ 20kHz |
| Sensitivity | -48dB ±3dB @ 1KHz (0db=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter & -10dB switchable Pad | Yes |
| S/N Ratio | 68dB(A) |
| Termination | Male 3 pin XLR |
| Dimensions | Length: 225 mm Head: 49(Ø) mm |



C600: Slimline Condenser Microphone

Professional slimline hand held cardioid condenser microphone designed for a wide range of vocal and speech applications. Also suitable for many musical instrument applications.

Features:

- · Cardioid polar pattern
- Balanced output
- Engineered in high quality brass
- Finished in satin black

| Model: | C600 |
|--|-----------------------------------|
| Frequency Response | 50Hz ~ 20kHz |
| Sensitivity | -47dB ±3dB at 1kHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter -10dB Switchable Pad | Yes |
| S/N Ratio | 64dB(A) |
| Termination | Male 3 pin XLR |
| Dimensions | Length: 165 mm Head: 20(Ø) mm |





Supercardioid broadcast, film sound reinford

C850E: Shotgun Supercardioid Microphone

Supercardioid shotgun microphone for use in broadcast, film/video recording and theatre sound reinforcement.

Wide, smooth response and fully balanced output.

Features:

- Superior grade components
- Selectable bass roll-off and 10dB pad
- XLR termination
- · Finished in satin black

Specifications:

| Model: | COEOE |
|--|----------------------------------|
| Model: | C850E |
| Frequency Response | 50Hz ~ 20kHz |
| Sensitivity | -48dB ±3dB @ 1kHz (0db=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter & -10dB switchable Pad | Yes |
| S/N Ratio | 68dB(A) |
| Termination | Male 3 pin XLR |



• D525E: Dynamic Supercardioid ENG Microphone

Designed for electronic news gathering and video production.

Features:

- Die-cast housing and steel grille screen
- Long shaft for easy handling
- Neodymium alloy magnet
- Optional soft protective case
- Finished in soft-touch satin black

Specifications:

| Model: | D525E |
|--------------------|----------------------------------|
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -54dBv (1.6mv/Pa) |
| Impedance | 300Ω |
| Termination | Male 3 pin XLR |
| Dimensions | Length: 294 mm Head: 47(Ø) mm |



D550E: Dynamic Omni-directional ENG Microphone

Designed for reporting, interviewing and news gathering.

Features:

- High sensitivity Neodymium alloy magnet
- Patented shock suspension
- Long shaft for easy handling
- Die-cast housing and steel grille screen
- Finished in soft-touch satin black

| Model: | D550E |
|--------------------|----------------------------------|
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -54dBv (1.6mv/Pa) |
| Impedance | 300Ω |
| Termination | Male 3 pin XLR |
| Dimensions | Length: 294 mm Head: 47(Ø) mm |





SM110: Table Microphone Stand

Heavy, stable, shock-absorbing table microphone stand with SA3 microphone holder.

Features:

- Steel construction finished in satin black with neoprene shock mount for the microphone holder
- Overall height incl. microphone holder: 85 mm
- Base diameter: 110 mm
- Weight: 0.77kg



SA 3: Microphone Holder & Stand Adaptor

Small swivel microphone holder and stand adaptor with $5/8" \sim 3/8"$ female thread.

Features:

- Finished in black plastic to avoid damage and microphone scratching
- Suitable for C 600 hand held microphone and all gooseneck microphones mounted on standard PPA (Phantom Power Adaptor)



SA 5: Microphone Holder & Stand Adaptor

Swivel microphone holder and stand adaptor suitable for D500 Series handheld microphones.

Features:

 With 5/8" ~ 3/8" female thread and black rubber finish resistant to damage and microphone scratching



\$210X: Boom Stand

Microphone floor stand and boom arm combination. Folding base for ease of transport. Long legs for added stability.

Specifications:

| Model: | S210X |
|-----------------|---------------|
| Boom Arm Length | 840mm |
| Finish | Black |
| Height | 900 ~ 1605 mm |
| Weight | 3.2kg |



F237: Aluminium Fishpole

Lightweight, adjustable 3-piece aluminium tube used for the remote positioning of microphones for recording and broadcasting.

Rough textured hand grips and secure locking rings. Protective carrying case included.

| Model: | F237 |
|--------|---------------|
| Finish | Black |
| Height | 950 ~ 3220 mm |
| Weight | 0.8kg |



H500: Monitor Headphones

Studio quality, cost-effective monitor headphones, featuring removable jack-to-mini jack cable and soft case cover.

Features:

- Wide frequency response
- Closed diffused studio headphones
- Enhanced bass response
- High SPL capacity
- Excellent isolation from ambient noise

Specifications:

| Model: | H500 |
|-----------------|--|
| Туре | Dynamic closed-back circumaural |
| Sensitivity | 96dB SPL ±3dB @ 1mw |
| Frequency | 15Hz ~ 22kHz |
| Max Input Power | 500mw |
| Impedance | 24Ω |
| TDH | <0.3% |
| Cable | Plug-in single cable approx 3m |
| Connector | Gold-plated mini stereo jack |
| Stereo Adaptor | Gold-plated mini stereo jack to ¼" screw-on-adaptor |
| Weight | 0.37kg |



AH3000: Active Protection Stereo Headphones

Designed as ear defenders for protection against hazardous noises with the ability to set essential listening levels to each ear to hear normally.

Suitable for use in a wide range of noisy environments including industrial and building locations, transport termini and sports and leisure locations.

Features:

- · Defender system maintains preset listening level
- · Wide bandwidth for natural sound to the ear
- Individual listening level adjustment for each ear
- Batteries operate for up to 50 hours from
- · Finished in cobalt blue Nextel with black trim

Specifications:

| Model: | AH3000 |
|---------------------|---|
| Headphones | Micro dynamic |
| Design | Circumaural |
| Frequency Response | 20Hz ~ 18kHz |
| Sensitivity | 104dB ±3dB @1kHz |
| Ear Cup Attenuation | 29dB |
| Microphone | Condenser (back electret) |
| Powering | 3.6v 70mAH Ni-MH rechargeable batteries |
| Connector | Unterminated |
| Weight | 0.42kg |



- H100: Ear Defender Headphones
- **HS1000D:** Ear Defender Talk-back with Dynamic Microphone
- **HS1000E:** Ear Defender Talk-back with Condenser Microphone

The HS1000 is a ruggedly built headset with a choice of dynamic or condenser microphone, designed for a wide range of applications such as theatres, concert halls and studios. The earpieces effectively reduce high surrounding noise and equally contain the received sounds when working in quiet environments.

Features:

- Wide band headphones
- · Robust boom assembly
- Comfortable padded ear cups giving high ambient noise attenuation
- · Finished in cobalt blue Nextel with black trim



| Model: | HS1000D | HS1000E | |
|-----------------|------------------|-------------------------------------|--|
| Microphone | Dynamic | Condenser (back electret) | |
| Polar Pattern | Noise cancelling | Noise cancelling | |
| Frequency Range | 150Hz ~ 10kHz | 100Hz ~ 10kHz | |
| Impedance | 300Ω | 1.6ΚΩ | |
| Powering | 1.5 ~ 9v DC thro | 1.5 ~ 9v DC through series resistor | |
| Cable Length | 2m | 2m | |
| Connector | Unterminated | Unterminated | |
| Weight | 0.5kg | 0.5kg | |







WP600: Wall-Mounted Microphone

The WP600 is a flush-mounting microphone designed for applications in the retail and industrial sectors, providing a wall-mounting paging point for till positions, security locations and building access points,

Generally for indoor use, the unit has a shock-mounted microphone capsule positioned behind a 3mm thick, 2 gang aluminium panel. The capsule is protected by a pin-proof screen to stop abuse and to ensure the unit is in working order when needed.

Connections to the unit are made via push-fit screw terminals and give the option of NO and NC operations for both the microphone output and switched voltage free contacts.

Features:

- Rugged aluminium faceplate
- · Security mounting screws
- · Shock-mounted capsule
- Selectable mic output (NO/NC)
- Selectable switched output (NO/NC)



Specifications:

| Model: | WP600 |
|-----------------------|-------------------------------|
| Product IP Rating | IP62 |
| Microphone Capsule | Dynamic |
| Frequency Response | ±6dB, 300 ~ 3500kHz |
| Impedance | 600Ω (2400 $Ω$ special order) |
| Output Level | -57dB @ 1kHz |
| Finish | Basalt grey, powder coat |
| Dimensions | 90(W) x 150(H) mm |
| Minimum Backbox Depth | 40 mm |

- **VP892/600:** 600Ω Impedance Vandal-proof Microphone
- **VP892/2400:** 2400Ω Impedance Vandalproof Microphone

The VP892 is a vandal-proof microphone with push switch and 'active' LED mounted on a UK double-gang switchplate designed to fit on backboxes of at least 40mm depth.

The switchplate is stainless steel with integral microphone grille designed for close-talk use; the entire assembly is showerproof to IP67 and designed for use in public places or in a manufacturing process where variable sistance is judged to be appropriate or heavy-handed use an expectation.

Features:

- 'Push-to-Talk' switch and 'active' LED
- Rugged stainless steel faceplate
- IP67-rated
- 'Pin-proof' microphone capsule



| Model: | VP892 |
|-----------------------|-------------------------------|
| Product IP Rating | IP67 |
| Frequency Response | ±6dB, 300Hz ~ 3.5kHz |
| Impedance | 600Ω (2400 $Ω$ special order) |
| Output Level | -57dB @ 1kHz |
| Finish | Stainless steel |
| Dimensions | 86(W) x 146(H) mm |
| Minimum Backbox Depth | 30mm |

CLOCKAUDIO

• SEC09: Omni-directional 'Fire Detector'-Housed Microphone

The SEC09 has been designed for security and surveillance applications. Offering easy mounting to walls or ceilings, the SEC09 has the appearance of an ordinary fire detector.

Electronics housed within the SEC09 offer screw terminals, eliminating the need for connectors.

Features:

- Omni-directional
- Built-in line level pre-amp
- Selectable sensitivity switching
- 9 ~ 48v Phantom power switchable for 12 ~ 24V dc operation
- Pick up range of 15 metres
- Red LED status indicators
- Sturdy ABS housing
- Easy to install
- Universal mounting to electrical conduit boxes



Specifications:

| Model: | SEC09 |
|-----------------------|-------------------|
| Frequency Response | 50Hz ~ 12kHz |
| Impedance | 75Ω |
| Sensitivity | 1.4v/PA |
| Dimensions | 55(H) x 105(Ø) mm |
| Minimum Backbox Depth | 30 mm |

Wiring Information:

| Model: | SEC09 |
|--------------------------------|--|
| Input: Pin 1 Pin 2 Pin 3 Pin 4 | +24v AC / 12v DC Phase + Phase - GND / -ac/dc |
| Line level set up | Switch pins 7, 5, 3 to ON |
| Phantom Power set up | Switch pins 8, 6, 4 to ON |

• FM280: Dynamic Fist Microphone

A rugged fist microphone designed for use in high quality close-talk mobile or fixed applications; ideal for noisy environments such as factories, airside at airports and for two-way communications in taxicabs, buses, helicopters, construction sites and fire & rescue vehicles.

Features:

- The dynamic microphone capsule is shock-mounted within the housing, constructed from virtually unbreakable ABS plastics, contoured for safe, convenient handling
- The 'Press-to-Talk' grip switch, engineered for heavy use, operates 2 single-pole contact pairs; one pair mutes the microphone capsule when not in use, the other can be used as 'dry' contacts for system access or
- 4 core heavy-duty coiled lead to free end
- · Spring-mounted clip for easy storage



| Model: | FM280 |
|-----------------------|--|
| Microphone Housing | ABS plastic moulding |
| Capsule | Dynamic omni-directional |
| Sensitivity | -75dB ±3dB @ 1kHz |
| Impedance | 200Ω |
| Frequency Response | ±6dB, 300Hz ~ 6kHz |
| PTT Switch | 2 Switch pairs: microphone - red/white access - blue/black |
| Operating Temperature | 0°C ~ +55°C |
| Dimensions | 45(W) x 100(H) x 45(D) mm |
| Weight | 0.2kg |



Amplifiers

Audio Signal Processing



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\$CHIRYO

UNITY SYSTEM 1H: VHF 16 Channel Handheld System

- UNITY SYSTEM 1BT:
 VHF 16 Channel Beltpack/Tieclip System
- UNITY SYSTEM 1BH:
 VHF 16 Channel Beltpack/Headset System

The new Unity System 1 Series of VHF 16 Channel Wireless Microphone Systems brings high performance and simplicity together to provide a full range of ready to use, complete systems.

Supplied in strong, lightweight ABS cases for safe storage and transportation. $\ensuremath{\,^{\circ}}$

Features:

- 16 Channel VHF
- High sensitivity and excellent image rejection
- Single compander design
- Pilotone control
- True Diversity reception
- Half-19" Receiver casing
- Balanced audio output (XLR) / Unbalanced audio output (phono jack)
- Selectable MIC or LINE output level
- RF test function
- AF, RF and Diversity LED bar indicators





| Model: | UNITY SYSTEM 1 SERIES |
|-------------------|-----------------------|
| Frequency Range | 160 ~ 260MHz |
| Channels per Band | 16 Selectable |
| Special Functions | Compander, Pilotone |

| Transmitters: | |
|---------------|--|
| Controls | ON/OFF, Channel Set, Gain |
| Power | 3 x AA batteries. Up to 16 hours operating time* |

| Receiver: | |
|----------------|--|
| Display Screen | LCD bar indicators |
| Antennas | Compact (supplied). High gain external (optional) |
| Controls | ON/OFF, Channel Select, Squelch, Volume Control, RF Test |
| Indicators | AF, RF, Power On |
| Outputs | Balanced/Unbalanced |
| Power | 12v DC via 230v PSU |

 $^{^{\}star}$ Measured with high quality ('Duracel' Alkaline) batteries

Loudspeakers

UNITY SYSTEM 7H:

UHF 100 Channel Handheld System

• UNITY SYSTEM 7BT:

UHF 100 Channel Beltpack/Tieclip System

UNITY SYSTEM 7BH:

UHF 100 Channel Beltpack/Headset System

The new Unity System 7 Series of UHF 100 Channel Wireless Microphone Systems utilise the highest quality technology and components for true high performance, multichannel, wireless sound.

These high specification UHF systems offer 100 channel selection for greater control and resistance to interference.

Supplied as ready to use, complete systems and housed in strong, lightweight ABS cases for safe storage and transportation.

Features:

- 100 factory preset user-selectable UHF frequencies
- Advanced microprocessor control, with improved signal performance for interference-free, multi-channel operation
- · Auto Scan function searches for the cleanest frequency
- True Diversity for highest quality reception with no dropouts
- Battery signal indicator on receiver panel monitors transmitter battery status
- · LCD on both receiver and transmitter
- High sensitivity, high selectivity and high image/spurious rejections
- Anti-interference Pilotone control and RF Noise Squelch circuitries
- Balanced and unbalanced audio outputs
- Rack mountable with 19" rack mount kit (optional)
- UP, DOWN, MENU, SET function buttons
- White-in-blue LCD display
- RF/AF signal strength, Diversity A/B indicators
- Easy to read, programmable, multi-function LCD



Specifications:

| Model: | UNITY SYSTEM 7 SERIES |
|-------------------|-----------------------|
| Frequency Range | CH38: 600 ~ 900MHz |
| Channels per Band | 100 Selectable |
| Special Functions | Compander, Pilotone |

| Transmitters: | |
|----------------|--|
| Display Screen | LCD, Channel/Frequency, Sensitivity, Battery Level indicator |
| Controls | ON/OFF, Gain, Channel Set |
| Power | 2 x AA batteries. Up to 12 hours operating time* |

| Receiver: | |
|--------------------------|--|
| Display Screen | LCD showing full function read out |
| Antennas | Compact (supplied). High gain external (optional) |
| Controls | Volume, Channel, Auto Scan, Squelch via LCD readout |
| Indicators | Diversity reception, Weak TX Battery Alarm, RF & AF signal strengths |
| Outputs | Balanced/Unbalanced |
| Power | 12v DC via 230v PSU |
| * Moseurod with high aus | ality ('Duracel' Alkaline) hatteries |

^{*} Measured with high quality ('Duracel' Alkaline) batteries





Need help choosing the right product?
Call our technical support team now on:

Tel. +44(0)115 977 0075

†CHIAYO

• The Chiayo range of Portables and Wireless Microphone Systems are available with a whole host of options, accessories and 'separates' to enhance or expand your system, including:

Microphone Options for use with all UHF & VHF Systems:

(Must be used with Beltpack Transmitter)

Models:

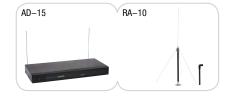
| Model: | Description |
|--------|-------------------------------------|
| MC-76X | Slimline Headset Microphone |
| MC-73X | High Performance Headset Microphone |
| MC-70X | Aerobics Headset Microphone |
| MC-15X | Tieclip Microphone (Cardioid) |
| MC520X | Tieclip Microphone (Omni) |
| MC75X | Collar Microphone |



Unity System 1 Accessories:

Models:

| Model: | Description |
|--------|---------------------|
| AD-15 | VHF Antenna Divider |
| RA-10 | VHF Remote Antenna |



Unity System 7 Accessories:

Models:

| Model: | Description |
|--------|-------------------------|
| AD-85 | UHF Antenna Divider |
| RA-80 | UHF Remote Antenna |
| AB-80 | UHF Antenna Booster |
| DA-80 | UHF Directional Antenna |



All Unity System Accessories:

Models:

| Model: | Description |
|--------|--|
| FM-800 | Front-mounting Antenna Extender |
| MP-50 | Rackmount Kit for UHF & VHF Receiver Units |
| MP-12 | Rackmount Filler Panel |



CW9000 Series: UHF Multi-channel Radio Microphone System

Versatile, flexible and easy to use, multi-channel system with two receiver, full diversity reception. UHF operation for resistance to interference (bands within the range 630 \sim 960MHz according to local regulation). 192 PLL pre-selectable channels per band. Compact half rack size, full diversity receiver with full controls, comprehensive LED display and balanced/unbalanced outputs.

Available with a choice of beltpack transmitter with lavalier microphone, handheld transmitter microphone or our innovative new wireless desktop base mounts for use with Clockaudio's full range of gooseneck microphones.

Each transmitter option features LCD display for frequency and battery status, easy-to-use controls for ON/OFF, frequency selection and AF levels. A full range of included and optional accessories are also available to complement the CW9000 Series.



CW9000R: UHF Receiver

Specifications:

| Model: | CW9000R |
|---------------------|--|
| System FM Carrier | UHF |
| Frequency Range | 630 ~ 960MHz (bands according to regulation) |
| Channel Frequencies | 192 PLL selectable channels per band |
| Frequency Stability | ± 0.005% |
| S/N Ratio | >100dB |
| Audio Output Level | -12dB |
| AF Output Impedance | 600Ω |
| Squelch | 'Pilot Tone' and 'Noise Mute' |
| Power | External 12v DC; 500mA |



CW9000T: UHF Handheld Radio Microphone

Specifications:

| Model: | CW9000T |
|-------------------------|--|
| Microphone | Dynamic Cardioid |
| LCD Display Information | Frequency, AF level and battery status |
| Power | 2 x AA batteries giving more than 10 hours use |



CW9001T: UHF Beltpack Transmitter

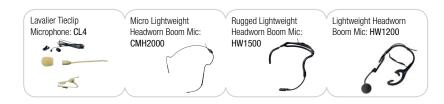
Specifications:

| Model: | CW9001T |
|---------------------|--|
| System FM Carrier | UHF for reduced interference |
| Frequency Range | 630 ~ 960MHz (bands according to regulation) |
| Channel Frequencies | 192 PLL selectable channels per band |
| RF Output | 10mW |
| Frequency Stability | ±0.005% |
| Frequency Deviation | ±48kHz |
| Frequency Response | 50Hz ~ 15kHz |
| Dynamic Range | > +110dB |
| Controls | Power ON/OFF, Frequency and AF level set |



Beltpack Microphone Options

(see page 156 ~ 157 for details)



Induction Loops

- **CW9004T:** UHF Desk Wireless Microphone Transmitter Tini QG XLR
- CW9005T: UHF Desk Wireless Microphone Transmitter - Built-in Microphone
- CW9006T: UHF Desk Wireless Microphone Transmitter - XLR

Microphones for use with CW 9004T Unit (See page 119 for full specifications):

| Model: | Length | Shaft |
|---------|--------|------------|
| C3100 | 100mm | Flexible |
| C310-R | 100mm | Rigid |
| C312-SR | 200mm | Semi-rigid |
| C313-SR | 300mm | Semi-rigid |
| C314-SR | 400mm | Semi-rigid |



CW9004T





CW9005T

CW9006T

Specifications:

| Model: | CW9004T | CW9005T | CW9006T |
|--------------------------|---|--|-------------------|
| Frequency Range | 630 ~ 960MHz (According to local regulation) | | |
| Channel Frequencies | 192 P | LL selectable channels per frequency b | and |
| Polar Pattern | - | Omni-directional | - |
| Audio Bandwidth | - | 50Hz ~ 18kHz | - |
| RF Output | 10mW | | |
| Frequency Deviation | ±48kHz | | |
| S/N Ratio | > 102dB | | |
| Audio Frequency Response | 50Hz ~ 15kHz | | |
| Dynamic Range | >+110dB | | |
| LCD Information | Frequency and battery status | | |
| Switching | Programmable touch switch and LED indicator | | |
| Power Supply | 2 x AA batteries giving more than 9 hours use | | |
| Output | - | - | 24v Phantom Power |
| Connections | 3 Pin Tini Q Mini XLR | - | 3 Pin XLR |
| Dimensions & Weight | 115(W) x 40(H) x 125(D) mm / 0.4kg | | |

• CU2: Intelligent Battery Charger

Features:

- Processor controlled
- · Built-in active monitoring circuitry
- Pulse charging system
- Temperature sensor
- Two dedicated compartments for charging two CW9004T, CW9005T or CW9006T Transmitters
- Charging time: 6 hours
- Input 90 ~ 260v AC Output 12v DC 1.25A Power Supply:



Wireless Microphone Accessories

S210X (shown here with C816E microphone)

The S 210-X has a fixed height, folding, long legged stand with a die-cast base for stability and ease of transport. Fitted with a 3 pin XLR connector at the base and the top. Overall height 1023 mm. (For use with CW 9006T Transmitter)



AA9000: Antenna Distribution Amplifier

Specifications:

| Model: | AA9000 |
|----------------------------|-----------------------|
| Carrier Frequency | 470 ~ 870MHz |
| Antenna Inputs | 2 (BNC) |
| Antenna Outputs | 4 x pairs (BNC) |
| Output Connector Isolation | 24dB |
| Nominal Cascade Gain | 3dB |
| Inline Antenna Power | 12v DC, 120mA |
| Power Supply | 4 x 12v DC |
| Mains Input Voltage | 90 ~ 264v AC 50/60 Hz |



CW9000C: Interchangeable Microphone Head

Specifications:

| Model: | CW9000C |
|--------------------|---------------------------|
| Туре | Condenser (Back Electret) |
| Polar Diagram | Cardioid |
| Frequency Response | 60Hz ~ 18kHz |
| Impedance | 400Ω |
| Sensitivity | -50dB (0dB=1v/Pa) |



AB9000: Antenna Booster

| Model: | AB9000 |
|----------------------|---------------|
| Carrier Frequency | 470 ~ 870MHz |
| Antenna Gain | 1.8dBi |
| Booster Gain | 0dB +2/-1 |
| Antenna Coverage | 360° |
| Operating Voltage | 12 ~ 18v DC |
| Inline Antenna Power | 12v DC, 120mA |



CMH2000: Micro Lightweight Headworn Microphone (Black)

CMH2000B: Micro Lightweight Headworn Microphone (Beige)

An extremely lightweight and low profile professional microphone for use in theatres, presentations, broadcast studios and places of worship. Shaped and lightly sprung to fit any head contour and remain in place even during high activity. Flexible boom arm for optimum positioning of microphone.

Features:

- Omni-directional back electret condenser microphone
- Perspiration drip barrier to protect microphone
- Wide band, smooth response
- · Black or beige, easy-clean finish

Specifications:

| Model: | CMH2000 |
|--------------------|--|
| Microphone | Condenser (back electret) |
| Polar Pattern | Omni-directional |
| Frequency Response | 30Hz ~ 18kHz |
| Sensitivity | -33dB ±3dB @ 1kHz 0dB=1v/Pa) |
| Impedance | 4.4kΩ |
| Power Requirements | 1.5 ~ 9v (Standard operating voltage 1.5v) |
| Termination | Tini Q Female 4 pin connector |



HW1500: Rugged Lightweight Headworn Microphone

Rugged and lightweight microphone for use in presentations, commentaries, broadcast reporting and by instructors - waterproof microphone makes it particularly suitable for aerobic and fitness instructors. Shaped, lightly sprung and with headband to fit all head contours comfortably and remain in place even with vigorous activity.

Features:

- Plastic injected headband, gooseneck and capsule head for protection against corrosion
- Flexible boom arm for optimum positioning of microphone
- · Waterproof bi-directional close talking back electret condenser microphone with smooth low feedback response

Specifications:

| Model: | HW1500 |
|--------------------|--|
| Microphone | Condenser (back electret) |
| Polar Pattern | Bi-directional close talking with W15 Windshield |
| Frequency Response | 300Hz ~ 5kHz |
| Sensitivity | -44db ±3dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 1kΩ |
| Power Requirements | 1.3 ~ 12v (Standard operating voltage 1.5v) |
| Termination | Tini Q Female 4 pin connector |





• HW1200: Lightweight Headworn Microphone

A lightweight cardioid microphone for use in presentations, guided tour systems and telesales applications.

| Model: | HW1200 |
|--------------------|---|
| Microphone | Condenser (back electret) |
| Polar Pattern | Cardioid |
| Frequency Response | 50Hz ~ 18kHz |
| Sensitivity | -50db @ 1kHz (0dB=1v/Pa) |
| Impedance | 680Ω |
| Power Requirements | 1.5 ~ 9v DC (standard operating voltage 1.5v) |
| Termination | Tini Q Female 4 pin connector |





CTH100: Throat Microphone

This throat microphone has been engineered to provide superb speech intelligibility even in high background noise environments.

Special attention has been given to ensure a comfortable wear over long durations with ergonomic strap and transducer housing design.

Features:

- Available with a variety of IP67 terminations and PTT switches
- Water immersion resistant
- Rugged and durable



Specifications:

| Model: | CTH100 |
|-----------------------|---|
| Generating Element | Electret Condenser |
| Frequency Response | 350Hz ~ 8kHz |
| Sensitivity | Equivalent output to standard microphones |
| Current Drain | 0.54mA @ 2.5v through 2.2kW |
| Bias Voltage | 2.5 ~ 6v DC |
| Output Impedance | 900Ω |
| Operating Temperature | -20°C ~ +70°C |
| Storage Temperature | -40°C ~ +70°C |
| Weight | 0.05kg |

- CL4: Lavalier Omni-directional Microphone (Black)
- CL4B: Lavalier Omni-directional Microphone (Beige)

Ultra miniature, omni-directional lavalier condenser microphone suitable for hands-free applications in pro-audio. Available in black or beige, complete with windshield and tie clip.



| Model: | CL4 |
|--------------------|--|
| Frequency Response | 50Hz ∼ 18kHz |
| Sensitivity | -44dB @ 1kHz (0dB=1v/Pa) |
| Impedance | 1kΩ |
| Power Requirements | 1.5 ~ 9v (standard operating voltage 1.5v) |
| Termination | Tini Q Female 4 pin connector |













Amplifiers

Audio Signal Processing

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| Accessories | 164 ~ 167 |
| Guided Tour Wireless Systems - UHF | 168 |

***CHIAYO**





Coach400: Wireless Portable PA System (Wired Mic or UHF)

The new Coach 400 is an ideal 'personal' portable PA system, designed to be worn over the shoulder for walking tour guides, demonstrations and coaching or mounted on the Chiayo ST-30 tripod for use in classrooms, lecture theatres, trade fairs, etc.

Supplied as standard with handheld wired microphone, the Coach 400 can also be supplied with the SQ5016AT UHF handheld wireless microphone, or SM5016 beltpack & headset/tieclip microphone options.

This stylish, compact and lightweight little unit features an in-built 25W class D amplifier, 4" full-range loudspeaker, rechargeable battery and USB 2.0 MP3 player. Other features as standard include 2 alarm sounders for emergency broadcasting, Aux inputs & outputs and detachable shoulder strap for ease of carrying.

Features:

- High efficiency output power with built-in 25W class D power amplifier
- Truly wireless! Battery operation eliminates all cables so you can take it
- 4" full range speaker system
- USB 2.0 MP3 player with LCD display
- 16 Channel UHF microphone receiver
- 2 alarm sounds for emergency broadcasting
- Lithium battery offers extended operation time and minimises weight and size
- 3.5mm stereo Aux In/Out connectors
- Can be worn over the shoulder or mounted on ST-30 tripod stand
- Suitable for indoor and outdoor applications

See page 166 for a full range of accessories.







| Model: | Coach400 |
|--------------------|--|
| Output Power | 25W (RMS) |
| Speaker System | 4" full range |
| THD | <0.5% |
| Audio Inputs | Mic In / Aux In / USB2.0 |
| Audio Outputs | Aux Out |
| Power Supply | 230v 1.5A/20v DC 2.5A |
| Battery Type | 14.8v/2.4AH (Lithium) |
| Operating Life | Music: 5 ~ 6 hours, Voice: 10 ~ 12 hours |
| Charging Time | 4 hours (approx.) |
| Frequency Response | 50Hz ~ 20kHz ±3dB |
| Dimensions | 156(W) x 156(H) x 205(D) mm |
| Weight | 1.6kg |

ction Loops

***CHIRYO**







 Focus System 16H: Focus 505 with Handheld Mic (UHF)

Focus System 16BH: Focus 505 with Headset Microphone (UHF)

Focus System 16BT: Focus 505 with Tieclip Microphone (UHF)

The new design Focus 505 has to be one of the most compact, lightweight, full-function portable systems there is!

This little unit features internal UHF microphone receiver, built-in 30W amplifier, full-range loudspeaker, CD with pitch control and USB MP3 player - all squeezed into a box no bigger than A4!

With output power and sound quality you'd expect from something much bigger, the Focus 505 is capable of coverage up to $400 \rm{m}^2$.

Main Features:

- Truly wireless! Battery operation eliminates all cables for true portability
- Choice of wireless microphone options (Beltpack or Handheld)
- Choice of single or dual channel microphone receivers
- CD player with pitch control, plus complete USB MP3 player & IR remote control
- Built-in 30W amplifier
- Built-in 61/2" full range speaker
- MIC IN / AUX IN with dedicated volume control
- AUX OUT to connect to PA system or input of AV system
- Loudspeaker Output for Focus extension speaker
- Charging / battery status indicators
- Tone control
- Tripod mountable (ST-40)
- Dual power supply AC or DC operation

Radio Frequency Features:

- For indoor & outdoor use
- UHF 16 CH Receiver
- Non-diversity receiving
- Compander circuit improves signal-to-noise ratio and reduces background noise
- Anti-interference pilotone circuit
- Built-in receiving antenna

System Package Details:

- Focus System 16H: Focus 505, 16 channel UHF with CD, USB MP3 and IR remote with UHF handheld microphone transmitter & canvas carry case
- Focus System 16BH: Focus 505, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, headset microphone & canvas carry case
- Focus System 16BT: Focus 505, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, tieclip microphone & canvas carry case







See page 166 for a full range of accessories.

| Model: | Focus 505 |
|---------------------|---|
| Output Power | 30W (RMS) |
| Frequency Range | CH 38 ~ 606.125, 606.975, 607.650, 608.150, 608.475, 609.225, 609.750, 610.625, 610.975, 611.425, 611.750, 612.250, 612.575, 612.975, 613.450, 613.975 Licence required (visit www.jfmg.co.uk) |
| Oscillation Type | Quartz locked fixed frequency |
| Frequency Stability | ±0.005% |
| Receiving Method | Non-Diversity |
| Frequency Response | 50Hz ~ 15kHz |
| Speaker | 6½" Full Range Driver |
| Audio Inputs | MIC IN, AUX IN |
| Audio Outputs | AUX OUT |
| Power Supply | 230v AC / Internal Battery |
| Battery Recharge | 3 ~ 4 hours |
| Battery Life | Music: 5 ~ 6 hours / Voice: 10 ~ 12 hours |
| Dimensions | 213(W) x 313(H) x 215(D) mm |
| Weight | 5.5kg |

©CHIRYO





Focus500/IR: Compact Portable Presentation System (Infrared)

The new Focus 500IR is an infrared version of our highly popular Focus range. With all the same features as our UHF versions (built-in amplifier & loudspeaker, CD player, USB MP3 player, 230v AC/internal battery operation, etc), the Focus500IR features an infrared microphone receiver/transmitter which allows for any number of adjacent, multi-room systems without the limitations of number of channels.

As the infrared microphone signal is light-based, the simple separation of walls and doors will allow any number of adjacent systems - such as a number of classrooms - without signal interference.

Features:

- Truly wireless! Battery operation and IR signal eliminates all cables for true portability
- Infrared wireless microphone signal for multi-room systems
- Supplied as standard with IR handheld microphone
- CD player with integrated USB MP3 player and IR remote control
- Built-in 30W amplifier
- Built-in 61/2" full range speaker
- Dual power supply AC or DC operation

System Package Details:

• Focus System IRH: Focus 500 Infrared with CD, USB MP3 players infrared handheld microphone/transmitter & canvas carry case

(Please Note: The IR model is not suitable for outdoor use due to high light levels affecting the infrared signal.)

See page 166 for a full range of accessories.







| Model: | Focus500/IR |
|--------------------|---|
| Output Power | 30W (RMS) |
| Receiving Method | Infrared |
| Frequency Response | 50Hz ~ 15kHz |
| Speaker | 6½" Full Range Driver |
| Audio Inputs | MIC IN, AUX IN |
| Audio Outputs | AUX OUT |
| Power Supply | 230v AC / Internal Battery |
| Battery Recharge | 3 ~ 4 hours |
| Battery Life | Music: 5 ~ 6 hours / Voice: 10 ~ 12 hours |
| Dimensions | 213(W) x 313(H) x 215(D) mm |
| Weight | 5.5kg |



- Challenger System 16H: Challenger 1004 with Handheld Microphone (UHF)
- Challenger System 16BH: Challenger 1004 with Headset Microphone (UHF)
- Challenger System 16BT: Challenger 1004 with Tieclip Microphone (UHF)

Now further upgraded with a new 120W class D built-in amplifier, the new Challenger 1004 UHF is an all-in-one, multi-functional, multi-purpose, wireless portable sound system designed for both indoor and outdoor use, capable of high quality sound coverage

Compact and lightweight, it features CD player with pitch control and integrated USB MP3 player and will now allow for up to 4 UHF microphone receivers.

The Challenger 1004 also features easy to use controls and retractable handle to allow the unit to be easily transported.

- New 120W (RMS) class D internal amplifier and full-range loudspeaker
- Integral UHF wireless microphone receiver (plus option for an additional
- CD player with pitch control, complete with USB MP3 player & IR remote
- Wired microphone/auxiliary inputs, plus line level output
- Extension loudspeaker output (8Ω)
- Optional matching extension loudspeaker (C1000 Companion)
- Internal rechargeable battery or mains operation
- Retractable handle & integrated wheels
- Tripod mountable
- · Protective cover

System Package Details:

- Challenger System 16H: Challenger 1004, 16 channel UHF with CD, USB MP3 and IR remote with UHF handheld microphone transmitter and canvas cover
- Challenger System 16BH: Challenger 1004, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, lightweight headset microphone and canvas cover
- Challenger System 16BT: Challenger 1004, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, tie clip microphone and canvas cover

See page 166 for a full range of accessories.







Now allowing up to 4 UHF Receivers!

The new Challenger 1004 now allows for up to

Combined with the new RP-6016M Wireless Transmitter Module (seen overleaf), the new flexibility and the true freedom of

| Model: | Challenger 1004 |
|---------------------------------------|--|
| Output Power | 120W (RMS) |
| Frequency Range (UHF / PLL) | CH 38 ~ 606.125, 606.975, 607.650, 608.150, 608.475, 609.225, 609.750, 610.625, 610.975, 611.425, 611.750, 612.250, 612.575, 612.975, 613.450, 613.975 Licence required (visit www.jfmg.co.uk) |
| Speaker | 10" Full Range Driver |
| Battery Life | Music: 5 ~ 6 hours / Voice:10 hours |
| Battery Life (constant CD player use) | 5 ~ 6 hours |
| Battery Recharge Time (approx) | 6 hours |
| Built-in Charger | Yes |
| Music Options | CD Player with pitch control and integrated USB MP3 player |
| Power Requirement | 230v AC / Internal Battery |
| Dimensions | 350(W) x 500(H) x 300(D) mm |
| Weight | 21kg |

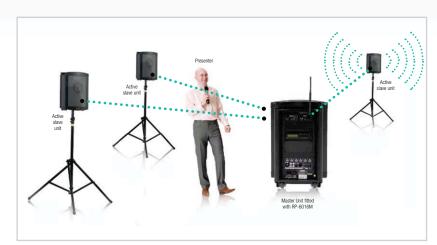
†CHIRYO



RP-6016M: Portable PA Wireless Transmitter Module (UHF)

Module for multiple unit wireless-linked systems. Where larger wire-free systems are required, the inclusion of the RP-6016M Module will transmit from a Master Unit to multiple active slave units, providing the same signal output as well as remote volume control to all units on the system.

The RP-6016M is compatible with all Challenger 1004 Systems.









Portable PA System Controls on Rear Panels

Coach 400:

***CHIRYO**

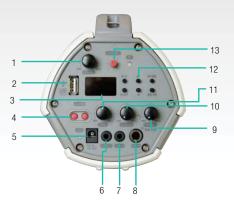
- 1 On/Off & Master Volume
- USB2.0 MP3 Player Port
- 3 MP3 Player Display
- 4 Alarm Tones
- DC Power Supply Input
- 6 Aux Output
- 7 Aux Input
- 8 Wired Mic Input
- 9 Mic Volume Control
- 10 Aux/USB MP3 Volume Control
- 11 Tone Control
- 12 USB MP3 Player Controls
- 13 UHF Receiver Channel Selector

Focus 505 & Focus 500IR:

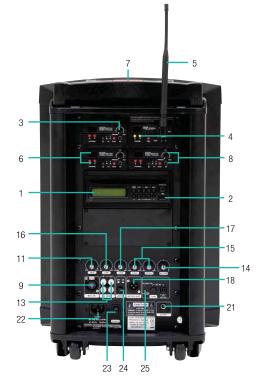
- 1 CD Player Module
- 2 USB MP3 Player Input
- Wired Microphone Input
- 4 Wired Microphone Level Control
- 5 Line Input/Output
- 6 Line Level Control
- 7 Tone Control
- 8 Wireless Microphone Level Controls
- 9 External/Extension Loudspeaker Output
- 10 Power On/Off
- 11 Voice Priority On/Off
- 12 DC Power Supply Input
- 13 Wireless Microphone Channel Selection

Challenger 1004:

- 1 CD Player Module
- 2 USB MP3 Player Input
- 3 RF Receiver Module
- Optional RP-6016M Wireless Transmitter Module (Module slot can alternatively be used for a 4th Receiver Module)
- RP-6016M Antenna
- 6 Additional Receiver Module Slot
- 7 Retractable Handle
- 8 Optional Receiver Module Slot
- 9 Wired Microphone Input 1
- 10 Wired Microphone Input 2
- 11 Wired Microphone 1 Level Control
- 12 Wired Microphone 2 Level Control
- 13 Line Inputs/Outputs
- 14 Master Volume Control
- 15 Tone Control
- 16 Line Level Control
- 17 CD/MP3 Level Control
- 18 Active Bus Input/Output
- 19 Master/Slave Selector
- 20 Slave Bus Level Control
- 21 External/Extension Loudspeaker Output
- 22 Mains Power Input
- 23 Power On/Off
- 24 Voice Priority On/Off
- 25 Charging Indicator







Portable P.A.

†CHIAYO



 The Chiayo range of Portables and Wireless Microphone Systems are available with a whole host of options, accessories and 'separates' to enhance or expand your system, including:

Coach, Focus & Challenger Transmitter Options:

Models:

| Model: | Description |
|-----------|--|
| SQ1016/38 | 16ch UHF Handheld Microphone Transmitter |
| SM1016/38 | 16ch UHF Beltpack Transmitter |



Focus Accessories:

Models:

| Model: | Description |
|----------|--|
| SDR-500M | Additional UHF 16ch Mic Receiver (Factory fitted only) |
| SP505 | Passive Extension Loudspeaker |
| PA505R | Active Extension Loudspeaker |
| ST-40 | Tripod Stand |
| SB21 | Canvas Carry Case |



Challenger 1004 Accessories:

Models:

| Model: | Description |
|-------------|--|
| SDR6116M | Additional UHF 16ch Receiver Module |
| RP-6016M | UHF 16ch Transmitter Module |
| 03180 | Tripod Stand |
| C1000 SLAVE | Slave Challenge Active Companion Loudspeaker |
| DC40 | Challenger Canvas Cover |



Microphone Options for use with all UHF & VHF Systems (must be used with Beltpack Transmitter):

Models:

| Model: | Description |
|--------|-------------------------------------|
| MC-76X | Slimline Headset Microphone |
| MC-73X | High Performance Headset Microphone |
| MC-70X | Aerobics Headset Microphone |
| MC-15X | Tieclip Microphone (Cardioid) |
| MC520X | Tieclip Microphone (Omni) |
| MC75X | Collar Microphone |



†CHIRYO

IWM402: Infrared Pendant Microphone Transmitter

Discreet neck worn IR transmitter with built-in microphone.

Provides hands-free transmission of voice and AUX signals as part of an installed voice reinforcement system in schools, universities, AV installations and conference venues.

The use of IR transmission allows the system to be used licence free, and also provides a secure signal that will not overspill to adjoining rooms or systems.

Features:

- Pendant transmitter with inbuilt condenser microphone
- 2 x Input jacks (2.5mm) for use with external headset microphone & Aux line level
- Bicolor LED indicates power on and battery low
- 2 channels switchable
- Input audio level control serves as remote volume control
- Operating time up to 7 hours with one dedicated 1.2v NiMH battery
- Dedicated drop-in charger (HC-40) available



IWH401: Infrared Handheld Microphone Transmitter

Features:

- Multiple emitter array of high efficiency infrared emission LEDs for optimum IR transmission
- Bicolor LED indicates power-on and battery low
- 2 channels switchable
- Unidirectional condenser cartridge for optimum audio, minimal handling noise and maximum feedback rejection
- Rugged steel mesh ball with anti-roll ring
- Operating time up to 7 hours with one dedicated 1.2v NiMH battery
- $\bullet\,$ Also can be suspended around the neck with a lanyard
- Dedicated drop-in charger (HC-40) available



HC40: Infrared Microphone Drop-in Charger

For use with IWM402 and IWH401 infrared microphones.



CLOCKAUDIO

GT Set One:

9 x Receiver Guided Tour System (UHF)

GT Set Two:

19 x Receiver Guided Tour System (UHF)

A licence-free system of lightweight, 16 channel personal portable units developed for commentary or narration on guided tours, for individuals or for groups in situations such as museums, zoos, factories, gardens or outside events. Also suitable for language tuition, talk-back and multi-language translation.

UHF for reduced interference. 16 PLL selectable channels for easy and reliable operation.

Built-in microphone or loudspeaker for handheld use and external microphone or earpiece for use when clipped to a belt or pocket. Open space range >100m.

Features:

- UHF PLL Licence-free
- 16 Selectable Channels
- Single or multi receiver capability
- Lightweight portable units with audio level adjustment
- · Receiver with built-in loudspeaker for handheld use, and external ear piece for use when clipped to a belt or pocket
- Transmitter with built-in condenser microphone for handheld use, and external microphone for use when clipped to a belt or pocket
- \bullet Powered by two AA Ni-MH rechargeable batteries giving 10 \sim 12 hours
- Intelligent chargers for 2, 10, 20 units
- · Accessories available lanyard and disposable ear pads

System Package Details:

• GT Set One: 1 x DC 320 Charging Flight Case 9 x GT 300R Receiver

1 x GT 300T Belt Pack Transmitter • GT Set Two: 1 x DC 320 Charging Flight Case 19 x GT 300R Receiver

1 x GT 300T Belt Pack Transmitter



GT 300R Receiver

GT300T Belt Pack Transmitter

Specifications:

| Model: | GT402T | GT502T |
|---------------------|--|---|
| System FM Carrier | UHF PLL Synthesized | UHF PLL Synthesized |
| Frequency Range | 740MHz ~ 865MHz (bands according to regulation) | 740MHz ~ 865MHz (bands according to regulation) |
| Channel Frequencies | 16 Pre-programmed switchable | 16 Pre-programmed switchable |
| Frequency Stability | ±0.005% | ±0.005% |
| Maximum Deviation | ±50kHz with level limiting | ±50kHz with level limiting |
| Dynamic Range | <80dB | <80dB |
| Powering | 2 x AA Ni-MH batteries averaging 10 hours use on full charge | External 12v DC 500MA, AC Adaptor 115v ~ 230v AC |

| Model: | GT300R | GT300T |
|----------------------|--|--|
| Includes | Ear piece | Omni-directional Condenser Microphone |
| System FM Carrier | UHF PLL Synthesized | UHF PLL Synthesized |
| Frequency Range | UHF 740 ~ 865MHz (according to local regulations)* | UHF 740 ~ 865MHz (according to local regulations)* |
| Channel Frequencies | 16 Pre-programmed switchable | 16 Pre-programmed switchable |
| Switchable Bandwidth | 12MHz | 12MHz |
| Frequency Stability | ±0.005% | ±0.005% |
| Maximum Deviation | ±50kHz with level limiter | ±50kHz with level limiter |
| Dynamic Range | <80dB | <80dB |
| Frequency Response | 150Hz ~ 10kHz | - |
| RF Output | - | 10mW |
| Powering | 2 x AA Ni-MH batteries averaging 10 hours use on full charge | 2 x AA Ni-MH batteries averaging 10 hours use on full charge |

*UK licence free 863 ~ 865 MHz (CH70)

| Model: | DC320 Charging Flight Case |
|------------------|--|
| Capacity | 20 (receiver or transmitter belt style only) |
| Indicator LED | Red charging, green fully charged |
| Charging Current | 120mA |
| Charging Time | NI-MH (1300mAH) 10 ~ 12 hours |
| Charging Control | PWM (timer power OFF detector) |

DC 302 2 Unit Desktop Charger (for hand held or belt style transmitter / receiver) DC 310 10 Unit Charger in fitted flight case





Amplifiers

Audio Signal Processing





| Voice Reinforcement? | |
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| Output Blates Andistreet Education Control | 474 |





Soundfield Classroom Voice Reinforcement Systems

Young people spend at least 45% of their school day engaged in active listening activities, with today's classroom serving as a primarily auditory verbal environment.

However, a study in the journal of the American Medical Association showed that 14.9% of children aged 6 ~ 19 suffer from some degree of hearing impairment, either permanently or temporarily due to illness, infection or allergies.

Studies estimate that 80% of school children will have some form of hearing loss during an academic year and, with the importance of auditory learning in the classroom, the use of technology to enhance listening performance ultimately allows children to learn more efficiently.

One of the simplest and most effective solutions is an i-ceilings 'Soundfield Voice Reinforcement System'. Functioning as a mini public address system, it features an infrared wireless microphone, receiver, amplifier and either one or two 'i-ceilings Sound Panel' loudspeakers (dependent upon the size of classroom).



Thorn Grove Primary School's SEN inclusion scheme ensures that both its mainstream and hard of hearing pupils benefit from clear, effective communication using i-ceilings Soundfield Systems in all its classrooms.

• What is a Soundfield System?

'Soundfield' or a 'Soundfield Voice Reinforcement System' is essentially the integration of a 'mini-PA system' in the classroom.



Without Soundfield, the clarity and volume of a teacher's voice will be less effective toward the back of the room.

Under quiet classroom conditions, most teachers have enough natural volume in their voice to communicate effectively with a standard sized class. However, a number of acoustic factors (lively/noisy classes, reverberant room conditions, ambient noise from equipment and outdoor activities, hearing difficulties, etc.) can have a significant effect on clear, effective teacher/pupil communication.



Using i-ceilings Soundfield Voice Reinforcement, the teacher's amplified voice will be heard at the same clear, effective level by all pupils in the room.

The inclusion of a Soundfield System in the classroom will raise the teacher's voice above this ambient noise level, to give even voice coverage throughout the room and without the need to shout or raise one's voice. This will provide significant benefits for teacher/pupil communication and understanding.

The benefits of Soundfield in the classroom...

All children benefit from the improved speech clarity of a Soundfield System. Academic improvements are consistently noted in:

- Task behaviour
- Reduced voice strain

Soundfield

- Attentiveness
- Better attendance

- Less repetition required
- Understanding of instructions
- Improved verbal recognition

The inclusion of Soundfield Voice Reinforcement in the classroom provides wide ranging benefits not only to pupils and hard of hearing students, but also to teachers and acoustic/architectural designers and specifiers.

In addition to the above outstanding benefits, pupils also benefit from:



Pupils:

- More effective deciphering of language in early learning years
- Better understanding of teacher's voice for 'second language' learning
- Assists temporary hearing deficiency, common in early learning years



Teachers:

- Improved clarity of voice and understanding
- · Reduced voice strain, illness and stress
- · Less repetition required
- Assists inclusive teaching for SEN students



SEN students:

- · Assists inclusive learning
- Easily integrates with induction loop systems
- Proven learning improvements for pupils with ADHD
- Many children with Down syndrome who have fluctuating conductive hearing loss perceive significantly more speech



Specifiers and Installers:

- Unparalleled even sound coverage
- Reduced number of loudspeakers required
- Reduced microphone feedback
- Reduced loudspeaker theft or damage
- Secure wireless signal for privacy rooms





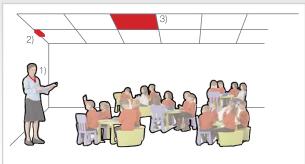


The i-ceilings Soundfield Solution

In its simplest form, a Soundfield System consists of the following components:

- Wireless microphone worn by the teacher
- Wireless microphone receiver
- Amplifier
- · Loudspeakers
- · Connection cables

The i-ceilings Soundfield Solution benefits from further unique component features to provide what we truly believe is the most advanced and effective system on the market.



- Teacher-worn Infrared Microphone
- Infrared Microphone Receiver
- i-ceilings unique Sound Panel Loudspeaker and Integrated Amplifier

The unique i-ceilings Soundfield System features:

• i-ceilings Sound Panel Loudspeakers

Our 'i-ceilings Sound Panel' is a unique loudspeaker which fits into a suspended ceiling in the same manner as a standard ceiling tile.

This revolutionary Sound Panel loudspeaker provides unparalleled levels of even sound coverage, ensuring all students hear an equal volume level of the teacher's voice. Furthermore, i-ceilings panels are virtually unidentifiable in the ceiling ensuring aesthetic consistency and greatly reducing any problems of loudspeaker theft or vandalism.



Infrared Wireless Microphone Technology

The i-ceilings Soundfield System also benefits from the use of an 'infrared' microphone system.

Many systems on the market use 'RF' (radio frequency) wireless microphone systems, which have many operational limitations such as the number of available frequency channels, license costs and signal overspill.

Our IR wireless system overcomes these limitations, being license-free and, by using light to transmit the microphone signal (just like your TV remote control), the signal cannot 'overspill' into adjoining classrooms; providing the ideal multi-room solution.





For more information on the benefits and application of Soundfield in the classroom, go online to:

www.soundfield.uk.com

_oudspeakers



i-ceilings 'in-ceiling' Soundfield Systems

Soundfield

Our flagship i-ceilings infrared Soundfield systems are arguably the most technically advanced and acoustically effective systems on the market.

System Benefits:

- Unobtrusive, yet highly effective voice reinforcement in the classroom
- Unidentifiable loudspeaker solution reduces damage or loss due to theft or vandalism
- $\bullet \ \ \text{Infrared wireless microphone technology allows unlimited adjacent room systems without}\\$ licensing issues
- Easily integrated with other classroom/teaching technologies such as induction loops, personal FM hearing assistance systems, interactive whiteboards, laptops, etc,...

Soundfield PACK A:

i-ceilings CS4000 / infrared Installed Soundfield System - (60m² coverage)

• 1 x CS4000ME/AMP Amplified i-ceilings Sound Panel CD/MP3/Laptop Input Wallplate Pendant Transmitter/Microphone 1 x APA/APL 1 x IWM-402 Infrared Sensors • 2 x IS-20A

• 1 x IWR-220 Infrared Receiver

• 1 x HC-40 Drop-in Charger for IWM-402

..plus connecting cables, equipment support tray, safety clip & wire, Transmitter batteries and manuals



Soundfield PACK B:

i-ceilings 2 x CS4000/ infrared Installed Soundfield System - (120m² coverage)

 1 x CS4000ME/AMP Amplified i-ceilings Sound Panel • 1 x CS4000ME i-ceilings Sound Panel (Slave) 1 x APA/APL CD/MP3/Laptop Input Wallplate Pendant Transmitter/Microphone • 1 x IWM-402

2 x IS-20A Infrared Sensors

• 1 x HC-40 Drop-in Charger for IWM-402

• 1 x IWR-220 Infrared Receiver

.plus connecting cables, equipment support tray, safety clips & wires, Transmitter batteries and manuals



Soundfield PACK C:

i-ceilings PRO AMP / infrared Installed Soundfield System - (60m² coverage)

• 1 x PRO ME/AMP Amplified i-ceilings PRO Sound Panel 1 x APA/APL1 x IWM-4022 x IS-20A CD/MP3/Laptop Input Wallplate Pendant Transmitter/Microphone Infrared Sensors • 1 x HC-40 Drop-in Charger for IWM-402

• 1 x IWR-220 Infrared Receiver

 \ldots plus connecting cables, equipment support tray, safety clip & wire, Transmitter batteries and manuals



NB: Infrared Transmitters and Microphones:

These Soundfield Packs feature the IWM-402 Pendant Microphone / Transmitter as standard. A handheld microphone option is also available (Part No. IWH-401).





Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075





'Surface-mount' Soundfield Systems

Though much of the success of our Soundfield systems has been based on our unique i-ceilings Sound Panel Loudspeakers, there are an increasing number of systems being installed into classrooms which do not feature a suspended ceiling.

Our Packs F & G have been developed for either wall-mounting (PACK F) or surface mounting to a solid or plasterboard ceiling (PACK G). Both systems feature our own UK designed and built IRX Wallmount Integrated Amplifier/Infrared Receiver, developed specifically for Soundfield classroom voice reinforcement.

Designed to be completely safe and child-friendly, the IRX features 20W amplifier, infrared wireless microphone technology, microphone & line inputs (for integration of laptop, MP3, DVD, etc) and level/tone control, whilst remaining extremely tamper-proof against potential 'wandering hands'.



Soundfield PACK F:

Wallmount Loudspeakers / infrared Installed Soundfield System - (60m² coverage)

Wallmount Amplifier/IR Receiver • 4 x FBT Project 315WT Wallmount Loudspeakers • 1 x IWM-402 Pendant Transmitter/Microphone 2 x IS-20A Infrared Sensors

Charger for IWM-402 ...plus connecting cables, safety clips & wires, Transmitter batteries and manuals



Soundfield PACK G:

i-ceilings Ceiling Surface-mount / infrared Installed Soundfield System - (60m² coverage)

1 x IRX1 x CS4500 Wallmount Amplifier/IR Receiver

Surface-mount i-ceilings Sound Panel Loudspeaker

• 1 x IWM-402 Pendant Transmitter/Microphone

• 2 x IS-20A Infrared Sensors Charger for IWM-402

...plus connecting cables, safety clip & wire, Transmitter batteries and manuals



NB: Infrared Transmitters and Microphones:

These Soundfield Packs feature the IWM-402 Pendant Microphone / Transmitter as standard. A handheld microphone option is also available (Part No. IWH-401).



Induction Loops



Outreach Plates: Audio Input Extension System

A range of wall, ceiling and desk mountable single gang audio input plates specifically designed to increase the audio input capability of any audio system. A total of six plates are available - one to suit virtually every conceivable variant of audio input connector - and each featuring a built-in mixer, pre-amp, input level control and balancing output.

See page 186 \sim 187 for full details of the Outreach Plate product range.



APJ: 3.5mm Jack Outreach Plate

Accepts balanced or unbalanced microphones with 3.5mm mono jack plugs. Includes an onboard mic to line level converter, high gain pre-amplifier and 8V phantom power.



• APL: Dual Phono Line Level Outreach Plate

Accepts two line-level signals (usually from a stereo source such as a TV, CD, tape or DVD). Includes an on-board dual phono to mono converter. An ALS SCART to dual phono lead is also available to facilitate the connection of TVs, VCRs, etc, to the APL.



APQ: ¼" Jack Outreach Plate

Accepts balanced or unbalanced microphones with 6.35mm (1/4") jack plugs. Includes an on-board mic to line level converter, high gain pre-amplifier and 8v phantom power.



APXM: XLR Microphone Level Outreach Plate

Accepts balanced or unbalanced microphones with standard 3 pin female XLR connectors. Includes an on-board mic to line level converter, high gain pre-amplifier and 8v phantom power.



APXL: XLR Line Level Outreach Plate

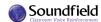
Accepts standard 3 pin female XLR feeds from audio equipment such as stage or church mixing desks, etc.



APM: Omni-Directional Plated Mic Outreach Plate

A self-contained omni-directional electret microphone complete with on-board mic to line level converter. Ideal for mounting in ceilings, walls or desks, the unit offers excellent coverage (typically up to 25m^2 when located at a ceiling height of $2.5\sim3$ metres).



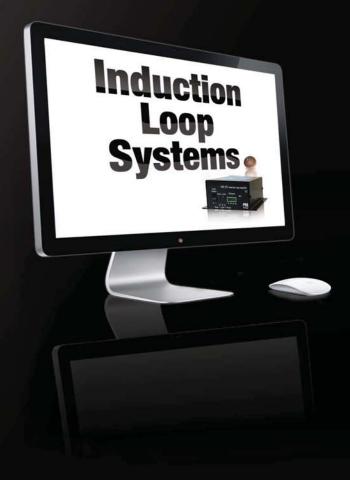






ATPINE

Audio Signal Processing



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Which Induction Loop System should I use?

The PDA range of induction loop equipment is one of the most comprehensive in the UK. It comprises a huge range of amplifiers, microphones, connector plates and test equipment covering virtually every conceivable AFILS application.

Before deciding which induction loop system to use, you first need to ascertain the size of the area to be covered in square metres (m^2) . Bear in mind it may not be necessary to cover the whole of the area, for example in a church only the pews may require coverage.

To calculate the size of the area in square metres, multiply the length by the width. For example, a room $6m \times 6m$ in size would equal $36m^2$. The coverage provided by an AFILS amplifier is also quoted in square metres. The chart below, and information in the rest of this section, will help you select the best PDA Range product(s) for the job.

Designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed, all of the amplifiers in the PDA range offer excellent intelligibility, true current mode amplification, phantom power (for electret microphones) and full compatibility with the 'outreach plate' audio input extension system (except the PL1, VL1 and DL50). Many are also available in kit format for ease of specification, purchase and installation.



Induction Loop Amplifier Selection Chart

| PDA PRODUCT | SIZE OF AREA REQUIRING COVERAGE | | | | | |
|--|--|--------------------------------|--------------------------------|-------------------------------|-----------------------------|--|
| PL1 portable loop kit ML1/K counter loop kit PDA102C counter loop kit VL1/B1 vehicle loop kit | Counters, desks, tables & other small areas up to 1.2m ² | | | | | |
| PDA102L/R/S small room kits DL50/K domestic loop kit | Rooms up to 49 (7 x 7 m) | m² | | | | |
| AK RANGE loop kits PDA200E amplifier | | Rooms up to 12((11 x 11 m) | Dm² | | | |
| PDA200/2 professional loop amplifier | | | Rooms up to 200 (14 x 14 m) |)m² | | |
| PDA500/2 professional loop amplifier | | | Ro | ooms up to 500 (22 x 22 m) | Om² | |
| PDA1000/2 professional loop amplifier | | | | | Rooms up to 9 (30 x 30 n | |





ML1/K: Counter Induction Loop System

The ML1/K counter induction loop amplifier is ideal for use in post offices, banks, building societies, ticket offices and reception

Mountable on a standard UK 25mm double gang back box, it can generate a loop listening field of approximately 1 to 1.5 metres and includes one microphone input, one balanced line level audio input and indicators for input peak, mains on and loop strength.

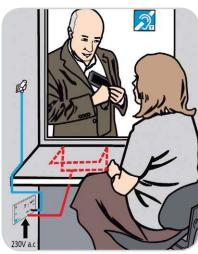
A number of easy to adjust user and engineer controls are also

Microphone and loop cable are supplied as part of the kit.

- Attractive, compact design blends with any decor
- Ideal for banks, post offices, small meeting rooms, reception desks, ticket booths and any other application requiring restricted or small
- Requires no specialist audio experience or connectors can be fitted by any competent electrician
- Space-saving double-gang wall-mounting amplifier fits standard UK 25mm back boxes (requires fixed mains wiring)
- Omni-directional AMT microphone (supplied) plugs directly into 3.5mm socket on the amplifier's front
- Line/outreach socket also provided (max. 3 outreach plates per system)
- User-adjustable mic. sensitivity and engineer adjustable loop drive and



Typical ML1/K counter/ticket booth application:



| Model: | ML1/K |
|-------------|---|
| Туре | Wall mounting (requires fixed mains wiring and a 25mm back box) |
| Coverage | 1.2m² approx. |
| Inputs 1kHz | 1 x 3.5 mm remote mic. socket; 1 x Line/Outreach socket |
| Indicators | Input level; power on; loop drive meter |
| Controls | On/off button; adjust auto-shut off timer |
| Kit Content | ML1 amplifier; AMT microphone; TX2 pre-formed counter loop; 'AFILS fitted' sticker |
| Dimensions | 143(W) x 83(H) x 32(D) mm |
| Weight | 0.3kg (amplifier only) |





PDA102 Series: Induction Loop Kits

SigNET's PDA102 audio frequency induction loop amplifier is ideal for any application requiring restricted or small area coverage.

Available in a variety of cost-effective kit formats, it includes a 3.5mm microphone input (with 9v phantom power) and a unique 'Outreach' input which allows the connection of multiple microphone and line level inputs via a series of single gang audio connector plates.

The amplifier's input(s) can be easily adjusted for optimum performance using the rotary level control provided on its front and an adjustable drive control is also included, allowing the amplifier's output stage to be set-up to suit the exact characteristics of any room.

The PDA102's state-of-the-art audio processor features an automatic gain control which compensates for poor microphone techniques and helps suppress loud noises, hisses and clicks. The amplifier's true current mode amplification circuitry guarantees excellent and consistent sound quality for the hearing impaired.

The amplifier is designed to be free-standing or wall-mounted using the keyholes provided and installation is further aided by the provision of two set-up indicators (Peak and Limit) and a 'Power On' LED.

Features:

- Ideal for ticket counters, desktops, TV lounges, interview rooms, etc
- Provides max. square room coverage of 49m² (7 x 7 m). Kitted 'counter loop' version provides approximately 1.2m² coverage
- Attractive, compact design
- Includes one 3.5mm microphone input with 9v phantom power
- Compatible with SigNET's unique 'Outreach plate' audio input extension system (allows the connection of up to 10 additional mic. or line level inputs via a series of separately available audio connector plates)
- Input Limit, Output Peak and Power On indicators
- · Adjustable Limit and Drive controls
- Compact free-standing design with keyholes provided for optional wall-mounting
- Available in a variety of cost-effective kit formats that are suitable for use in ticket counters, small meeting rooms and TV lounges
- Designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed
- Can be used to help building managers and service providers comply with the requirements of BS8300, the Disability Discrimination Act and the Care Standards Act



PDA102C: Counter Loop Kit

Everything required for a stand-alone counter loop system for a ticket office, reception desk, meeting room or any other area where a degree of privacy is required. Includes an AMT tie/desk microphone, a TX121 counter loop and two 'loop in use' stickers.





PDA102L: Small Room Kit (Tie/Desk Microphone version)

Ideal for council chambers, seminar rooms and doctors' surgeries up to $7m \times 7m$ in size. Includes an AMT tie/desk microphone, 30m of loop cable and two 'Loop in Use' stickers.



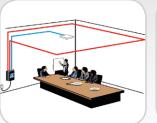


Loudspeakers



PDA102R: Small Room Loop Kit (Plated Microphone version)

The PDA102R is similar to the PDA102L but instead of an AMT tie/desk mic. it includes an APM omni-directional plated microphone which is ideal for mounting in suspended ceilings. Also includes 30m of loop cable and two 'Loop in Use' stickers.





PDA102S: TV / Music Lounge Loop Kit

The PDA102S is designed for use in areas such as nursing home TV lounges where it allows hearing aid users to enjoy TV/radio broadcasts. It includes an APS scart lead, an APL dual phono Outreach connection plate, 30m of loop cable and two 'Loop in Use' stickers.





Outreach Compatible:

The PDA102 Series is fully compatible with SigNET's unique 'Outreach Plate' audio input extension system. This system allows the connection of multiple microphone or line level inputs via a range of specially designed single gang connector plates covering the most common variants of audio connector including XLR line, XLR mic., 3.5mm jack, dual phono and 1/4" jack.

A maximum of 10 plates (any mix) can be daisychained to the amplifier's Outreach socket using standard two pair audio cable such as Belden 8723.



| Model: | PDA-102C/L/R/S | |
|--|--|--|
| Rated supply voltage and frequency | 230v AC @ 50/60Hz | |
| Rated power consumption | 20W | |
| Maximum r.m.s. output current | 2.1A | |
| Maximum peak output current | 2.8A | |
| Maximum r.m.s. load voltage | 5.5V | |
| Total harmonic distortion | <0.1% | |
| Maximum area of a square loop | 49m² (7m x 7m) | |
| Recommended loop conductor size | 0.5mm^2 @ <35metres loop length or 1.0mm^2 @ >35metres to <50metres loop length (inc. tails) | |
| Recommended number of turns | 1 | |
| Frequency response –3dB | 120Hz ~ 5kHz as per IEC 60118-4 | |
| Input signal level | Mic: -50dBV Unbalanced, Outreach: -10dBV balanced (referenced to full output 1kHz sine wave into 1Ω load with controls at max.) | |
| Input impedance | Mic: $1k\Omega$; Outreach: $20k\Omega$ | |
| Microphone phantom power | 9v DC | |
| Signal to noise ratio | -62dB | |
| AGC Ratio | 2:1 | |
| Amplifier mode | True Current Mode | |
| Control & indicator labels / functions | Green Power LED, Red Limit LED, Red Peak LED, Limit control, Drive control | |
| Special features | Outreach plate connector allowing the connection of up 10 outreach plates | |
| Connections | Mains - IEC Socket 230v 20W; Loop Output - 2 Way Push Terminal; Outreach – 4 Way Plugable screw terminal; Microphone – 3.5mm mono jack socket | |
| Dimensions | 136(W) x 56(H) x 175(D) mm | |
| Weight | 1.25kg | |





DL50/K: Domestic Induction Loop System (50m² coverage)

SigNET's DL50/K domestic loop amplifier kit includes everything you need to create a high quality stand-alone induction loop system for a bedroom, living room, TV lounge or study.

Carefully designed to sit discreetly alongside all types of audio-visual equipment, the amplifier features one set of phono inputs (for direct connection to television sets, etc), two microphone inputs and an alert input (for connection to fire alarms, doorbells, etc).

Screwdriver-adjustable drive, level, mix and tone controls are provided, allowing the system to be tailored to suit the exact requirements of any room, with installation further aided by the provision of a headphone socket, output current meter, input peak LED and an easy-to-follow installation guide.

Features:

- Kit includes:-1 x DL50 induction loop amplifier

 - 1 x Plug-top power supply
 1 x Ryan reel of induction loop cable
 1 x SCART-to-double-phono audio lead
 - x Microphone c/w mounting attachments
 - 1 x Microphone c/w mounting attachments
- Free-standing ideal for bedrooms, living rooms, TV lounges, studies and other domestic applications
- · Simple to adjust, tamper-resistant drive, level, tone and mic. priority
- Input peak, output current, signal present and power on LEDs
- Alert tone input for doorbells, fire alarms, security systems, etc.
- Attractively-designed amplifier provides max. square room coverage Attactively eaglied a injuries provides max, square form coverage of up to $100m^2$ ($7m \times 7m$) or max, rectangular room coverage of up to $100m^2$ (5×20 m) (Longer lengths of loop cable may be required for rectangular rooms)
- Headphone socket aids system set-up
- Connections provided for two 3.5mm electret microphones (one mic. is provided in the DL50/K kit) and one SCART-todouble-phono audio lead (other leads are available for purchase if required)
- · Automatic compressor limiter
- $\bullet\,$ Full 2Ω drive current capability for increased coverage at higher frequencies
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993





| | • | | |
|-------------|---|--|--|
| Model: | DL50/K | | |
| Туре | Free standing, Plugtop mains lead supplied | | |
| Coverage | 50m² approx. | | |
| Inputs:1kHz | 2 x 3.5 mm microphone sockets, 1 x dual phono (line) socket, 1 x alert | | |
| Indicators | Input level; loop current meter; power on | | |
| Controls | Input level, loop drive, tone, microphone priority | | |
| Kit Content | DL50 amplifier, plug-top power supply, 33m of loop cable, SCART-to-double-phono lead, AMT microphone, 'AFILS fitted' sticker | | |
| Dimensions | 185(W) x 40(H) x 85(D) mm | | |
| Weight | 0.55kg | | |





PDA200E: Wall-mounting Induction Loop

Amplifier (120m² coverage)

The PDA200E has revolutionised the induction loop marketplace by bringing the ability to understand, install and appreciate the technology involved to a whole new client base.

Straightforward internal screw connectors and preset controls mean no specialist audio experience or audio connectors are required. By following the simple set-up procedure, no further adjustments are necessary, allowing a top quality assistive listening system for the hard of hearing to be set-up in its entirety by new and experienced installers alike.

No less than four easy-to-access inputs are provided:

- Balanced/unbalanced mic (with phantom power for use with electret mics)
- Balanced/unbalanced line (for the connection of TV and other audio feeds)
- Alert tone switch (a tone generator for use with doorbells, fire alarms, etc.)
- 100v line (for the connection of PA system audio feeds)

The amplifier's state-of-the-art current drive audio processing circuitry includes an automatic compressor/limiter which maintains the loop signal within a small dynamic range to improve intelligibility. Manual adjustments can also be made using the amplifier's internal tamperresistant drive, level and tone controls, allowing the system to be tailored to suit the exact requirements of any room.

Features:

- Ideal for meeting rooms, lecture theatres, churches, schools, TV lounges, shops and other small to medium sized applications
- Provides max. square room coverage of 120m² (11 x 11 m) or max. rectangular room coverage of 250m² (10 x 25 m)
- · Straightforward internal screw connectors
- Wall mountable for permanent installation ideal for schools and colleges where rooms are often left unsupervised
- Internal tamper-resistant drive, level and tone controls
- One balanced/unbalanced microphone input
- One balanced/unbalanced line level input
- Alert tone switch input for doorbells, fire alarms, security systems, etc
- 100v line input for PA system connection
- Fully automatic compressor-limiter
- \bullet Full 2Ω drive capability for increased coverage at higher frequencies
- Compatible with SigNET's unique 'outreach plate' input extension system
- Available in a variety of kit formats to suit a host of typical loop installations
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993



Inputs:

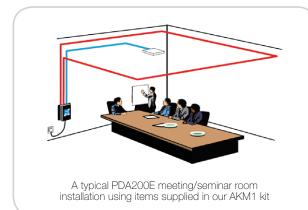
| Model: | PDA200E |
|---|--|
| Three 5mm screw connect signals are mixed | for inputs are available - mic., line & 100v. If more than one is used, the |
| MICROPHONE | |
| Input impedance | 600Ω balanced/unbalanced |
| Sensitivity | 2 ~ 5mv (-46dB to -50dB) |
| Phantom | 12v |
| LINE | |
| Input impedance | $>$ 10k Ω balanced/unbalanced |
| Sensitivity | 0dBv (300mv rms to 1.5v rms) |
| 100V LINE | |
| Input impedance | 200kΩ |
| Sensitivity | +40dBv |
| ALERT | Closing a volt-free switch across this input generates a 2kHz tone through the loop. |

Outputs:

| Model: | PDA200E | | |
|----------------------------------|--|--|--|
| Туре | Current mode | | |
| Loop connector | Screw connector | | |
| Cable | 1.0-2.5m ² | | |
| Loop coverage (square room) | 120m² max. (e.g. 11 x 11 m) | | |
| Loop coverage (rectangular room) | Up to 250m^2 when shortest side of loop is no greater than 10m (e.g. 10 x 25 m) | | |
| Loop drive current | 4A peak; 1.8A average | | |
| Loop impedance | 0.2 ~ 2Ω @ 1kHz | | |

| Model: | PDA200E | | |
|---|---|--|--|
| Mains voltage | 230v AC | | |
| Power consumption | <80vA | | |
| Fuses | Internal mains input fuse 1A 20 mm (HRC) | | |
| Bandwidth | 40Hz ~ 8kHz | | |
| Input dynamic range | 36dB | | |
| Distortion | <0.5% THD | | |
| The PDA200E includes an amplitude compression stage that limits overload and has a dynamically variable ratio from 1:1 to10:1 | | | |
| LED indicators | Input peak (limit); output drive (1,2,3 peak current); power on (power) | | |

| LED indicators | Input peak (limit); output drive (1,2,3 peak current); power on (power |
|-------------------|---|
| User controls | One level control, adjustable between -35dB to +0dB for both line and microphone One output drive control, giving a loop current adjustable between 40mA & 2.1A One mid-range cut & boost tone control (frequency = 1kHz; cut = -17dB; boost = +17dB) |
| | |
| Dimensions | 2/3(W) x 200(H) x //(D) mm |
| Weight | 2.9kg |
| Dimensions Weight | (frequency = 1kHz; cut= -17dB: boost =+17dB) 273(W) x 200(H) x 77(D) mm |







 PDA200/2: Professional Induction Loop Amplifier (200m² coverage)

PDA500/2: Professional Induction Loop Amplifier (500m² coverage)

 PDA1000/2: Professional Induction Loop Amplifier (900m² coverage)

This professional range of current mode audio-frequency induction loop amplifiers offer outstanding sound quality at a competitive

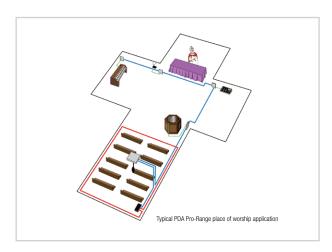
Each amplifier includes one balanced microphone input and one switchable balanced mic. or line level input, both of which will accept standard 3 pin XLR connectors. Optional 11v phantom power is also available on both inputs to allow the use of electret or condenser microphones.

By popular demand, each amplifier also features a four-way 'Outreach' input offering full compatibility with SigNET's unique Outreach Plate audio input extension system. This system allows the connection of up to 10 additional microphone or line level inputs via a range of specially designed single gang connector plates.

Other features include three level controls (one for each input), a loop drive control, an output current meter and a 'compression' activity display giving visible indication of the amplifier's compressor.

Features:

- · Ideal for theatres, cinemas, churches, conference halls and other applications where top quality sound is a must
- Attractive free-standing design (optional wall and 19" rack-mounting kits
- Improved drive current capability provides up to 50% extra coverage
- Two XLR 3 pin input sockets one balanced mic. and one switchable balanced mic./line
- Optional 11v phantom power available for electret or condenser
- 'Outreach' input allows the connection of up to 10 additional mic. or line level inputs via a series of separately available single gang connector plates
- · Adjustable level controls provided for all inputs can be used individually or together as a three-input mixer
- · Adjustable drive control allows the loop current to be adjusted to suit a room's individual characteristics
- Metal compensation control helps offset the frequency response problems associated with excessive metal in a building
- · True output current meter
- Visible indication of the amplifier's compressor action via two LEDs
- 3.5mm headphone socket allows true monitoring of the output signal
- Advanced audio signal processing with automatic gain control
- On-board cooling fan on PDA500/2 and PDA1000/2 promotes stable operating temperature and increased reliability
- All models designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed





| Pro-Range Amplifier | Max Sq. Room Coverage | Max 2:1 aspect ratio coverage |
|---------------------|-----------------------|-------------------------------|
| PDA200/2 | 200m² | 240m² |
| PDA500/2 | 500m ² | 600m ² |
| PDA1000/2 | 900m² | 1100m ² |

| Model: | PDA Pro Range | |
|--|---|--|
| Туре | Free-standing (optional wall or 2U 19" rack mount kits available); plugtop IEC mains lead provided | |
| Coverage | 200m² (PDA200/2); 500m² (PDA500/2); 900m² (PDA1000/2) | |
| Inputs:1kHz | 2 x XLR (one mic; one mic/line) and one outreach connector | |
| Indicators | Loop drive meter; compression (high/low); power on | |
| Controls | 3 x input level controls, loop drive, metal compensation, on/off switch | |
| Output type | Current mode | |
| Loop connector | Four way binding posts | |
| Recommended loop impedance | $0.5 \sim 1\Omega$ @ 1kHz. Will drive higher impedance loops with reduced area of coverage | |
| Loop drive current @ 1Ω | PDA200/2: 6A, PDA500/2: 9A, PDA1000/2: 12A | |
| Peak loop drive current (Measured over 5mS integration time) | PDA200/2: 8 Amps @ 1Ω , 13 Amps @ 0.5Ω , PDA500/2: 12 Amps @ 1Ω , 19 Amps @ 0.5Ω , PDA1000/2: 14 Amps @ 1Ω , 24 Amps @ 0.5Ω | |
| Headphones | 3.5mm jack socket allows monitoring of the loop signal via >32 Ω headphones | |
| Maximum area coverage | For a 400mA/M field strength ± 1dB PDA200/2 @ 6A max short term current: Square room = 200m²; Rectangular room (2:1 aspect ratio) = 240m² PDA500/2 @ 9A max short term current: Square room = 500m²; Rectangular room (2:1 aspect ratio) = 600m² PDA1000/2 @ 12A max short term current: Square room = 900m² Rectangular room (2:1 aspect ratio) = 1100m² | |
| Performance | Frequency response: 20Hz ~ 14 kHz + -3dB; Distortion: Less than 0.5%, S ~ N ratio: Better than -65dB any input | |
| Metal Compensation | True 3dB/octave design counteracts frequency dependent absorption by metal in the proximity of the installation over a bandwidth of approximately 100Hz ~ 10kHz | |
| Dimensions | 380(W) x 80(H) x 220(D) mm | |
| Weight | 3.74kg (PDA200/2) / 3.46kg (PDA500/2) / 4.54kg (PDA1000/2) | |





SigNET's new FPROK Fosmeter Pro induction loop test kit is designed to simplify the setup of an induction loop system and ensure its compliance with the latest version of BS EN 60118-4 (Magnetic field strength in audio-frequency induction loops for hearing aid

The kit includes the FPRO Fosmeter Pro induction loop tester (pictured right), an MP3 player c/w pre-loaded test tones and a set of headphones

The Fosmeter Pro is a 400mA magnetic field strength meter and loop listener, complete with circuitry for measuring background noise, frequency response and metal compensation. It includes:

- · A digital LCD display with a user-friendly interface to simplify testing
- Two 'soft' buttons which dynamically change their functions to suit the menu options being accessed
- Battery low indication and an auto-power off function that kicks in after 10 minutes of Fosmeter inactivity
- A 3.5mm headphone jack socket allowing users to listen to the loop signal using a set of HEAD1 headphones (supplied in FPROK kit)

The unit is powered from a 9v PP3 battery (provided) and is supplied in a protective canvas carrying case.

One FPROK Kit (plus ancillaries such as MP3 player/amplifier connection leads) is all it takes to ensure your loop installations comply with current British Standards.

Test Menus:

The Fosmeter Pro's test results are typically shown on its LCD as shown right. A summary of these tests appears below:

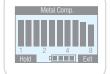
- Field Strength Test: Detects a pulsed 1kHz signal in accordance with BS EN 60118-4, calibrated at 400mA/m = 0dB L.
- . Background Noise Test: Advises if the signal is acceptable, tolerable or too high in accordance with BS EN 60118-4.
- Frequency Response Test: Detects 100Hz, 1kHz and 5kHz in accordance with BS EN 60118-4. All three frequency readings are displayed on the same screen allowing you tell at a glance if the setup is within the +/- 3dB L required by the standard.
- Metal Compensation Test: This test goes beyond the scope of BS EN 60118-4 but adheres to the 3rd octave frequency spectrum advised in the standard, measuring 1kHz through 8kHz. For use with amplifiers with metal compensation controls/functions such as the PDA200/2, 500/2 & 1000/2.
- Subjective Listening Test: This test is designed to ensure hearing aid users receive an undistorted and clear signal in the covered area and is performed using a set of headphones (supplied) plugged into the unit's headphone socket.











RXti2: Induction Loop Receiver

The RXti2 Induction Loop Receiver picks up audio signals from the loop through a pair of headphones (not supplied) and allows the signal quality to be assessed for testing purposes.

Designed to allow installers and the non hard of hearing to test and assess the quality and availability of a loop system. The RXTi2 may also be used in non hard of hearing applications such as multi-lingual translations, museum talk-through systems and stage talk-back

Features:

- · Soft start function
- 50Hz filter (to cut out mains hum pick up)
- · Compact size
- 3.5mm headphone socket (for headset / earbud)
- Powered by 2 x AAA batteries



CAUTION: The audio output from the RXTi2 can exceed 100mW into 8Ω . This may cause hearing damage with long term exposure. Care should be taken not to use excessive volume when testing loop systems.





Outreach Plates: Audio Input Extension System

A range of wall, ceiling and desk mountable single gang audio input plates specifically designed to increase the audio input capability of any audio system. A total of six plates are available - one to suit virtually every conceivable variant of audio input connector - and each featuring a built-in mixer, pre-amp, input level control and balancing output.

Up to ten plates of any mix can be daisy-chained to one balanced line level input with cable lengths in excess of 100m easily achievable using standard two-pair audio cable (i.e. Belden 8723) with no recognisable degradation of audio signal quality.

All plates are surface mountable on 25mm single-gang back boxes and can be installed at the most convenient point on an installation, thus overcoming the need for long and potentially hazardous microphone/audio leads.

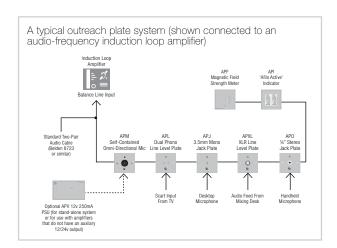
The system is ideal for conference centres, schools, leisure complexes, etc., where the need to have separate and spatially distributed audio inputs is a must.

An external DC power supply (Part No. APV) is available for standalone systems or for use with audio equipment that does not have a 12/24v auxiliary output.

Features:

- Can be connected to the balanced line level input of any audio system
- Fully cascadable up to ten outreach plates can be daisy-chained to one balanced line level input
- Plates can be located at any convenient point on an installation
- Standard two-pair audio cable is ideal for most applications
- Network lengths of 100m easily achievable with no degradation of sound quality
- Built-in pre-amp, mixer and level controls included on all variants
- Overcomes the need for excessively long microphone and audio leads
- 12 ~ 32v DC operation
- · +6dB overload capability
- Surface mountable on 25mm UK single gang back boxes
- Effectively acts as a multi-point distributed mixer with individual level
- Optional wall-mounting 'AFILS ACTIVE' and magnetic field strength indicators available for use with audio-frequency induction loop systems





Power Requirements:

| Supply volts | 12 ~ 32v |
|----------------|-----------|
| Supply current | 12 ~ 15mA |

Common Specifications:

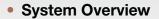
| Common outreach plate charact and balanced line out | teristics between balanced line in |
|---|------------------------------------|
| Input - balanced/unbalanced line | 1v (0dBv) |
| Output - balanced line | 1v (OdBv) + 6dB (overload) |
| Frequency response | 40Hz ~ 20kHz |
| Input impedence | >10ΚΩ |
| Output impedence | <100Ω |
| Insertion loss/gain | $< \pm 0.05 dB$ |
| Insertion signal to noise ratio | >95dB |
| Insertion THD + noise | <0.01% |

Individual Outreach Plate Specifications:

| Model: | APJ Plate | APL Plate | APQ Plate |
|-----------------------|---------------------|----------------|---------------------|
| Input signal level | -50dBv (5mv mic) | -12dBv ~ +6dBv | -50dBv (5mv mic) |
| Gain | 55dB | +6dB | 55dB |
| Level control | 0 ~ -46dB | -30dBv to +6dB | 0 ~ -46dB |
| Input impedance | 500Ω | >10kΩ | 500Ω balance |
| Phantom volts | 0, 8v (link select) | n/a | 0, 8v (link select) |
| Signal to noise ratio | >75dB | >92dB | >75dB |
| THD + noise | <0.02% | <0.1% | <0.02% |

| Model: | APXM Plate | APXL Plate | APM Plate |
|-----------------------|----------------------|-----------------|-----------|
| Input signal level | -50dBv (5mv mic) | -12dBv to +6dBv | n/a |
| Gain | 55dB | +6dB | 55dB |
| Level control | 0 ~ -46dB | -30dBv ~ +6dB | 0 ~ -46dB |
| Input impedance | 500Ω balanced | >10kΩ | n/a |
| Phantom volts | 0, 8v (link select) | n/a | n/a |
| Signal to noise ratio | >75dB | >92dB | >75dB |
| THD + noise | <0.02% | <0.1% | <0.02% |





The system normally has two inputs per outreach plate - a balanced line level input from the previous outreach plate and its own adjustable input. These inputs are mixed in a way that ensures the input from the previous stage is virtually unaffected whilst generating a composite signal for the output in the form of a balanced line level signal.

As very low levels of insertion loss and signal-to noise ratios can be guaranteed and the inherent interference advantage of having balanced and floating line level inputs and outputs, very long lengths of interconnecting cable may be used without significantly degrading the signal.

This, coupled with the system's cascadability, allows the designer to effectively 'tailor make' a distributed multiple input mixer that is compatible with virtually any audio system.

The Outreach Plate range:

Up to ten of the following outreach plates (any mix) can be daisy-chained to an audio system's balanced

APJ: 3.5mm Jack Outreach Plate

Accepts balanced or unbalanced microphones with 3.5mm mono jack plugs. Includes an onboard mic-to-line level converter, high gain pre-amplifier and 8v phantom power.



Accepts two line-level signals (usually from a stereo source such as a TV, CD, MP3 or DVD). Includes an on-board dual phono to mono converter. An ALS SCART to dual phono lead is also available to facilitate the connection of TVs, VCRs, etc, to the APL.

APQ: 1/4" Jack Outreach Plate

Accepts balanced or unbalanced microphones with 1/4" jack plugs. Includes an on-board mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

APXM: XLR Microphone Level Outreach Plate

Accepts balanced or unbalanced microphones with standard 3 pin female XLR connectors. Includes an on-board mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

APXL: XLR Line Level Outreach Plate

Accepts standard 3 pin female XLR feeds from audio equipment such as stage or church mixing desks, etc.

APM: Omni-Directional Plated Mic Outreach Plate

A self-contained omni-directional electret microphone complete with on-board mic-to-line level converter. Ideal for mounting in ceilings, walls or desks, the unit offers excellent coverage (typically up to 25m² when located at a ceiling height of 2.5 ~ 3 m).

Ancillary Devices:

Should the Outreach network be connected to an induction loop system, any of the following ancillary devices can be added:

API: 'AFILS Active' Outreach Plate

Includes two ultra-bright LEDs in a translucent diffuser overprinted with the induction loop 'ear' symbol. The LEDs illuminate when the outreach network is powered to indicate that an AFILS system is installed. Current consumption is 30mA max.

APF: Field Strength Meter Outreach Plate

Indicates the magnetic field strength generated by an induction loop system via three LEDs, labelled +6dB, OdB and -6dB. The LEDs illuminate as appropriate whenever a signal is present and can be easily set up to indicate the magnetic field strength in the room centre.





















PL1/K1: Portable Induction Loop System (1.2m² coverage)

With more than 10% of the population suffering from some kind of hearing impairment, the PL1 is the ideal portable device to ensure that your environment meets the standards laid out by the DDA.

The attractively designed PL1 can be used in schools, shops, nursing homes, leisure centres, hotels, banks, GP surgeries, reception desks as well as many other private, public or civil applications where there is no permanent loop facility installed.

Made from durable ABS plastic, the unit is lightweight and tough enough to be transported and an integral battery allows the unit to be used in most environments.

The unit will cover an area of $1\sim 2\,\mathrm{m}^2$ and uses an integral microphone to pick up speech and conversations, (however, an external microphone may be added if required). Built-in 'cut-off timer' automatically shuts down the system after 10, 30, 60 minutes if the unit is not being used, helping to maintain battery life for prolonged use.

Features:

- Ideal for restricted person-to-person contact in areas such as banks, post offices, small meeting rooms, reception desks, open plan offices and
- Portable, lightweight design means the system can be moved easily from location to location
- Simple one button operation
- Integral high performance microphone
- Five years' expected battery life under normal operating/charging
- Auto shut-off facility (user selectable for 10, 30 or 60 minutes) helps preserve battery lifé
- Unit can be used as normal whilst charging from the mains



Typical PL1/K1 meeting room application



Typical PL1/K1 counter / ticket booth application



| Model: | PL1/K1 |
|------------|--|
| Туре | Portable |
| Coverage | 1.2m² approximately |
| Inputs | 2 x mic (one built-in mic. and one 3.5mm remote mic socket for AMT or AMD mics) |
| Indicators | Power on; input level; charging required; charging in progress, audio warning of imminent shutdown |
| Controls | On/off button; adjust auto-shut off timer |
| Dimensions | 250(W) x 100(H) x 300(D) mm |
| Weight | 1.7kg (including battery) |

Loudspeakers

 IL-PL20: Portable Induction Loop System (1.2m² coverage)

The Contacta Portable Induction Loop System has been designed specifically to aid communication with people with hearing difficulties who wear a hearing aid featuring a 'T' facility. The system consists of two components; the main unit, stylishly constructed from robust ABS plastic, and a plug-in power adaptor.

It incorporates a rechargeable battery system to maintain performance at its peak and will give a minimum of 8 hours use. The battery life is monitored at all times using standby mode, incorporating a two colour display to show battery status. The display also shows that the unit is operational as it flashes in conjunction with any sounds present.

The unit is fully operational at all times and may still be used when recharging becomes necessary. An in-built socket allows for expansion using optional boundary microphones, etc. The IL-PL20 Portable Induction Loop is easy to carry and can be easily set up for use in a matter of seconds.

Features:

- Simple, stylish, robust design
- · Lightweight and easy to carry
- · In-built microphone and rechargeable battery
- Provides a minimum of 8 hours usage
- Battery status & operation LED display
- Microphone input for optional expansion boundary microphone
- Set-up for use in a matter of seconds



Soft Carry Case: IL-PL25 Rigid Carry Case: IL-PL24



Storage Shelf: IL-PL26



Specifications:

| Model: | IL-PL20 |
|---|------------------------------------|
| Internal Microphone | Electret |
| Connections: Auxiliary Microphone Power | 2.5mm Jack plug 2.1mm Jack plug |
| Controls: Power On | Rocker switch |
| Output Voltage | 12v DC |
| Battery Life | 8 hours (min) |
| Dimensions | 275(W) x 250(H) x 110(D) mm |
| Weight | 1.6kg (including battery) |

IL-PL21: External Boundary Microphone

Only for use with the IL-PL20 InfoLoop and IL-CL10 Clipboard Loop, this microphone features a notch filter for use when magnetic security fields are present.



IL-CL10: Clipboard Portable Induction Loop

Designed for highly discreet communication with those with hearing difficulties who wear a hearing aid featuring the 'T' facility.

Ideal for small group and one-to-one applications such as schools, colleges and training rooms, as well as interviews, doctors surgeries, customer service counters in retail, banking and public buildings.

Made from high impact ABS the unit is lightweight and includes internal battery (lasts up to 8 hours on a single charge), microphone and LED indicators which show if the unit is active or needs recharging.

Features:

contacta

(1.2m² coverage)

- Simple, very discreet, robust design
- Lightweight and easy to carry
- In-built microphone and rechargeable battery
- Battery status & operation LED
- Microphone input for optional expansion boundary microphone (Part No. IL-PL21)
- Set-up for use in a matter of seconds



| Model: | IL-CL10 |
|---|------------------------------------|
| Integral Microphone | Electret |
| Connections: Auxiliary Microphone Power | 2.5mm Jack plug 2.1mm Jack plug |
| Controls: Power On | Rocker switch |
| Output Voltage | 12v DC |
| Battery Life | 28 hours (max) |
| Dimensions | 230(W) x 320(H) x 40(D) mm |
| Weight | 1.02kg (including battery) |

STS-K001L

Well than !

Loudspeakers

- STS-K001L: SecuriCom Thru' Glass Speech Transfer System - Bridge Bar with Loop
- STS-K002L: SecuriCom Thru' Glass Speech Transfer System - Surface Mount with Loop
- STS-K003L: SecuriCom Thru' Glass Speech Transfer System - Flush Mount with Loop

Contacta SecuriCom[™] systems enable clear voice communication between customers and service staff through glass security screens. Transactions can therefore be conducted efficiently and confidentially – without difficulty or delay – even in noisy environments. So business throughput and profitability can be maximised - and customer goodwill

Every SecuriCom $^{\rm TM}$ system uses the most advanced electronic circuitry. Its purpose-designed speaker and microphone modules ensure superb voice reproduction and reliable performance - year after year. Fitting is very straightforward, whether as part of a new build project or into existing counter facilities. Each system is stand-alone and individually plugged into the mains supply.

In use, it is hands-free for both staff and customer and is designed to remain 'ON' continuously during service hours. Communication is fully 'duplex', so there is no clipping of speech.

To provide communication assistance for users of hearing aids, any SecuriCom $^{\text{TM}}$ installation can be integrated with an Induction Loop system. This will aid compliance with the Disability Discrimination Act 1995.

Typical Applications:

- Banks and building societies Police stations
- · Benefit agencies
- Booking offices
- Bureaux de change
- Petrol stations
- Hospitals and clinics
- · Passport offices
- · Post offices
- · Prisons and detention centres
- · Reception counters

- Stations and airports
- High security environments Theatre information and sales kiosks
 - ...and many more



STS-K002L

- For use in noisy environments which require communication privacy
- Proximity microphones on both 'staff' and 'customer' side of screen
- Optimal voice pick-up with minimum background noise
- · Easy installation: particularly suitable for retro-fitting

Specifications:

| Model: | STS-K001L / STS-K002L / STS-K003L |
|---------------------|-----------------------------------|
| Coverage | Up to 1.2m ² |
| Operating Current | 1A |
| Speaker Impedance | 4, 8Ω |
| Field Strength | Conforms to BS 6803 Pt14:1981 |
| Quiescent Current | >50mA |
| Harmonic Distortion | Typically >0.02% |
| Power Requirement | Audio Amplifier -12v DC |



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Brackets

Interactive & Projectors



| riigii opoomoation to Enolocates | |
|----------------------------------|-----------|
| Standard 19" Enclosures | 195 |
| Extra Deep 19" Enclosures | 195 |
| Accessories | 195 ~ 200 |
| Power Distribution Units | 201 ~ 203 |
| Dedicated Rack Design | 204 |

HT Series: High Specification 19" Rack Enclosures

Hi-tech Series of 19" enclosures, supplied in self assembly (flat pack) format for ease of transportation and storage.

Manufactured in 2mm plate steel, the units are sturdy and robust when assembled, with enclosures finished in RAL7035 (light grey) to blend into any environment.

Adjustable 19" profiles in both the front and rear of the enclosure allow flexibility for fitting equipment of various sizes into the housing.

A locking glazed door is also supplied to stop any unauthorised access to the enclosure contents. Further standard features include height adjustable feet, steel rear panel, removable access plate in bottom of enclosure and venting in the sides and top panels to assist with equipment cooling.

A full range of accessories is available (see pages 196 ~ 200).

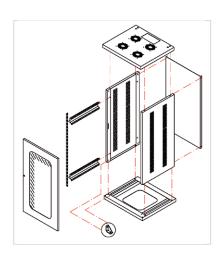
Features:

- Self assembly (flatpack)
- · High quality manufacture
- Adjustable 19" profiles (front & rear)
- · Locking glazed door
- Adjustable feet
- Cable access via bottom plate
- Venting
- Stable when assembled
- 5 sizes available

Hi-tech rack cabinet, self-assembly kit, composed of:

- one base (L:595/D:525mm) with cable access (300 x 300 mm) and 4 attachments with M10 thread
- one roof (L:595/D:525mm) with cable access (200 x 100 mm), provided to install up to 4 fans
- two sides with vent slots
- one rear cover panel
- one lockable steel door with plexiglass panel, which can be hung either left or right handed as desired (2 x keys)
- four "omega"-section bars for adjustment in depth of vertical rack strips;
- four "L"-section vertical 19" rack strips
- four 90° fixing squares
- four adjustable levelling feet
- set of mounting hardware
- assembly instructions





| Model: | 01511 | 01512 | 01513 | 01514 | 01515 |
|-----------------|------------------|--------------------|--------------------|--------------------|--------------------|
| Usable Height | 12U | 18U | 22U | 36U | 40U |
| Master Pack | A: 0.057m³, 22kg | A: 0.057m³, 22kg | A: 0.057m³, 23kg | A: 0.057m³, 24kg | A: 0.057m³, 24kg |
| | B: 0.035m³, 18kg | B: 0.055m³, 26.8kg | B: 0.068m³, 31.3kg | B: 0.071m³, 20kg | B: 0.072m³, 27kg |
| | | | | C: 0.072m³, 21.6kg | C: 0.071m³, 24.5kg |
| Mounting Height | 532mm | 800mm | 978mm | 1600mm | 1778mm |
| External Height | 616mm | 884mm | 1062mm | 1684mm | 1862mm |
| Internal Depth | 450mm (max) | 450mm (max) | 450mm (max) | 450mm (max) | 450mm (max) |
| External Depth | 525mm | 525mm | 525mm | 525mm | 525mm |
| Weight | 37.6kg | 46.5kg | 53.3kg | 60.9kg | 70.8kg |

LP Series: Standard 19" Rack Enclosures

Euromet's cost-effective range of 19" enclosures, supplied in self-assembly (flat pack) format for ease of transportation and

Manufactured in 2mm plate steel, the units are sturdy and robust when assembled and are finished in RAL9005 matt black. Fixed 19" profiles are standard in the front and back of the enclosure.

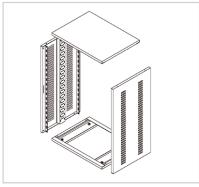
Other features include height adjustable feet and louvred venting and removable vented rear panel to assist with cooling of the installed equipment.

A full range of accessories is available (see pages 196 ~ 200).

Features:

- Self-assembly (flat pack)
- High quality manufacture
- · Adjustable feet
- Venting
- Removable rear panel
- Available in 5 different sizes
- Stable construction
- Optional glazed door (supplied as option, see below)





Specifications:

| Model: | 01226 | 01227 | 01228 | 01229 | 01230 |
|------------------|---------------|-----------------|---------------|-----------------|---------------|
| Usable Height | 8U | 12U | 18U | 22U | 26U |
| Master Pack | 0.036m³, 20kg | 0.04m³, 23.50kg | 0.059m³, 28kg | 0.059m³, 31.5kg | 0.064m³, 33kg |
| External Height* | 400mm | 578mm | 843mm | 1022mm | 1200mm |
| Internal Depth** | 435mm | 435mm | 435mm | 435mm | 435mm |
| External Depth | 500mm | 500mm | 500mm | 500mm | 500mm |
| Weight | 11.2kg | 22.6kg | 26.8kg | 30.3kg | 31.7kg |

^{*}External height dimensions without wheels or feet

Extra Deep 19" Rack Enclosures

Featuring extra deep internal useable depth (535 mm as opposed to the standard 435mm) the 19" Enclosures provide greater flexibility and space for work / equipment.

In addition, if required the 12U and 18U units can be 'stacked' to make a 30U Enclosure.

Specifications:

| Model: | 05370 | 05371 |
|-----------------|-------|-------|
| Useable Height | 12U | 18U |
| External Height | 578mm | 846mm |
| Internal Depth | 535mm | 535mm |
| External Depth | 640mm | 640mm |

Enclosure Door Options

Lockable plexiglass doors, supplied with 2 keys and matt nickel-plated hinges with a maximum of 170° opening.

| Model: | 00540: | 00541: | 00542: | 00543: | 00544: |
|--------------------|--------|--------|--------|--------|--------|
| Master Pack Weight | 1.7kg | 2.68kg | 3.7kg | 4.59kg | 5.25kg |
| Height | 350mm | 524mm | 790mm | 970mm | 1150mm |
| Width | 500mm | 500mm | 500mm | 500mm | 500mm |
| Weight | 1.2kg | 2.08kg | 2.9kg | 3.74kg | 4.25kg |

^{**}When used with the Inter-M range of products the optional door will not fit to the front of the enclosure without the removal of the equipment's mounting handles.

• 00536: 1U Rack Shelf

Rack shelf manufactured from steel plate (1.5 mm), finished RAL 9005, 1U, for accomodation of non-19" mounting equipment.

*Max load 40kg using this accessory:





Specifications:

| Model: | 00536 |
|------------|--------|
| Thickness | 1.5mm |
| Materials | Steel |
| Net Weight | 2.2kg |
| Max Load | 20kg * |

• 01911: 2U Rack Shelf

Rack shelf manufactured from steel plate (1.5 mm), finished RAL 9005, 2U, for accomodation of non-19" mounting equipment.

*Max load 40kg using this accessory:





Specifications:

| Model: | 01911 |
|------------|--------|
| Thickness | 1.5mm |
| Materials | Steel |
| Net Weight | 2.35kg |
| Max Load | 20kg * |

• 01912: 2U Lockable Rack Drawer

Lockable rack drawer manufactured from steel plate (1.5/2 mm) with telescopic slides, finished RAL 9005, 2U, for accomodation of tools, handbooks and small spare parts. Comes with two keys.



| • | |
|------------|---------|
| Model: | 01912 |
| Thickness | 1.5/2mm |
| Materials | Steel |
| Net Weight | 6kg |
| Max Load | 20kg |

Front rack cover panel, 1U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.



Specifications:

| Model: | EU/R-P1 |
|-----------|-----------|
| Thickness | 2mm |
| Materials | Aluminium |
| Colour | RAL 9005 |
| Weight | 0.15kg |

• EU/R-P2: 2U Rack Front Cover Panel

Front rack cover panel, 2U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.



Specifications:

| Model: | EU/R-P2 |
|-----------|-----------|
| Thickness | 2mm |
| Materials | Aluminium |
| Colour | RAL 9005 |
| Weight | 0.27kg |

• EU/R-P3: 3U Rack Front Cover Panel

Front rack cover panel, 3U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.



Specifications:

| Model: | EU/R-P3 |
|-----------|-----------|
| Thickness | 2mm |
| Materials | Aluminium |
| Colour | RAL 9005 |
| Weight | 0.39kg |

EU/R-P4: 4U Rack Front Cover Panel

Front rack cover panel, 4U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.



| Model: | EU/R-P4 |
|-----------|-----------|
| Thickness | 2mm |
| Materials | Aluminium |
| Colour | RAL 9005 |
| Weight | 0.53 kg |

• 00618: 1U Rack Front Ventilation Panel

Front panel, 1U, in aluminium (2 mm), finished RAL 9005, punched for ventilation.



Specifications:

| Model: | 00618 |
|------------|-----------|
| Thickness | 2mm |
| Materials | Aluminium |
| Colour | RAL 9005 |
| Net Weight | 0.14kg |

• 02014: 1U Rack Front Security Panel

Front panel, 1U, made of steel plate (1.2 mm), finished RAL 9005, punched, for protection of projecting equipment.



Specifications:

| Model: | 02014 | |
|------------|-----------|--|
| Thickness | 1.2mm | |
| Materials | Aluminium | |
| Colour | RAL 9005 | |
| Net Weight | 0.35kg | |

• 02015: 2U Rack Front Security Panel

Front panel, 2U, made of steel plate (1.2 mm), finished RAL 9005, punched, for protection of projecting equipment.



| Model: | 02015 |
|------------|-----------|
| Thickness | 1.2mm |
| Materials | Aluminium |
| Colour | RAL 9005 |
| Net Weight | 0.48kg |

Front panel, 1U, made of steel plate (1.2 mm), finished RAL 9005, with plexiglass window, to protect equipment. Avoids unauthorised



Specifications:

| Model: | 02012 |
|------------|----------|
| Thickness | 1.2mm |
| Materials | Steel |
| Colour | RAL 9005 |
| Net Weight | 0.41kg |

• **02013:** 2U Plexiglass Security Rack Cover

Front panel, 2U, made of steel plate (1.2 mm), finished RAL 9005, with plexiglass window, to protect equipment. Avoids unauthorised



| Model: | 02013 |
|------------|----------|
| Thickness | 1.2mm |
| Materials | Steel |
| Colour | RAL 9005 |
| Net Weight | 0.59kg |

Hi-Tech Rack Upright Supports

Additional pair of 'omega'-section 19" rack strips with fixing holes, finished RAL7035. Permits fixing in different positions in depth on 'omega'-section horizontal strips.

Guarantees additional support for heavyweight equipment.

Specifications:

| Model: | Hi-Tech Rack Upright Supports | |
|-----------|-------------------------------|--|
| Link With | Rack Series hi-tech | |
| Thickness | 2mm | |
| Materials | Steel | |
| Colour | RAL 7035 | |

Specifications:

| Model | Usable Height | Item | Net Weight | Height |
|-------|---------------|---|------------|--------|
| 01841 | 12U | Pair Rack Hi-Tech Upright 12U, RAL7035 | 1.4kg | 532mm |
| 01842 | 18U | Pair Rack Hi-Tech Upright 18U, RAL7035 | 2.1kg | 800mm |
| 01843 | 22U | Pair Rack Hi-Tech Upright 22U, RAL7035 | 2.6kg | 978mm |
| 01844 | 36U | Pair Rack Hi-Tech Upright 36U, RAL7035 | 4.2kg | 1600mm |
| 01845 | 40U | Pair Rack Hi-Tech Upright 40U, RAL7035 | 4.7kg | 1778mm |

• 02021: Non-Lockable Rack Wheels

Specifications:

| Model: | 02021 |
|------------|--------|
| Net Weight | 0.24kg |
| Max Load | 50kg |



Specifications:

| Model: | 02020 |
|------------|--------|
| Net Weight | 0.24kg |
| Max Load | 50kg |



00565: Pair of Equipment Support Brackets

Pair of brackets made of steel plate (2mm), galvanized.

These bars guarantee an additional support of heavyweight equipment. Fixed by coupling on 'omega'-section uprights.

| Model: | 00565 |
|------------|--------------------------------|
| Thickness | 2mm |
| Materials | Steel |
| Treatments | Galvanization - Zincatura 8005 |
| Net Weight | 0.056kg |







PDUA-MH1023-0801: 8 Port Monitored PDU - 10A

PDUA-MH1623-0801: 8 Port Monitored PDU - 16A

This monitored Power Distribution Unit provides live current consumption monitoring to its built-in current meter and remotely via web interface.

When current consumption exceeds the pre-set threshold, the monitored PDU will send email alerts or 'trap' network notifications and isolate the PDU to prevent damage to the system.

Free Power Management Software is bundled in with the PDU, displaying power consumption and event data and allowing control of power conditioning.

Features:

- Built-in web server for real-time monitoring of current consumption
- Built-in true RMS current meter
- Audible alarm should power consumption exceed set threshold
- Email alert sent to remote monitor and powertrip, should power consumption exceed set threshold
- Built-in circuit breaker
- Only 1U high and suitable for rack mounting



System Racks with Monitored PDU installed Remote Monitor with ver Management Soft-

| Model: | PDUA-MH1023-0801 | PDUA-MH1623-0801 | |
|------------------------|--|----------------------|--|
| Number of Ports | 8 | 8 | |
| Capacity | 10A | 16A | |
| Input Voltage | 230v | 230v | |
| Output Socket | IEC | IEC | |
| Interface | RJ45: Ethernet | for connecting to PC | |
| Frequency | 50/60 | HZ full range | |
| LED indicator | Yellow LED x 1 (Current Meter), Green LED x 1 (IP Address) | | |
| Alarm | Warning: 1 beeps per second Overload: 3 beeps per second Circuit Breaker: triggered - continuously beeps | | |
| Meter | 3 Digital Meter x 1 Range: 0A ~ 20A (true RMS) Resolution: 0.1A Precision: +/- 0.1 AMP | | |
| Operating Temperatures | 0 ~ 40°C | | |
| Storage Temperatures | -25 ∼ 65°C | | |
| Humidity | 0 ~ 90% | | |
| Height | 44mm (1u) | | |





PDUA-PH1623-0801: 8 Port Per-Outlet Monitoring PDU

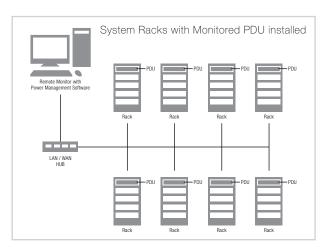
This intelligent power management unit provides live current consumption monitoring per power outlet port, reporting directly to the unit's built-in current meter and remotely via web interface.

When current consumption of any individual power port exceeds the pre-set threshold, the POM PDU will send an email alert to the remote monitor (such as a computer, tablet, etc) and will isolate the individual outlet port to protect the system.

Features:

- Per-outlet port consumption monitoring
- Built-in web server for real-time monitoring of current consumption
- Built-in true RMS current meter
- Audible alarm (should power consumption exceed set threshold)
- Email alert sent to remote monitor and power trips (should power consumption exceed set threshold)
- Real time, remote on/off power control of each unit
- Built-in circuit breaker
- SNMP support
- Outlet and circuit status LED indicators
- Supports power-up sequence
- Only 1U high and suitable for rack mounting





| Model: | PDUA-PH1623-0801 |
|-----------------|---|
| Number of Ports | 8 |
| Capacity | 16A |
| Input Socket | 1/EC 320 C20 |
| Output Socket | 8/EC 320 C13 |
| Power Cord | 1/EC 320 C19 to C20, 3 metres |
| Circuit Breaker | 1/16 Amp |
| Nominal Voltage | 160 ~ 320v |
| Voltage | 230v |
| Frequency | 47, 63Hz full range |
| Temperature | -5 ~ 45°C |
| Humidity | 0 ~ 90% |
| Conformance | FCC, CE, Ready for the UL |
| Meter | RJ-45 for Ethernet / Supports up to 8 PDUs via RJ-11 / 1RJ-11 for temperature/humidity detection / Reset for Hardware reset / 3Digits + 1Digit / Warning and Overload: 1 beep in 1 second/3 beeps in 1 second / Range: 0A – 20A (true RMS) / Resolution: 0.1A / Precision: /-2% +/-0.1 AMP / 1 digital for POM PDU identification |
| LED Indicator | Yellow LED: SSL is enabled Green LED: IP address Red LED: POM PDU connecting status |
| Dimensions | 160(W) x 432(H) x 44(D) mm |
| Weight | 6ka |







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PDUA-SH1623-0801: 8 Port SNMP Switched POM PDU with Current Meter (horizontal)

PDUA-SV1623-1601: 16 Port SNMP Switched POM PDU with Current Meter (vertical)

PDUA-SH3223-2403: 24 Port SNMP Switched POM PDU with Current Meter (vertical)

The DataBay SNMP switched PDUs provide remote power management solutions which allow I.T. administrators to monitor servers and network devices should any power consumption issues

These units allow remote and on-site power monitoring through event alerts by email, 'TRAP' (network notifications) and audible alarm.

Each unit's built-in digital current meter will indicate the total power consumption of each power strip. Using the software supplied, these units also provide remote on/off switching functionality.

- Integrated web server manages real time current consumption of PDU
- · Built-in true RMS current meter
- · Easy set up, meter display IP address
- Audible Alarm 2 separate warning audible signals for threshold warning and overload
- Email and SNMP traps sent when power exceeds warning threshold or overload threshold
- Free utility software for managing multiple PDUs
- Circuit breaker power protection
- Low profile, slim design makes it easy to mount in server cabinets
- Real time, remote on/off power control of each unit
- LED on each unit to indicate power status
- · Power-on sequencing to avoid in-rush of power

| Model: | PDUA-SH1623-0801 | PDUA-SV1623-1601 | PDUA-SV3223-2403 | |
|-----------------------|--|--|------------------|--|
| Number of Ports | 8 | 16 | 24 | |
| Input Voltage | 230v | 230v | 230v | |
| Capacity | 16A | 16A | 32A | |
| Breakers | 1CB | 1CB | 3CB | |
| Interface | | RJ45 for Ethernet | | |
| Frequency | | 50 ~ 60Hz full range | | |
| LED Indicator | Ye | Yellow LED: SSL is enabled / Green LED: IP address | | |
| Audible | Warning: 1 beep per second Overload: 3 beeps per second Circuit Breaker: triggered-continuous beeps | | | |
| Meter | 3 Digitals Warning and overload - Meter will flash once per second Range: 0A ~ 20A (true RMS) Resolution: 0A ~ 20A: 0.1A Precision: 0.A ~ 20A: +/- 2% +/-0.1 Amp | | | |
| Operating Temperature | 0 ~ 40°C | | | |
| Storage Temperature | -25 ~ 65°C | | | |
| Humidity | 0 ~ 90% | | | |



Dedicated Rack Design & Build Facility

For many years, CIE-Group customers have also benefited from our comprehensive Audio Rack System Design & Build Service, to provide 'ready to install' PA, VA and AV Racks in some of the UK's largest and most successful installations.

Using our extensive portfolio of professional audio products, our highly skilled, UK-based Technical Services have a reputation for consistently producing some of the UK's highest quality, ready-to-install PA rack systems to customers' specifications.

There is no set limit to the size of system we can produce; anything from a small single zone speech-only system, to a multi-zone system combining speech and music. Monitoring and battery back-up can also be accommodated by our in-house Technical Services Facility.

To ensure that we build your system to your specific requirements, we have produced a technical questionnaire which, once completed by yourselves or with our assistance, outlines requirements such as number of zones, music sources, number of microphones, etc.

Each system is supplied assembled, wired and fully tested before leaving our workshops. As part of the Build Package, each System is supplied with a comprehensive operations manual incorporating user instructions for each individual piece of equipment, a schematic drawing of the System, a visual of the Rack layout and easy to use connection details. Finally, each System is given a unique identification number specific to your installation which allows our Technical Services Team to easily identify any system we have assembled, to efficiently assist with any after sales service requirements.

Call the CIE-Group sales desk or your area representative on +44 (0)115 9770075 for advice, free UK site surveys and a highly competitive quotation.











Interactive & Projectors



| 20ddopoditor Bracitoto | | |
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| Loudspeaker Tripod Stands | | 208 |
| LCD/TFT Display Brackets | 209 ~ | 213 |
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| Projector Tripod Stand | | 218 |

• SB10: Low-Cost Loudspeaker Bracket

Low cost loudspeaker wall mounting bracket with 50 $\sim 70~\text{mm}$ fixing centres.



Specifications:

| Model: | SB10 |
|---------------------|------------------------------|
| Tilt | 15° up/down, pan/swivel: 90° |
| Maximum load weight | 5kg |
| Weight | 0.1kg |

• 01463: Utility Swivel Loudspeaker Bracket

Wall-mounting bracket with wall plate (118 \times 30 \times 4 mm) and speaker fixing plate (111 \times 40 \times 4 mm). This assembly swivels in the horizontal plane and may also be tilted.

Lockable in optimum position by fixing the swivel nut.



Specifications:

| Model: | 01463 |
|---------------|--------|
| Material | Steel |
| Mount Rotates | 180° |
| Maximum Load | 5kg |
| Weight | 0.55kg |

• 01936: Loudspeaker Bracket

Wall-mounting bracket with wall plate (30 x 40 x 3 mm) and speaker fixing plate (30 x 50 x 3 mm). This assembly swivels in the horizontal plane and may also be tilted.

Lockable in optimum position by fixing the swivel nut.



Specifications:

| Model: | 01936 |
|---------------|--------|
| Material | Steel |
| Mount Rotates | 180° |
| Maximum Load | 5kg |
| Weight | 0.15kg |

CIE-Group recommend that safety cables are fitted with all wall-mounted loudspeaker brackets.

Local regulations may be in force in certain areas concerning the safe fixing of objects in public areas.



| • | | | | | |
|-------------|-------------|-------------|-------------|-------------|---------------|
| Model: | 03279 | 03280 | 03281 | 03284 | 03518 |
| Description | Safety Wire | Safety Wire | Safety Wire | Safety Wire | Security Clip |
| Gauge | 3mm | 3mm | 3mm | 1.5mm | - |
| Length | 200mm | 400mm | 600mm | 600mm | - |
| Supports | 50kg | 50kg | 50kg | 50kg | 30kg |

00479: Medium Duty Speaker Bracket

Wall-mounting bracket featuring speaker fixing plate with 6 holes.



Specifications:

| Model: | 00479 |
|---------------|-------|
| Material | Steel |
| Mount Rotates | 360° |
| Maximum Load | 10kg |
| Weight | 0.8kg |

00498: Adjustable Heavy Duty Speaker Bracket

Adjustable wall-mounting bracket with arm L=260 mm and male attachment H=120mm, $35(\emptyset)$ mm to hold speaker. The arm, with an adjustable support to clamp the speaker, swivels in the horizontal plane and may also be tilted.

Position of support from the centre of male attachment min. 180mm, max. 260 mm. Wall plate 250 x 140 mm with 4 holes $10(\emptyset)$ mm to fix bracket.



Specifications:

| Model: | 00498 |
|------------------------------|---------|
| Material | Steel |
| Mount Rotates | 120° |
| Female Attachment Dimensions | 36(Ø)mm |
| Male Attachment Dimensions | 35(Ø)mm |
| Maximum Load | 40kg |
| Weight | 2.3kg |

03433: Speaker Bracket with Rotational Adjustment

Adjustable wall-mounting bracket with 320 mm long arm and male attachment (120(L) mm \times 35(Ø) mm). Features progressive inclination of 4° through a nylon wheel joint.



| Model: | 03433 |
|----------------------------|---------|
| Material | Steel |
| Mount Rotates | 120° |
| Male Attachment Dimensions | 35(Ø)mm |
| Maximum Load | 40 kg |
| Weight | 2.1kg |

• 03180: Tripod Speaker Stand

Floor-standing with tripod legs and full aluminium structure. The 03180 features solid centre pole and extra strength bracketed supports ensuring no breakage through twist or bend.

Height adjustable and lockable using nylon fixing clamp. Tripod legs can be fully closed for minimum space requirement during transportation.

Finished in black.



Specifications:

| Model: | 03180 |
|------------------------------|----------------|
| Material | Aluminium |
| Female Attachment Dimensions | 36(Ø)mm |
| Male Attachment Dimensions | 35(Ø)mm |
| Footprint Diameter | 1000mm |
| Closed Length | 1255mm |
| Min/Max. Height | 1305 ~ 2250 mm |
| Maximum Load | 40kg |
| Weight | 3.4kg |

• 00564: Tripod Loudspeaker Stand

Aluminium tripod stand with adjustable height using a nylon fixing clamp. Comes with nylon flange with holes and slots for mounting of speaker.

Fully closing tripod legs assist in space reduction during transit.



| Model: | 00564 |
|------------------------------|----------------|
| Material | Aluminium |
| Female Attachment Dimensions | 26(Ø)mm |
| Male Attachment Dimensions | 25(Ø)mm |
| Footprint Diameter | 880mm |
| Closed Length | 950mm |
| Min/Max. Height | 1090 ~ 1830 mm |
| Maximum Load | 15kg |
| Weight | 1.6kg |

Adjustable monitor wall bracket, nylon made. Plate 120 x 120 x 4 mm, 4 holes 4.5(Ø) mm distance 75 and 100mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (\pm 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(Ø) mm with 2 holes 4.5(Ø) mm, to fix bracket.

This support is fixable with all LCD/TFT monitors.



Specifications:

| Model: | 04754 |
|---------------|-----------------------------|
| Tilt Angle | 50° |
| Materials | Nylon Base/Steel VESA Plate |
| Treatment | RAL 9010 White |
| Thickness | 4mm |
| Closed Length | 105mm |
| Max Load | 5kg |
| Net Weight | 0.98kg |

04929: LCD/TFT Monitor Wall Bracket - Black

Adjustable monitor wall bracket, nylon made. Plate 120 x 120 x 4 mm, 4 holes 4.5(Ø) mm distance 75 and 100 mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (\pm 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(Ø) mm with 2 holes 4.5(Ø) mm, to fix bracket.

This support is fixable with all LCD/TFT monitors.

| Model: | 04929 |
|---------------|-----------------------------|
| Tilt Angle | 50° |
| Materials | Nylon Base/Steel VESA Plate |
| Treatment | RAL 9005 Black |
| Thickness | 4mm |
| Closed Length | 105mm |
| Max Load | 5kg |
| Net Weight | 0.98kg |

• 04681: LCD/TFT Monitor Wall Bracket - White

Adjustable monitor wall bracket, steel made. Plate 120 x 120 x 3 mm, 4 holes 4.5(Ø) mm distance 75 and 100 mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (\pm 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(\varnothing) mm with 2 holes 4.5(\varnothing) mm, to fix bracket.

This support is fixable with all TFT monitors.



Specifications:

| Model: | 04681 |
|---------------|----------|
| Tilt Angle | 50° |
| Materials | Steel |
| Treatment | RAL 7035 |
| Thickness | 3mm |
| Closed Length | 105mm |
| Max Load | 15kg |
| Net Weight | 1.77kg |

• 05199: LCD/TFT Monitor Wall Bracket - Black

Adjustable monitor wall bracket, steel made. Plate $120\times120\times3$ mm, 4 holes $4.5(\varnothing)$ mm distance 75 and 100 mm, $4.5(\varnothing)$ mm (Standard Vesa).

The monitor is tiltable (\pm 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(\varnothing) mm with 2 holes 4.5(\varnothing) mm, to fix bracket.

This support is fixable with all TFT monitors.



| Model: | 05199 |
|---------------|----------|
| Tilt Angle | 50° |
| Materials | Steel |
| Treatment | RAL 9005 |
| Thickness | 4mm |
| Closed Length | 105mm |
| Max Load | 15kg |
| Net Weight | 1.77kg |



BF2750: Low-cost Display Screen Mount (Flat to Wall)

Features:

- For screen sizes of 13" ~ 27"
- Integrated spirit level bubble
- Two-piece lockable design
- Maximum load weight: 25kg
- Aluminium allow construction



 BT2750: Low-cost Display Screen Mount (Adjustable)

Features:

- For screen sizes of 13" ~ 27"
- 15° up/down, 90° pan rotation
- Integrated spirit level bubble
- Two-piece lockable design
- Maximum load weight: 20kg
- Aluminium allow construction

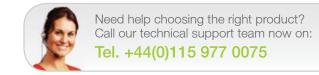


 BF7510: Low-cost Large Display Screen Mount (Flat to Wall)

Features:

- For screen sizes of 27" ~ 75"
- Integrated spirit level bubble
- Expandable wall plate
- Maximum load weight: 90kg
- Steel construction





08000: LCD/Plasma Screen Floor Stand

This stand allows you to mount monitors with fittings with a 284 $_{\rm 7}$ 700 mm horizontal pitch and 80 \sim 480 mm vertical pitch.

The base has four arms for feet or castor installation.



Specifications:

| Model: | 08000 |
|---------------|------------------------------|
| Link With | H290 ~ 760 V 85 ~ 480 |
| Materials | Steel |
| Treatment | Anthracite |
| Closed Length | 700(W) x 1820(H) x 700(D) mm |
| Max Load | 50kg |
| Net Weight | 22.5kg |

• 07500: LCD/Plasma Screen Floor Stand

Features:

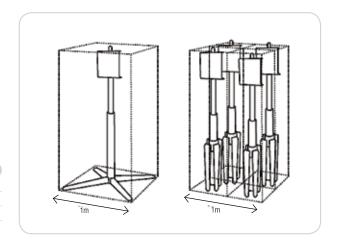
- For monitors 35" ~ 50"
- Height adjustable from 1250 ~ 1650 mm, measured from floor to the media line of the monitor
- Designed so that the floor supports can be replaced with wheels, upon request
- Ideal for rental arrangements
- The folding legs of the base reduce the bulk of the support
- Can include a shelf for recording or decoder equipment

Available for mounts measuring:

- 200 x 200 mm
- 200 x 100 mm
- 120 x 150 mm
- 150 x 150 mm
- 100 x 100 mm75 x 75 mm



| Model: | 07500 |
|---------------|--------------------------------|
| Closed Length | 160(W) x 1950(H) x 160(D) mm |
| Max Dimension | 1000(W) x 1950(H) x 1000(D) mm |
| Max Load | 50kg |
| Ship Weight | 17kg |



08100: LCD/Plasma Screen Floor Stand with Wheels

This stand allows you to mount screens with VESA fittings 75 x 75, 100 x 100, or 200 x 100 mm.

The base can easily go through doorways and the four castors can be hidden.

| Model: | 08100 |
|--------------------|------------------------------|
| Link With | VESA Fino a 200 x 200 |
| Mount Rotates | 360° |
| Tilt Angle | 0° |
| Materials | Steel |
| Treatment | Anthracite |
| Footprint Diameter | 1000mm |
| Min/Max Height | 1120 ~ 1520 mm |
| Closed Length | 870(W) x 1250(H) x 520(D) mm |
| Max Load | 30kg |
| Net Weight | 17.5kg |



P100L: Low-cost Projector Ceiling Mount Bracket

Features:

- Adjustable tilt, 360° rotation and integrated cable management
- Maximum load weight: 15kg
- Aluminium alloy construction



- 04382: Universal Projector Ceiling Mount Bracket - Silver
- 04325: Universal Projector Ceiling Mount Bracket - Black

Universal ceiling mount bracket, adjustable for dia/video-projectors, steel made, with arm L150 mm.

It is tiltable in vertical (+-25°) and in the horizontal plane (360°) working on the central part (H40 mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket.

The support will be fixed to the ceiling by a plate $160(\varnothing)$ mm with 38 mm holes and 3 buttonholes grant a very quick inspection for maintenance. To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).



| Model: | 04382 / 04325 |
|---------------|---------------|
| Mount Rotates | 360° |
| Tilt Angle | 50° |
| Materials | Steel |
| Thickness | 1.5, 4mm |
| Closed Length | 250mm |
| Max Load | 10kg |
| Net Weight | 2.20kg |

04326: Telescopic Universal Projector Ceiling Mount Bracket - Black (400~600mm)

Ceiling mount bracket, adjustable for dia/video-projectors, steel made, with arm L:400~600mm. It is tiltable in vertical (±25°) and in the horizontal plane (360°) working on the central part (h40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket with the bracket.

The support will be fixed to the ceiling by a plate $160(\varnothing)$ mm with 38 mm holes and 3 buttonholes grant a very quick inspection for maintenance. To apply the Dia-Video to the support, use 4 arms of different dimensions (78, 138, 168mm).



| Model: | 04326 |
|------------------|--------------|
| Mount Rotates | 360° |
| Tilt Angle | 50° |
| Max Monitor Size | No Limits |
| Materials | Steel |
| Treatment | Anthracite |
| Thickness | 1.2, 4mm |
| Min/Max Height | 400 ~ 600 mm |
| Closed Length | 415mm |
| Max Load | 10kg |
| Net Weight | 2.60kg |

- 04934: Telescopic Universal Projector Ceiling Mount Bracket - Black (780~1100mm)
- 05399: Telescopic Universal Projector Ceiling Mount Bracket - Silver (780~1100mm)

Universal ceiling mount bracket, adjustable for dia/video-projectors, steel made, with arm L: 780 \sim 1100 mm. There are two holes D: 65 x 30 mm to enable the passage of the cables included VGA.

It's tiltable in the vertical ($\pm 25^{\circ}$) and in the horizontal plane (360°) working on the central part (H 40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket. The support will be fixed to the ceiling by a plate 200(\oslash) mm with 3 holes of 8mm, and 3 buttonholes grant a very quick inspection for maintenance.

To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).



| epocinoationo: | |
|------------------|---------------|
| Model: | 04934 / 05399 |
| Mount Rotates | 360° |
| Tilt Angle | 50° |
| Max Monitor Size | No Limits |
| Materials | Steel |
| Treatment | Anthracite |
| Thickness | 1.5, 2mm |
| Min/Max Height | 780 ~ 1100 mm |
| Closed Length | 780mm |
| Max Load | 10kg |
| Net Weight | 3.90kg |

euromet

04327: Universal Projector Wall Mount Bracket - Black

Wall mount bracket, adjustable for dia/video-projectors, steel made, with arm L: 350mm.

It is tiltable in vertical ($\pm 25^{\circ}$) and in the horizontal plane (360°) working on the central part (H 40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket. The support will be fixed to the ceiling by a plate $160(\emptyset)$ mm with 3 8mm holes, and 3 buttonholes grant a very quick inspection for maintenance.

To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).



05054: Universal Projector Wall Mount Bracket - Silver

Wall mount bracket, adjustable for dia/video-projectors, steel made, with arm L: 350mm.

It is tiltable in vertical ($\pm 25^{\circ}$) and in the horizontal plane (360°) working on the central part (H 40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket. The support will be fixed to the ceiling by a plate $160(\emptyset)$ mm with 3 8mm holes, and 3 buttonholes grant a very quick inspection for maintenance.

To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).



| Model: | 04327 | 05054 |
|----------------|----------------|----------------|
| Mount Rotates | 360° | 360° |
| Tilt Angle | 50° | 50° |
| Materials | Steel | Steel |
| Treatment | Anthracite | Silver |
| Thickness | 1.5, 4mm | 1.5, 4mm |
| Min/Max Height | 1040 ~ 1850 mm | 1040 ~ 1850 mm |
| Closed Length | 415mm | 415mm |
| Max Load | 10kg | 10kg |
| Net Weight | 2.70kg | 2.70kg |

euromet

• 05322: Projector Floor Stand with Tripod Legs

Dia/Video adjustable steel and aluminium floor stand. Thanks to the new tilting system it is possible to tilt the steel plate working on the knob.

The steel plate is: $415 \times 355 \times 2$ mm in order to prevent the equipment from falling down, we placed a small tube structure that gives a very nice design and utility. The height of the stand is adjustable from $1040 \sim 1850$ mm working directly on it.

To facilitate transport and to save space the top plate section can be separated.





| Specifications. | | |
|--------------------|----------------|--|
| Model: | 05322 | |
| Mount Rotates | 360° | |
| Tilt Angle | ±12° | |
| Materials | Aluminium | |
| Footprint Diameter | 1000mm | |
| Thickness | 1.5mm tubes | |
| Min/Max Height | 1040 ~ 1850 mm | |
| Closed Length | 1000mm | |
| Max Load | 10kg | |
| Net Weight | 6.75kg | |



| Digital Interactive Ferr | 220 |
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Duo-Pen: Digital Interactive Pen

The DuoPen digital pen is an innovative USB input device which can convert any ordinary laptop or desktop computer monitor into a fully interactive touch screen device.

Using DuoPen you can enhance and improve the potential of your computer/PC's capabilities.

DuoPen adds the ability to operate the PC mouse facilities via the screen, incorporates handwriting and drawing options and is ideal as an interactive interface for design and gaming options.

Simple to install, the DuoPen immediately upgrades the PC/Laptop to provide full interactive functionality by using a combination of ultrasonic waves and infrared to plot or recognise the pen's location on the screen.

Features:

- Allows you to write directly onto the screen
- Enables full touchscreen functionality for use with an ordinary notebook/PC
- Note-taking function allows users to write on a normal piece of paper which is clipped into the receiver station and saved directly into your notebook/PC for later use
- Precise and fine writing ability with DuoPen's patented technology and Microsoft Ink Library
- Hover mode function which enables it to operate in free space, for smooth writing and gaming applications
- Virtual writing means no actual pressure is placed on the screen. Used for drawing delicate pictures and using air brush effects
- Word recognition supported on Windows Vista Premium and higher (including Windows 7) or by installing software from CD or internet free downloads
- Gesture (motion) recognition (also known as 'pen flicks'), allows the user to execute various pre-defined functions easily when using internet, e-mail or selected software
- Carry bag supplied with spare pen and fibre nib tips. Fibre nibs supplied for use on plastic LCD or LED screens.
- Real ball-point pen tip and electronic pen tip also included





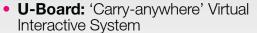




| • | |
|-------------------------|-----------------------------------|
| Model: | Duo-Pen |
| Operating Area | 170mm ~ 358mm |
| Power Source | 5v DC (USB) / LR41 cell batteries |
| Technology | Ultrasonic and Infrared |
| Sampling Rate | Over 70Hz |
| Device Standard | HID pen device |
| Operating Temp/humidity | 0 ~ 40°C / 20 ~ 80% Humidity |
| System Requirements: | |
| CPU | 1GHz Pentium compatible |
| RAM | Over 512MB |
| OS | Windows XP / VISTA / Windows 7 |
| Interface | USB port / CD-ROM driver |
| | |







U-Board/Wireless: Wireless 'Carry-anywhere' Virtual Interactive System

Our new UBoard system provides the ultimate in 'retrospective Virtual Interactive Systems': converting any conventional projector into a high performance virtual interactive board solution.

Stylish, simple to set-up and extremely portable, UBoard consists of a small magnetic-mount System Controller/Transmitter and UBoard EPen.

By mounting the UBoard Controller/Transmitter onto the edge of any conventional dry-wipe board - or simply onto any clear, light coloured wall - any flat surface can be immediately transformed into a fully-interactive working/teaching space; providing an advanced interactive software drawing/annotation package plus full control of any standard software installed on your computer.

Performance, functionality and incredible interactive features in this 'go-anywhere' pocket-sized solution!...

Features:

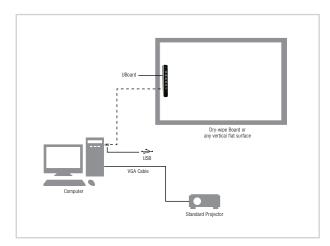
- · High performance
- · Dedicated ASIC chipset
- · Fast response time
- · High resolution
- Ultra smooth response

Best Writing Quality:

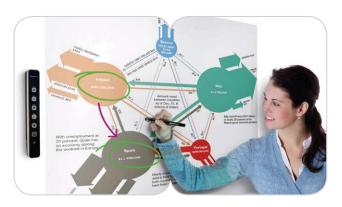
- Smooth writing touch and feel
- Virtual Pressure Brush effects without programming
- · State-of-art noise filtering

Excellent Usability:

- 120" working area
- Slim, distinctive & stylish design
- · Wireless connectivity
- High portability
- · Rechargeable Battery
- No software installation
- Integrated Laser Pointer
- 100% Microsoft & Apple compatibility







| Model: | UBoard: Station |
|------------------------|--------------------------|
| Effective Working Area | 120 Inches |
| USB Device Class | Microsoft HID Pen |
| Sampling Frequency | 40kHz |
| Power | USB 5v/100mA |
| Dimension | 30(W) x 17(H) x 22(L) mm |

| Model: | UBoard: Digital Pen |
|---------------------------|---|
| Power | 3.7v/180AH |
| Battery | Rechargeable Lithiumpolymer battery |
| Rechargeable terminal | 3.5mm jack |
| Button | Right & Left Mouseclick |
| Battery monitoring | 2 step LED Indicator |
| Full recharging time | 2 hours |
| Continuous Operating time | 15 hours |
| Power saving mode | Activating automatic power saving logic after 20 sec idle time |
| USB recharging cable | 70cm |
| Active Laser pointer | Attachable to the digital pen / Shares power with the digital Pen |

| Model: | UBoard: Interface |
|------------------|--|
| Computer | IBM PC Compatible |
| CPU | Intel Pentium or Above Inter Compatible Type |
| Interface | USB 2.0 full speed or USB 1.1 |
| Operating System | Windows XP/Vista/7/Apple Mac |
| RAM Minimum | 1Gb |

| Model: | UBoard: Environment and Software |
|-----------------------------------|----------------------------------|
| Humidity | 0 ~ 90RH +35°C (non condensing) |
| Recommended operating temperature | 15° ~ 40°C |











PVI2600: ProVue Interactive Projector PVI2500SP: ProVue Ultra Short Throw

Our new Pro-Vue Interactive projectors provide a whole new dimension to interactive teaching and presentation; all the benefits of an interactive whiteboard... without the whiteboard!

Interactive Projector

The Pro-Vue features integrated infrared technology which means that virtually any surface can be used as an interactive screen!

From a conventional dry-wipe whiteboard, to retractable tripod screens or simply walls, ceilings or even floors! - any surface can be used as a fully interactive screen. In addition, the size of your interactive 'screen' is only limited to the space available (imagine how big the screen could be using a simple, clear wall in the school hall?).

... And your interactive projector is fully portable. Easily stored/transported in a lightweight canvas bag, Pro-Vue Interactive can be taken anywhere your interactive presentation needs to go; whether it be room-to-room, city-to-city or even international travel (try transporting conventional interactive whiteboard setup on your next flight!)

Features:

- Available as Standard and new Ultra Short Throw versions
- High brightness: 2600 ANSI Lumens
- Supplied with both E-Pen & extendable E-Wand tools
- · Easy installation & maintenance even when ceiling mounted:
 - Built-in auto detector sensor

 - Side change filter Side change lamp
- Integrated security features:
 - Electric pin lock
 - Metal anchor lock
- Image freeze
- 4 x digital zoom
- 7 display modes
- 8W audio speaker
- Quiet (33dB at ECO-mode) • Multi-language on-screen display
- RJ45 LAN remote control (optional)
- User definable start-up screen (logo capture)
- Low power consumption
- 6 auto functions: search, sync, ceiling, keystone, filter & lamp alert
- · Superb quality images



| Model: | PVI2600 | PVI2500SP |
|----------------------|---|-----------------------------|
| Speaker | Mor | no 8W x 1 |
| Power Requirement | 100v AC ~ | - 240v, 50/60Hz |
| Power Consumption | Max 285W, Standby < 2.6W | 310W |
| Standard Accessories | E-Wand, E-Pen, Remote Control, Canvas Carry Case, Driver CD-Rom, 1.5M USB Cable, User Manual | |
| Dimensions | 325(W) x 97(H) x 260(D) mm | 360(W) x 132(H) x 348(D) mm |
| Weight | 3.4kg | 4.1kg |

| Projection System | 3LCD technology | |
|-------------------|---|----------------|
| Brightness | 2600 lumens | 2500 lumens |
| Contrast Ratio | 500:1 | 500:1 |
| Resolution | Native: XGA (1024 x 768) Maximum: UXGA (1600 x 1200) Aperture ratio: 4:3 native / 16:9 compatible | |
| Projection Lens | PVi2600: 1.2X zoom lens, f = 18.53 ~ 22.18 mm F/1.65 ~ F/1.93 | |
| Lamp | 200W UHP | 210W UHP |
| Fan Noise | 33dB @ ECO | |
| Throw Distance | 1.11 ~ 10.57 m (approx. 100" at 2.88M) | 0.636 ~ 1.26 m |
| Throw Ratio | 1.41 ~ 1.7 | 0.63 |

| Interactive Functions | |
|--------------------------|--|
| Light emitted | Infrared |
| CMOS Camera | Built into projector |
| Power Requirement | E-Pen - 2 x AAA Batteries E-Wand - 2 x AA Batteries |
| E-Wand Extendable Length | 620 ~ 920 mm |







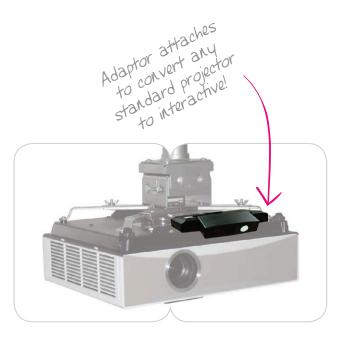
This cost-saving 'Adaptor-only' version of ProVue Interactive allows any existing standard projector to be simply and effectively converted to an interactive projector, allowing almost any surface (such as walls, dry-wipe boards, curtains, ceilings or floors!) to be used as a virtual, fully interactive screen!

In addition, the size of your virtual interactive screen is only limited to the space available and positioning of your projector (imagine how big the screen could be using a simple, clear wall in the school assembly hall?).

Features:

- Converts your standard projector to interactive
- No whiteboard required
- Supplied with both E-Pen and extendable E-Wand control tools
- Ceiling mount, USB connection cable and software supplied
- Powered from USB interface connection
- Flexible positioning of unit





| Model: | PVI14V | |
|----------------------------------|--|--|
| Interactive Technology | Infrared | |
| Sensor Accuracy | ±6 pixels | |
| Throw Ratio | 1.4 | |
| Screen Size | Up to 120 inch screen diagonal | |
| Included Standard Accessories | E-Pen, extendable E-Wand, USB cable, mounting bracket, Quick Start Guide, Light Pen II Software | |
| Power Consumption | <0.5W (powered from USB interface cable) | |
| Dimensions | 110(W) x 20(H) x 80(D)mm | |
| Weight | 0.8kg | |

| Interactive Functions | |
|--------------------------|---|
| Light emitted | Infrared |
| CMOS Camera | Built into adaptor |
| Power Requirement | Adaptor via USB connection, E-Pen - 2 x AAA Batteries, E-Wand - 2 x AA Batteries |
| E-Wand Extendable Length | 620 ~ 920 mm |

| System Requirements | | |
|--------------------------|---|--|
| OS Required | Microsoft, Windows 98/2000/XP/Vista/Macintosh | |
| Processor Type | Intel Pentium or above | |
| RAM Size | 128Mb (256Mb or above recommended) | |
| Minimum Hard Drive Space | 30Mb CD-Rom Driver & available USB 2.0 port | |





WI-VIEW300V: Projector-to-Wireless Converter

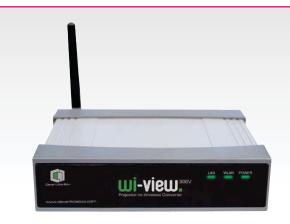
The Wi-View 300V VGA Wireless Converter is an easy-installation unit which converts your standard VGA projector (or VGA screen, etc) to a wire-free device, allowing users to easily connect via their PC/laptop's wireless LAN facility.

With plug-and-play of the Wi-View hardware to the projector and simple, secure access software from the PC/laptop; fast, easy and wirefree presentation in the classroom/conference room is immediately available.

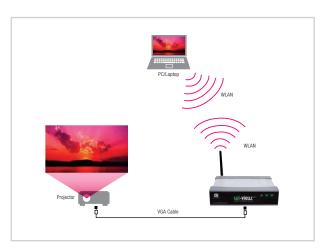
Supporting multi-user switching, any member of a conference/class can easily log into the Wi-View Server, switching their individual computer screen to the projector without moving computers or reconnecting cables.

Features:

- Fast, simple wireless presentation; no more cable swapping or trailing leads!
- Compatible with all projectors and screens featuring a VGA input
- Supports output resolution up to 1280x768 with 24 bit colour
- No installation CD required; software is directly downloaded from the Wi-View device
- Web-based user interface for easy configuration
- Conference control function, allowing host/chairperson to control multiple users during meetings
- Up to 128 (max) users in conference mode
- Also features standard Wireless LAN access point function



| - | |
|--|--|
| Model: | Wi-View300V |
| Wireless Standards | IEEE 802.11g |
| LAN Standards | IEEE 802.3u |
| Data Rate | Wireless: up to 54Mbps LAN: 10/100 Mbps with auto MDI/MDIX |
| Protocol | TCP/IP |
| IP Configuration | Automatic: DHCP Manual: static IP address |
| Security | IEEE Standard 64/128 bit WEP |
| Antenna | Detachable antenna with SMA connector |
| Transmission Power | 2dBi external dipole antenna |
| Receiving Sensitivity | – 65dBm @ 54Mbps – 80dBm @ 11Mbps at 10-5 BER |
| Wireless Link Coverage | Up to 300 feet/100m (dependant on environment) |
| Video Streaming | MPEG1/2/4, HD Video Support |
| Supported Video Format | MPEG1/MPEG2/MPEG4(DivX, Xvid)/WMV9 |
| Supported PC/NB Resolution Colour Depth | 16/32 bit colour depth |
| Supported PC/NB Resolution | SVGA (800x600), XGA (1024x768), WXGA (1280x768) |
| Supported Output Resolution | SVGA (800x600). XGA (1024x768), WXGA (1280x768) |
| Supported Operation System | Windows Vista/XP/2003/2000 |
| Power | 5v DC, 2.5A |
| Interfaces | 15-pin VGA, RJ-45, Power switch, Reset button, Stereo phono jack, Audio output |
| Dimensions | 117(W) x 27(H) x 140(D) mm |
| Weight | 0.28kg |



Projection Screens

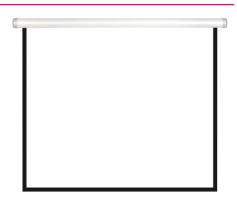
Features:

- Full 7 year warranty!
- Aesthetically pleasing aluminium extruded case
- Brackets (reversible) can be mounted anywhere along the case
- Quiet motor
- Compact tensioned
- Tabs are cut out of surface to prevent marking or coming off
- Flat tab-tensioned surface

Manual Projection Screens: Rollerwall

Fibre Glass Matt White Surface, housed in a new design white square steel case. Four mounting points on each endcap ensure the screen can be firmly fixed to the wall or ceiling.

New robust design, 3cm black borders to all sides, (4cm on 244cm wide screens). 25cm additional black leader on 16/9 and 16/10



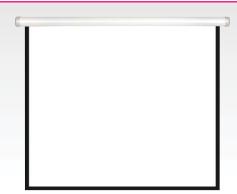
Model Dimensions:

| Model | Format | Diag | VA: cm |
|--------|--------|-----------|--------------|
| 105050 | 1/1 | 50" Diag | 127 x 127 cm |
| 106060 | 1/1 | 60" Diag | 152 x 152 cm |
| 107070 | 1/1 | 70" Diag | 180 x 180 cm |
| 108484 | 1/1 | 84" Diag | 213 x 213 cm |
| 109696 | 1/1 | 95" Diag | 244 x 244 cm |
| 1075D | 4/3 | 75" Diag | 152 x 114 cm |
| 1089D | 4/3 | 89" Diag | 180 x 135 cm |
| 10100D | 4/3 | 100" Diag | 203 x 152 cm |
| 10120D | 4/3 | 120" Diag | 244 x 183 cm |
| 1082D | 16/9 | 82" Diag | 180 x 101 cm |
| 1092D | 16/9 | 92" Diag | 203 x 114 cm |
| 10110D | 16/9 | 110" Diag | 244 x 137 cm |
| 1084D | 16/10 | 84" Diag | 180 x 113 cm |
| 1094D | 16/10 | 94" Diag | 203 x 127 cm |
| 10113D | 16/10 | 113" Diag | 244 x 153 cm |

Electric Projection Screens: Small - Non Tensioned, F-Type Electric c/w IR Control

This Mid Range Electric Screen with Fibre Glass Matt White Surface and a Tubular motor with limit switches, housed in a new design Matt White shaped steel case.

Sliding rear brackets with quick attach fixings assist easy fixed to the wall or ceiling. 3cm black borders to all sides, (4cm on 244cm wide screens). 25cm additional black leader on 16/9 and 16/10 formats. Supplied with IR control unit.



Model Dimensions:

| Model | Format | Diag | Overall size: cm |
|--------|--------|-----------|------------------|
| 5084D | 4/3 | 84" Diag | 171 x 128 cm |
| 50100D | 4/3 | 100" Diag | 203 x 152 cm |
| 50120D | 4/3 | 120" Diag | 244 x 183 cm |
| 50150D | 4/3 | 150" Diag | 305 x 229 cm |
| 5077D | 16/9 | 77" Diag | 171 x 96 cm |
| 5092D | 16/9 | 92" Diag | 203 x 114 cm |
| 50110D | 16/9 | 110" Diag | 244 x 137 cm |
| 50138D | 16/9 | 138" Diag | 305 x 172 cm |
| 5079D | 16/10 | 79" Diag | 180 x 101 cm |
| 5094D | 16/10 | 94" Diag | 203 x 114 cm |
| 50113D | 16/10 | 113" Diag | 244 x 137 cm |
| 50142D | 16/10 | 142" Diag | 305 x 191 cm |

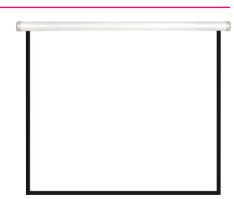


Electric Projection Screens: Small - Non Tensioned, Compact

High quality electric screen with quiet motor, ideal for small to medium rooms. Equipped with sliding brackets.

A wide choice of fabrics, standard is Matt White (Gain 1.2). Options for Lumi Grey, Cinesound and Rear Plus - call for pricing. 4/3, 16/10 versions come with 5cm black borders.

Custom sizes available.



Model Dimensions:

| Model | Format | VA: cm |
|----------------|--------|--------------|
| COM160X160 | 1/1 | 160 x 160 cm |
| COM180X180 | 1/1 | 180 x 180 cm |
| COM200X200 | 1/1 | 200 x 200 cm |
| COM250X250 | 1/1 | 250 x 250 cm |
| COM160X120/4BB | 4/3 | 160 x 120 cm |
| COM180X135/4BB | 4/3 | 180 x 135 cm |
| COM200X150/4BB | 4/3 | 200 x 150 cm |
| COM220X165/4BB | 4/3 | 220 x 165 cm |
| COM250X190/4BB | 4/3 | 250 x 190 cm |
| COM300X225/4BB | 4/3 | 300 x 225 cm |
| COM160X100/4BB | 16/10 | 160 x 100 cm |
| COM180X113/4BB | 16/10 | 180 x 113 cm |
| COM200X125/4BB | 16/10 | 200 x 125 cm |
| COM220X138/4BB | 16/10 | 220 x 138 cm |
| COM250X156/4BB | 16/10 | 250 x 156 cm |
| COM300X188/4BB | 16/10 | 300 x 188 cm |

For Lumi Grey surface add 5% to the trade price, for Rear Plus fabric add 10%, for Microperforated add 35%



Brackets









- TS-15R: 15" Touch Screen Display
- TS-17R: 17" Touch Screen Display

Stylish 15" and 17" touch screen displays with superb touch panel sensitivity and long-term durability built to last in demanding point-of-sale environments. The units provide durable touch screen functionality and feature highly accurate 5-wire resistive touch technology.

Their slim design demands less space than competing touch screen displays, and the VESA compliant design makes for easy mounting in a variety of environments.

Specially designed for use in point-of-sale systems, information kiosks, museum displays and other high-traffic public environments.

- · Scratch resistant touch panel
- 5-wire resistive touch technology
- · Sharp contrast ratio
- · High brightness
- Lifetime 30 million finger-touch hits
- Dual serial touch interface
- · Auto-adjustment for optimal settings
- Kensington security socket
- VESA compliant for wall/arm mounting





| Model: | TS-15R | TS-17R |
|--|---|--|
| Panel Type | TFT LCD | TFT LCD |
| Panel Size | 15.0" (381 mm) | 17.0" (432 mm) |
| Max. Resolution | XGA 1024 x 768 | SXGA 1280 x 1024 |
| Pixel Pitch | 0.297 mm | 0.264 mm |
| Brightness | 250 cd/m2 (Typical) | 300 cd/m2 (Typical) |
| Contrast Ratio | 700:1 (Typical) | 800:1 (Typical) |
| Surface Treatments | Hard Coating (3H), Anti-glare Treat | ment |
| Viewing Angle (H/V) | 130°/120° (Typical) | 160°/160° (Typical) |
| Display Colour | 16.2M | 16.2M |
| Response Time | 4ms (GTG) | 4ms (GTG) |
| Panel Life Time | 50,000hrs (Minimum) | 50,000hrs (Minimum) |
| Frequency (H/V) | H: 30kHz ~ 60 kHz V: 56Hz ~ 75Hz | H: 30kHz ~ 80kHz V: 56Hz ~ 75Hz |
| Max. Pixel Clock | 80MHz | 140MHz |
| Input: Touch Interface Analogue Digital | 8-Pin Mini Dim 15-Pin D-Sub - | 8-Pin Mini Dim 15-Pin D-Sub 24-Pin DVI-D |
| Power: AC-DC Adaptor Power Consumption | External AC 100 ~ 240v, 50 ~ 60Hz < 36W (0n) < 2W (Stand-by) < 1W (0ff) | External AC 100 - 240v, 50 ~ 60Hz < 42W (On) < 2W (Stand-by) < 1W (Off) |
| Touch Screen: Technology Optical Transmission Positional Accuracy Panel Resolution Active Force Panel Interface Glass Thickness Life Performance | 5-wire Resistive > 80% < 2% of true position 1024 x 1024 5.1 ~ 8.16 gw Dual RS-232/USB interface 0.0787/2.0 mm 35million touches at single point | 5-wire Resistive > 80% < 1% Deviation Error 1024 x 1024 < 300g Dual RS-232/USB interface 2.1 mm 35 million hits (finger) |
| Plug & Play: VESA | DCC 2B | DCC 2B ; DCC/Cl |
| Operating Conditions: Temperature Humidity | 0 °C ~ 40 °C 10% ~ 90% | 0 °C ~ 40 °C 10% ~ 90% |
| Storage Conditions: Temperature Humidity | -20 °C ~ 60 °C 5% ~ 95% | -20 °C ~ 60 °C 5% ~ 95% |
| Mounting: VESA FPMPMI | Yes (100 mm) | Yes (100 mm) |
| Tilt | $5^{\circ} \sim 25^{\circ}$ (+10° when bracket ho | oked) |
| Dimensions: | 386(W) x 360(H) x 169(D) mm | 436(W) x 427(H) x 200(D) mm |
| Product Weight | 4.6kg | 7.5kg |
| Accessories Supplied | Quick Guide, CD ROM (user manual and touch screen drivers), 15-Pin D-Sub cable, power cord, power adaptor, RS-232 cable and USB cable | Ouick Guide, CD ROM (user manual and drivers), 15-Pin D-Sub cable, 24-Pin DVI-D cable, AC power cord, power adaptor RS-232 cable and USB cable, support bracket |











• DI705M: SmartPad 7" Android Tablet

Our latest entry to the exploding MID Market (moble internet devices), our new 'SmartPad' is an ultra-compact 7" interactive tablet built around the Google Android operating system.

Combining sleek, compact styling with powerful mobile media and internet computing, this 'go-anywhere' device is ideal for wire-free, mobile AV control, interactive teaching & learning or simply for personal work and play.

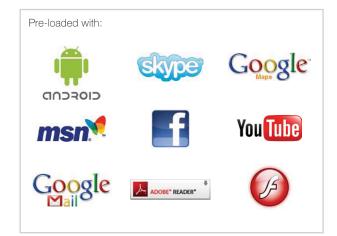
Packed with a whole host of high-end features; including bright, responsive 7" touchscreen, WiFi, webcam, 2Gb internal memory + SD card expansion, HDMI & HD support and internal loudspeakers - plus access to thousands of AV control, education, business and entertainment applications; the new MediaTouch gives you a whole lot more Tablet for a whole lot less money!

Features:

- Android 2.1 800MHz ARM11
- 7.0" 800 x 480 4:3 touch screen
- 512M DDR2 RAM
- 2Gb memory built-in, micro SD card expandable up to 32Gb
- Wi-Fi, HDMI, Webcam, TV-OUT, vibrate motor, remote controller
- HOST port for 3G dongle, USB flash drive, keyboard, mouse, GPS, etc external device connection
- Full HD 1080P supports MPEG-2, MPEG-4, AVS, H.264, WMV, AVI, MP4, RMVB, FLV, MKV
- Ebook support PDF, EPUB, TXT, HTM, HTML, RTF
- G-sensor
- 3400mAH polymer rechargeable battery for 6hrs use
- Music, movies, G-mail, e-mail, MSN, Skype, Facebook, Adobe Reader, FB Reader, Google Maps, YouTube, Flash
- 3 x 1W, 7Ω speakers
- 3.5mm earphone jack
- 5 Pin USB port
- 5v DC In
- Brushed Aluminium casing









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| Glasses-free 3D LCD Screens | 232 ~ 233 |
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| Multi-Screen Video Walls | 235 |











• Luminis AiO: All-in-One Digital Signage

Clever Little Box's latest generation Luminis AiO is the all-in-one solution for creating and running your own unique on-screen digital channel for enhancing communications and delivering eye-catching information.

Luminis AiO is straight out of the box and ready to use. It supports all Windows media file formats and allows you to create your own on-screen messages or play back web-based content.

Luminis AiO can be operated stand alone or can be configured in a network as 'Server' or 'Client' (same model configurable) networked and controlled remotely. Up to 100 Luminis 'client' players can be connected to your network.

Luminis Rio. Endera Datal Service Convertisian dan.

Features:

- Latest generation high efficiency, low power consumption media player
- Fast and easy installation; up and running in minutes
- All-in-one plug and play solution
- Stand-alone or fully networked
- Simple and intuitive user interface
- Control locally or via web browser
- Use pre-designed display templates
- Design your own display templates
- Landscape & portrait display options

Play Back:

- Rich Site Summary (web feed)
- Still and moving images
- Video
- Flash animation
- Tickertape messages
- Powerpoint
- Web pages
- 5.1 audio playback
- Optional live TV feeds (Part No. USBTV)



Create, amend and control your own digital signage templates, content and schedules with Luminis AiO...

| Model: | Luminis AiO |
|--------------------|--|
| CPU | Intel Core 2 Duo, T3400 |
| Chipset | Intel GM45 + ICH9M |
| Memory | 200pin DDRII So-DIMM, 1Gb |
| Graphics | Intel GMA X4500MHD, HDMI Port x 1, D-Sub VGA Port x 2 |
| Controller | Max Shared Video Memory is 512Mb |
| LAN | Intel Gigabit Ethernet 10/100/1000 |
| Audio | Realtek ALC662 HD Audio CODEC on-board, stereo CH 5.1 with HDMI |
| Storage | SATA 2.5" HDD 160Gb |
| External I/O | 2 x VGA Ports 4 x USB 2.0 Ports 1 x RS232 Port 1 x HDMI Port 2 x Audio connectors 1 x Audio Set Live Out 1 x Audio Set Mic-in 1 x Upgrade for Antenna Port |
| Power Requirements | Auto-ranging 110 \sim 240v , 4 \sim 2A , 60 \sim 50Hz, with IEC320 power inlet |
| Dimensions | 166(W) x 48(H) x 157(D) mm |
| Weight | 1.22kg |





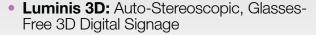












Using the same Windows-based digital signage platform as our 2D 'Luminis AiO', Luminis 3D combines all the functionality and ease of use of 'standard' digital signage with state-of-the-art lenticular screen technology, to provide what are the most truly 'outstanding' signage results you can imagine!!

Luminis 3D can be operated as a stand-alone unit, or can be configured in a network as 'Server' or 'Client' (same Model configurable). Individual Client units in stand-alone mode can be controlled directly or on the local network via a web interface. Alternatively, if a number of units are networked, they can be controlled and updated over a wide area network

Featuring fully-controllable templates and schedules, the Luminis signage platform supports a combination of both 3D and 2D media content, supporting video, Flash, RSS, streamed images, web pages, PowerPoint, tickertape, plus much more!

Adopting lenticular screen technology provides the only true solution to glasses-free 3D – essential, of course, for public signage where there is no control over the audience (and certainly no chance to hand-out free spectacles to every passer-by!)

As digital signage becomes the 'norm', the ability to catch an audience's attention and literally stop them in their tracks is the ultimate goal; Luminis 3D delivers.

Features:

- Outstanding glasses-free 3D system
- Windows platform, supporting all standard Windows media files
- Fast and easy installation; up and running in minutes
- · All-in-one, plug and play solution
- Simple and intuitive browser-based user interface
- · Control and update locally or remotely via web browser
- Pre-designed and self-configured display templates
- 'Unlimited' number of media/content channels
- Fully-programmable scheduling
- Configurable user permissions

Supported 2D content:

- Flash
- JPEG/BMP/GIF stills and slideshows
- MPEG/AVI video
- html/web pages
- PowerPoint
- Rich Site Summary (RSS feed)
- Optional live TV feeds (Part No. USBTV)
- ...plus 5.1 audio playback

Supported 3D content:

- 3D Studio Max*
- MAYA*
- Live-action filmed in 3D*

(*requires processing to auto-stereoscopic format via 'Mixture' software application)

See page 232 ~ 233 for details of the **Magnetic 3D** Range of glasses-free Auto-Stereoscopic 3D LCD Screens.



Specifications:

| Model: | Luminis 3D |
|--------------------------|---|
| Mother board | BIOSTAR TA780G M2+ |
| CPU | AMD Socket AM2 Athlon 64 x 2, 4400+ (2.3GHz) |
| Chipset | AMD 780G |
| Memory | 2048Mb Corsair DDR2 800MHz 4 x DDR2 DIMM Memory Slot Max. Supports up to 4GB Memory |
| Graphics Controller | GeForce 9600GT GPU with DDR3 512MB |
| LAN | Realtek 8168C/8111C on-chip, supporting 1000/100/10M bps |
| Audio | ATI 791A. Realtek High Definition Audio |
| Storage | 1 x 120GB 3½" SATA II hard disk drive |
| External I/O | 1 x PS/2 Mouse, 1 x PS/2 Keyboard 1 x Standard VGA Port 4 x USB 2.0 ports 1 x RS232 port 1 x DVI port 3 x Audio connectors 1 x RJ-45 10/100/1Gb Base-T Ethernet LAN connector |
| Watchdog | 1 x Hardware watchdog |
| Indicators | Power On switch and indicator |
| System Management | CPU temperature monitoring, system temperature monitoring, and voltage monitoring of Vcore, +3.3v, +5v, +12v, -12v are all available to the application for monitoring and reporting. |
| Power Requirements | 230v AC with IEC320 power inlet. |
| Environmental Conditions | Operating temperature range $+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ in free air Shock and vibration compatible with light industrial usage. |
| Dimensions | 360(W) x 45(H) x 240(D) mm |
| Weight | 3.5kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075





ENABL3D: Auto-Stereoscopic, Glasses-Free, 3D LCD Screens

The new Enabl3D range from Magnetic represents the cutting edge of 'glasses-free' 3D screen technology.

Using the latest generation of auto-stereoscopic (or 'lenticular') LCD technology, Magnetic Enabl3D screens allow incredible resolution and outstanding 3D large format displays without the need for any special glasses, eyewear, headgear or projectors.

Providing the ultimate in eye-catching, crowd-stopping displays, media and digital signage; video images and content appear to fly out of the screen and float in mid air!

The effect truly has to be seen to be believed.

The Magnetic 3D proprietary overlay and industry-leading 3D render software combine to deliver truly stunning visual effects - all without the need for viewers to wear 3D glasses...

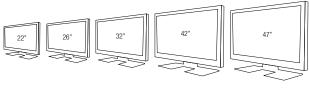
Features:

- Glasses-free 3D screen technology
- Autostereoscopic, Full-HD 1080p LCD screens
- 9-point multi-viewing 3D zones
- 176° ultra-wide viewing angle
- 50,000 hours viewing time
- Durable and discreet design and build
- IRFM technology helps prevent 'screen burn'
- Configurable Inputs/Outputs
- Active ambient light sensor for energy saving control



| Part Number: | Screen sizes: |
|--------------|---|
| 22Enable3D | 22" 3D Stereoscopic Enabled Display Screen |
| 26Enable3D | 26" 3D Stereoscopic Enabled Display Screen |
| 32Enable3D | 32" 3D Stereoscopic Enabled Display Screen |
| 42Enable3D | 42" 3D Stereoscopic Enabled Display Screen |
| 42Enable3D0F | 42" 3D Stereoscopic Enabled open-frame Display Screen |
| 47Enable3D | 47" 3D Stereoscopic Enabled Display Screen |
| 55Enable3D | 55" 3D Stereoscopic Enabled Display Screen |
| 57Enable3D | 57" 3D Stereoscopic Enabled Display Screen |
| | |

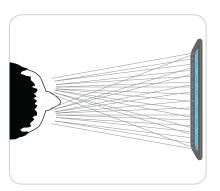






How does 3D Auto-stereoscopic screen technology work?..

Also known as 'lenticular', this glasses-free system is regarded as the ideal long-term 3D solution. A sheet of transparent, cylindrical lenses (known as 'lenticules') is fixed to a professional-grade, high definition LCD screen. These lenticules reflect light in specific, duplex acute angles to generate different images to each eye.







• ENABL3D: (contd)

Specifications:

| Model: | 22Enabl3D | 26Enabl3D | 32Enabl3D | 42Enabl3D0F |
|-------------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------------|
| 3D Viewing Angle (Left/Right) | 50°/50° | 50°/50° | 50°/50° | 50°/50° |
| 2D Viewing Angle | 170°/160° | 176°/176° | 176°/176° | 176°/176° |
| Brightness | 280 nits | 350 cd/m ² | 450 cd/m ² | 660 cd/m ² |
| Contrast Ratio | 1000:1 | 1500:1 | 3000:1 | 4000:1 |
| Response Time | 5ms | 8ms | 6.5ms | 6.5ms |
| Supported Colours | TBD | 16.7M colours | 16.7M colours | 16.7M colours |
| Horizontal/Vertical Frequency | 30 ~ 82kHz, 50 ~ 75kHz | 30 ~ 80kHz, 56 ~ 75kHz | 35 ~ 65kHz, 56 ~ 75kHz | 30 ~ 80kHz, 56 ~ 75kHz |
| Input/Output Connectors | VGA/DVI | DVI/VGA/Component/ AV/S-video | DVI/VGA/Component/ AV/S-video | DVI/VGA/Component/ AV/S-video |
| Mount Type | 100 x 100mm VESA | 200 x 200mm VESA | 200 x 200mm VESA | |
| Power Supply | 12v DC | 230v AC | 230v AC | 230v AC |
| Normal Operation Power | <50W | <168W | <168W | <230W |
| Source Auto Detect | | Yes | Yes | Yes |
| Operating Temperature | 5° ~ 40°C | 5° ~ 40°C | 5° ~ 40°C | 5° ~ 40°C |
| Display Diagonal | 22" | 26" | 32" | 42" |
| Optimum Viewing Distance | 1.2 ~ 3 m | 1.8 ~ 3.7 m | 1.8 ~ 3.7 m | 2.4 ~ 6 m |
| Perceived 3D Depth | 0.3 m | 0.45 m | 0.5 m | 0.6 m |
| Aspect Ratio | 16:9 | 16:9 | 16:9 | 16:9 |
| Display Resolution (WXGA) | 1680 x 1050 | 1920 x 1200 | 1366 x 768 | 1920 x 1080 |
| Dimensions (W x H x D) | 503(W) x 418(H) x 240(D) mm | 608(W) x 440(H) x 161(D) mm | 793(W) x 483(H) x 94(D) mm | 1018(W) x 610(H) x 124(D) mm |
| Weight | 7.8kg | 9kg | 14kg | 28kg |





Additional Specifications:

| Model: | 42Enabl3D | 22Enabl3D | 26Enabl3D | 32Enabl3D |
|-------------------------------|-----------------------------------|------------------------------|----------------------------------|----------------------------------|
| 3D Viewing Angle (Left/Right) | 50°/50° | 50°/50° | 50°/50° | 50°/50° |
| 2D Viewing Angle | 176°/176° | 170°/160° | 176°/176° | 176°/176° |
| Brightness | 661 cd/m ² | 280 nits | 350 cd/m ² | 450 cd/m ² |
| Contrast Ratio | 4000:1 | 1000:1 | 1500:1 | 3000:1 |
| Response Time | 6.5ms | 5ms | 8ms | 6.5ms |
| Supported Colours | 16.7M colours | TBD | 16.7M colours | 16.7M colours |
| Horizontal/Vertical Frequency | 30 ~ 80kHz, 56 ~ 75kHz | 30 ~ 82kHz, 50 ~ 75KHz | 30 ~ 80kHz, 56 ~ 75kHz | 35 ~ 65kHz, 56 ~ 75kHz |
| Input/Output Connectors | DVI/VGA/Component / AV/S-video | VGA/DVI | DVI/VGA/Component/ AV/S-video | DVI/VGA/Component/ AV/S-video |
| Mount Type | 200 x 200mm VESA | 100 x 100mm VESA | 200 x 200mm VESA | 200 x 200mm VESA |
| Power Supply | 230v AC | 12v DC | 230v AC | 230v AC |
| Normal Operation Power | <230W | <50W | <168W | <168W |
| Source Auto Detect | Yes | | Yes | Yes |
| Operating Temperature | 5° ~ 40°C | 5° ~ 40°C | 5° ~ 40°C | 5° ~ 40°C |
| Display Diagonal | 42" | 47" | 55" | 57" |
| Optimum Viewing Distance | 3 ~ 6 m | 3.7 ~ 7.3 m | 4 ~ 7.8 m | 4.8 ~ 8.5 m |
| Perceived 3D Depth | 0.6 m | 0.7 metres | 0.8 metres | 0.98 metres |
| Aspect Ratio | 16:9 | 16:9 | 16:9 | 16:9 |
| Display Resolution (WXGA) | 1920 x 1080 | 1920 x 1080 | 1920 x 1079 | 1920 x 1080 |
| Dimensions (W x H x D) | 1022(W) x 615(H) x 124(D) mm | 1136(W) x 686(H) x 126(D) mm | 1265(W) x 835(H) x 135(D) mm | 1358(W) x 793(H) x 154(D) mm |
| Weight | 30kg | 40kg | 55kg | 136kg |







Aneovo

RX-W42: 42" Widescreen Full HD Display Screen

A full HD, full-featured 42" display protected by NeoV^M Optical Glass and Anti-Burn-in^M technology.

With a feature list as big as its 42" screen, the RX-W42 brings the ideal combination of size and specs to the professional AV environment. Review highly-detailed, smooth and accurate images on a bright Full HD display with AG Neovo's Advanced Image Platfom™. Save costs and time by taking advantage of multiple video inputs and convenient Picture-in-Picture (PIP) options.

And thanks to protective NeoV[™] Optical Glass, Anti-Burn-in[™] technology, long-life screen and a durable metal frame, this display will be performing for years to come.

Features:

- 1920 x 1080 Full HD resolution
- 4000:1 contrast ratio
- NeoV™ Optical Glass
- Anti-Burn-in™ technology
- Smart Omni Viewer: PIP, PBP & VOV functions
- Built-in Image enhancer: 3D Comb Filter/Deinterlace/Noise Reduction
- Multiple video inputs (BNC in x 2, BNC out x 2)
- RS-232 for individual and multi-display control
- Horizontal resolution up to 630TVL (NTSC), 650TVL (PAL)
- Built-in HDCP allows HD-format video
- Power DC-out design to power connected peripherals
- Selectable aspect ratio for ultimate image: Native, Overscan, Underscan
- NTSC/PAL/SECAM video system support
- Quick signal-switching time (≤0.8 sec)
- IR remote control
- Durable metal housing
- VESA standard wall mount
- Rigorous screening of the components for mission-critical 24/7 applications



NeoV™ Optical Glass protects against scratches, impacts and other physical damage



Viewing versatility with Picture-in-Picture (PIP), Picture-by-Picture (PBP) and Video-on-Video (VOV)



Anti-Burn-in™ technology prevents image sticking



Durable metal casing for enhanced strength and secure

| Model: | RX-W42 |
|--|--|
| Panel - Panel Type Panel Size Max. Resolution Pixel Pitch Brightness Contrast Ratio Viewing Angle (H/V) Display Colour Response Time | TFT LCD 42.0" (1067mm) FHD 1920 x1080 0.48455mm 450 cd/m² (Typical) 4000:1 (Typical) 178°(H), 178°(v) (Typical) 16.7M 6.5ms (GTG) |
| Horizontal resolution - TV Lines | 630TVL (NTSC), 650TVL (PAL) |
| Frequency (H/V) | H: 24 ~ 82 kHz, V: 50 ~ 85 Hz |
| Input - VGA DVI CVBS S-Video Component(Y PbPr) | 15-Pin D-Sub 24-Pin DVI-D BNC x 2 4-Pin mini DIN RCA x 2 |
| Output - CVBS S-Video | BNC x 2 4-Pin mini DIN |
| Audio - Audio In Audio Out Speaker | 1 x stereo audio in for PC (3.50), 1 x stereo audio in for CVBS (RCA), 1 x stereo audio in for S-Video (RCA), 2 x stereo audio in for YPbPr (RCA) 1 x stereo audio out for CVBS (RCA) 2W x 2 |
| Power - DC Output Power Consumption | 12v, 350 mA, DC jack 2.50/ 100 ~ 240v, 50 ~ 60 Hz < (165) W (0n), < (10) W (0ff) |
| NeoV™ Optical Glass - Thickness Reflection Rate Transmission Rate Coating Hardness | 3.0mm (0.12") <1% >96% >9H |
| Operating Conditions - Temperature Humidity | 0 °C ~ 40 °C 10% ~ 85% |
| Mounting - VESA FPMPMI | Yes (600 x 400 mm, 400 x 200 mm) |
| Dimensions - w/o base w/ base | 1011(W) x 604(H) x 106(D) mm 1011(W) x 667(H) x 190(D) mm |
| Weight - w/o base w/ base | 27.0 kg 28.4 kg |
| Accessories | User manual, 15-Pin VGA cable, 24-Pin DVI cable, power cord, audio cable, IR remote control |











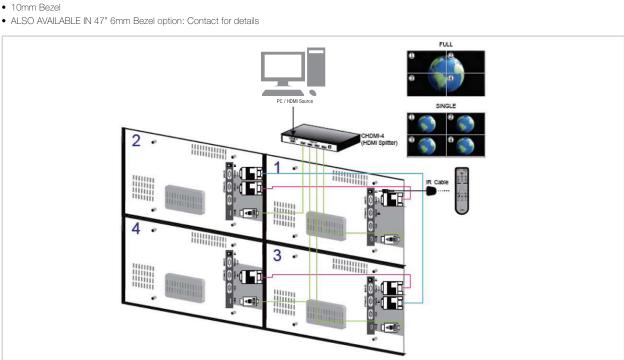
- DS-42A22: 2 x 2 Multi-Screen Video Wall System
- DS-42A33: 3 x 3 Multi-Screen Video Wall System
- DS-42A44: 4 x 4 Multi-Screen Video Wall System
- DS-42A55: 5 x 5 Multi-Screen Video Wall System
- DS-MSC: Multi-Screen Controller

Flexibility is the key to the CYP Digital Signage Solutions. There are three standard packages which provide a complete system solution for many commercial applications. The packages include a Single 42" screen option, 2x2, 3x3, 4x4 and a 5X5 complete digital signage system.

All CYP screen packages include built-in control modules and use the latest LED technology with screens operating at full HD resolutions of 1920 x 1080P, with bi-directional RS-232 control functionality enabled.

All package solutions are supplied with a full mounting system to enable the installer to secure the system to any wall or display area.

- Supports 4-Screen (2 x 2), 9-Screen (3 x 3), or 16-Screen (4 x 4), or 25screen (5 x 5) video wall panel combinations
- Supports Full HD 1920 x 1080 resolution LCD panels
- Full two-way RS-232 Control
- Horizontal or Vertical Screen Orientation (both Mounting Kits available)
- Single Image or Independent Split Screen Images
- Independent Controller available for integration with third-party Screens



Specifications:

DS-MSC (Multi-Screen Controller)

For use with third party screens to emulate a video wall. This controller will control the digital signage content for each screen on a video wall system using up to 16 screens. One controller is required per screen. If the user has only one HDMI or VGA source, then an appropriate Distribution Amplifier will be required to split the source signal to each of the Muilt-Screen Controllers

DS-42A22

- 2 x 2 Video Wall System 4 x 42" 1080P LCD Screens
- (with HDMI & VGA Connections) 4 x Wallmount Kit
- 1 x 4-way splitter
- 1 x IR remote and cable

DS-42A33

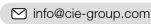
- 3 x 3 Video Wall System 9 x 42" 1080P LCD Screens
- (with HDMI & VGA Connections) 9 x Wallmount Kit
- 1 x 10-way splitter
- 1 x IR remote and cable

DS-42A44

- 4 x 4 Video Wall System 16 x 42" 1080P LCD Screens (with HDMI & VGA Connections)
- 16 x Wallmount Kit
- 1 x 16-way splitter
- 1 x IR remote and cable

DS-42A55

- 5 x 5 Video Wall System 25 x 42" 1080P LCD Screens (with HDMI & VGA Connections)
- 25 x Wallmount Kit
- 2 x 16-way splitter 1 x IR remote and cable

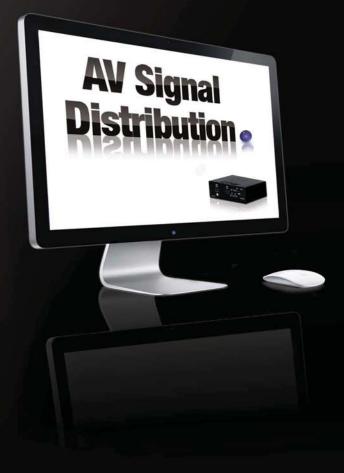


Stunning 3D Ready High Definition watch any source on any screen



The OR-HD88S is the ultimate in HDMI matrix solutions for displaying any of the 8 input sources to any comination of, up to, 8 connected HD displays. This super reliable, robust solution supports 3D signals, 'Deep Colour' and High Definition Audio whilst also giving the ability to extend the HDMI signal for longer transmission lengths. A true installers choice where unbeaten quality and value are paramount.





| TIDIVII SWITCHEIS | 200 ~ 249 |
|--|-----------|
| HDMI Matrix Switchers | 250 ~ 257 |
| HDMI Distribution Amplifiers | 258 ~ 268 |
| HDMI over Cat-X Extender Kits | 269 ~ 284 |
| HDMI over Fibre Extender Kit | 285 |
| VGA Splitters | 286 |
| VGA Switches | 287 ~ 288 |
| VGA over Cat-X Extender Kits | 289 ~ 293 |
| DVI over Fiber Extender Kits | 295 ~ 296 |
| Audio Signal Splitters/Amplifiers/Processors | 297 ~ 313 |
| Component Splitters/Amplifiers/Processors | 314 ~ 315 |
| AV Signal Converters Scalers | 316 ~ 341 |
| Composite Video Splitter Amplifiers | 342 ~ 343 |
| Composite Video Matrix | 344 |





- SP-H00102-0B: 2 Port HDMI Splitter
- SP-H00104-0B: 4 Port HDMI Splitter
- SP-H00108-0B: 8 Port HDMI Splitter

Our HDMI Splitter Series provides a simple, high performance solution to broadcast a single HDMI source to 2, 4 or 8 output displays, therefore providing multiple displays of a single HDMI source such as Blu-ray player, HD TV, PS3, etc.

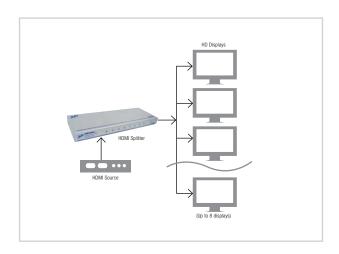
Features:

- Conforms to HDMI 1.3 specifications
- Fully HDCP 1.1 compliant
- 2, 4 or 8 HDMI display outputs from 1 HD source
- Maximum broadcast distance of 30 metres









| Model: | SP-H00102-0B | SP-H00104-0B | SP-H00108-0B |
|------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Description | 2 port HDMI Splitter | 4 port HDMI Splitter | 8 port HDMI Splitter |
| Video Support | 480i/720i/480p/720p/ 1080i/1080p | 480i/720i/480p/720p/ 1080i/1080p | 480i/720i/480p/720p/ 1080i/1080p |
| Transmission | Full HD (1080p) ~ 30m | Full HD (1080p) ~ 30m | Full HD (1080p) ~ 30m |
| EDID Emulation | Yes | Yes | Yes |
| Input | HDMI x 1 | HDMI x 1 | HDMI x 1 |
| Output | HDMI x 2 | HDMI x 4 | HDMI x 8 |
| HDMI Connector | HDMI Type A (19-pin female) | HDMI Type A (19-pin female) | HDMI Type A (19-pin female) |
| Display LED | 2 | 4 | 8 |
| Power Supply | 5v / 1A DC | 5v / 2.6A DC | 5v / 2.6A DC |
| Maximum Cable Distance | 30m | 30m | 30m |
| Dimensions | 23(H) x 149(W) x 64(D) mm | 23(H) x 149(W) x 64(D) mm | 32(H) x 336(W) x 122(D) mm |





• SW-H00401-0B: 4 In/1 Out HDMI Switcher

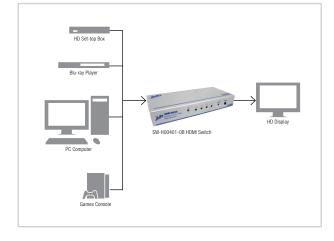
Featuring four HDMI inputs to a single HDMI output, this unit provides fast and effective switching of up to four high definition video/audio sources such as Blu-ray players, games consoles, cable TV, HD and DVD signals.

Features:

- Conforms to HDMI 1.3 specifications
- Fully HDCP 1.1 compliant
- Compatible with all HDMI-equipped devices and HDCP-enabled HDTV devices
- Push button or remote switching of HDMI device ports
- Maximum signal transfer distance of 30 metres
- Ideal for home theatre, conference room and retail display applications







| Model: | SW-H00401-0B |
|------------------------|---------------------------------|
| Description | 4 port HDMI Switch |
| Source Inputs | HDMI x 4 |
| Extension Output | HDMI x 1 |
| Display | 4 x Input Device LED, 1 x Power |
| EDID Emulation | Yes |
| Power Supply | 5v DC, 2.6A |
| Operating Temperatures | 0 ~ 50°C |
| Housing | Metal |
| Dimensions | 23(H) x 149(W) x 64(D) mm |
| Weight | 0.28kg |





• EL-21SY: v1.3 HDMI 2-Way Switcher

The EL-21SY is a high performance HDMI switcher. It allows two HDMI sources to share one HDTV display.

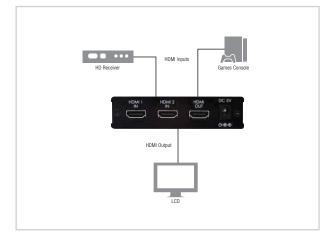
Simply press the button to select your desired HDMI source to display on your HD display.

For vI.3 HDMI specified equipment, the EL-21SY will auto-switch when the sources are turned on/off.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 2-way Switcher
- Resolutions Supported:
- PC VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200) HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- Auto-switch design
- Supports 'Deep Colour' (10, 12, & 16 bit)
- 3D Ready





| • | |
|------------|---|
| Model: | EL-21SY |
| Input | 2 x HDMI |
| Output | 1 x HDMI |
| Power | 5V/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 101(W) x 25(H) x 92(D) mm |
| Weight | 0.38kg |







EL-31SY: v1.3 HDMI 3-Way Switcher

The EL-31SY is a high performance HDMI switcher with IR control. It allows the connection of up to three HDMI sources to a single HDMI input a HDTV.

A simple remote control selects your required HDMI source for display on the HDTV.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 3-way Switcher
- Resolutions Supported:
- PC VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200) HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- IR Remote Control
- Supports 'Deep Colour' (10, 12 & 16 bit)
- 3D Ready



HDMI Output

| Model: | EL-31SY |
|------------|---|
| Input | 3 x HDMI |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 200(W) x 32(H) x 105(D) mm |
| Weight | 0.42kg |





The EL-41SY is a high performance HDMI switcher with IR control. It allows connectivity of up to four HDMI sources to a single HDMI issued as a LIDTY. input on a HDTV.

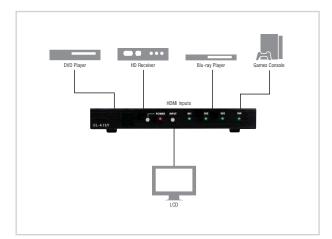
A simple remote control selects your required HDMI source for display on the HDVT.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4-way Switcher
- Resolutions Supported:

 - PC VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200) HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- IR Remote Control
- Supports 'Deep Colour' (10, 12 & 16 bit)
- 3D Ready





| • | |
|------------|---|
| Model: | EL-41SY |
| Input | 4 x HDMI |
| Output | 1 x HDMI |
| Power | 5v DC/2.6A (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 201(W) x 25(H) x 104(D) mm |
| Weight | 0.42kg |







EL-41AT: v1.3 HDMI & Digital Audio 4-way Switcher

The EL-41AT is a high performance v1.3 HDMI switcher with separate digital audio input and output. It allows your various HDMI sources to share one HDTV display.

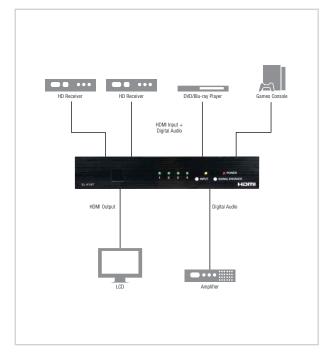
Simply by pressing one button you can select your desired HDMI source for display on the HDVT, meanwhile the selected digital audio will be passed through the Optical (Toslink) or Coaxial output to play on your audio amplifier.

1 2 1 4 SONAL ENHANCE HDMI

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI & Digital Audio 4-way Switcher

- Resolutions Supported:
 PC VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200)
 HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long
- IR Remote Control
- Supports 'Deep Colour' (10, 12 & 16 bit)
- 3D Ready



| Model: | EL-41AT |
|------------|--|
| Input | 4 x HDMI, 4 x Coaxial (RCA), 4 x Optical (Toslink) |
| Output | 1 HDMI, 1 x Coaxial (RCA), 1 x Optical (Toslink) |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 240(W) x 50(H) x 110(D) mm |
| Weight | 0.64kg |









• EL-41WAD: v1.3 HDMI 4-to-1 Mountable Switcher

The EL-41WAD is a high performance v1.3 HDMI switcher.

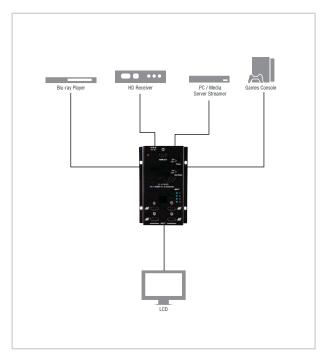
Featuring 4 HDMI inputs to 1 output, the switcher is designed for wall-mounting and includes system reset function which will reset the display every 10 minutes to a designated source.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4-to-1 Mountable Switcher

- Resolutions Supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- IR remote control
- Supports 'Deep Colour' (10 & 12 bit)
- Supports xvYCC and CEC Bypass
- 3D Ready





| Model: | EL-41WAD |
|------------|---|
| Input | 4 x HDMI |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 93(W) x 31(H) x 148(D) mm |
| Weight | 0.42kg |











The EL-42S switcher is compatible with v1.3 HDMI specifications, supporting up to 12 bit Deep Colour together with High Definition

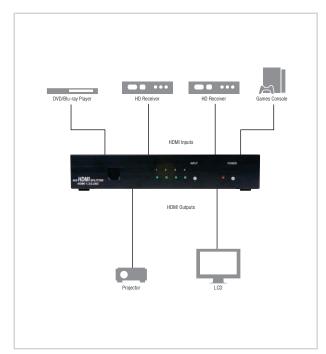
This switcher features additional analogue audio inputs for each of the four HDMI inputs. It has dual HDMI output which can be separately configured for audio routing, either internal (HDMI audio) or external (analogue stereo audio).



Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4 Way Switcher with 2 Identical Outputs

- Resolutions Supported:
 PC VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200)
 HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS-232 & IR Remote Control
- Supports 'Deep Colour' (10, 12 & 16 bit)
- 3D Ready



| Model: | EL-42S |
|------------|---|
| Input | 4 x HDMI |
| Output | 2 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 240(W) x 50(H) x 104(D) mm |
| Weight | 0.6kg |













• EL-42SA: v1.3 HDMI 4 by 2 Switcher with Analogue Audio Routing

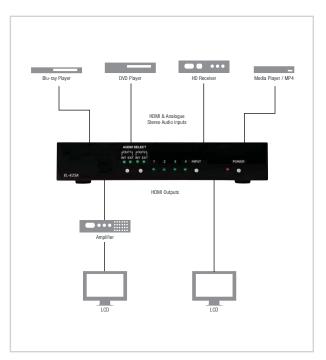
v1.3 HDMl 4 by 2 Switcher with analogue audio routing, the EL-42SA switcher is compatible to v1.3 HDMl specifications, supporting up to 12 bit Deep Colour together with High Definition

This switcher features additional analogue audio inputs for each of the four HDMI inputs. It has dual HDMI output which can be separately configured for audio routing, either internal (HDMI audio) or external (analogue stereo audio).



Features:

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- HDMI 4 Way Switcher with 2 Identical Outputs and audio routing
- Resolutions Supported:
 PC VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200)
 HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS232 & IR Remote Control. Supports 'Deep Colour' (10 & 12 bit)
- Additional analogue stereo audio inputs for routing to HDMI outputs
- Dual HDMI outputs for simultanious connection to two HD Displays
- Supports 3D signals



| Model: | EL-42SA |
|------------|---|
| Input | 4 x HDMI, 8 x RCA (4 x Analogue Stereo) |
| Output | 2 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 240(W) x 50(H) x 104(D) mm |
| Weight | 1.08kg |











This is a high performance HDMI switcher which provides for various HDMI sources to share one HDTV display with CEC control functions of auto-off and auto-switch. It also support deep colour and xvYCC with RS-232 control.

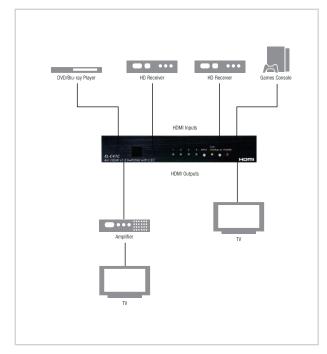
Simply press one button to select your desired HDMI source for display on the HDTV or use the remote control to access your sources remotely.



Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4-Way Switcher with CEC Control

- Resolutions Supported:
 PC VGA, SVGA, XGA, SXGA, UXGA
 HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS-232 & IR Remote Control
- CEC Auto switch control function
- Supports 'Deep Colour' (10 & 12 bit)
- 3D Ready



| - 1 | Model: | EL-C41C |
|-----|------------|---|
| - | Input | 4 x HDMI, 1 x RS-232 |
| (| Output | 1 x HDMI |
| | Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| - | Dimensions | 240(W) x 50(H) x 110(D) mm |
| - | Weight | 0.5kg |









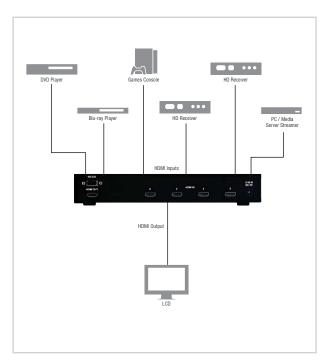
EL-C61C: v1.3 HDMI 6-Way Switcher with CEC

This is a high performance HDMI switcher which provides up to 6 HDMI sources to share one HDTV display with CEC control functions of auto-off and auto-switch. It also support deep colour and xxYCC with RS-232 control.

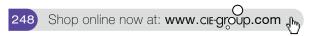
Simply press one button to select your desired HDMI source for display on the HDTV or use remote control to control your sources $\,$ in distant.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 6-Way Switcher with Consumer Electronics Control (CEC)
- Resolutions Supported:
 PC VGA, SVGA, XGA, SXGA, UXGA
 HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS-232 & IR Remote Control
- CEC Auto switch control function
- Supports 'Deep Colour' (10 & 12 bit)
- 3D Ready



| • | |
|------------|---|
| Model: | EL-C61C |
| Input | 6 x HDMI, 1 x RS-232 |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 240(W) x 50(H) x 110(D) mm |
| Weight | 0.54kg |











EL-C81C: v1.3 HDMI 8-Way Switcher with CEC

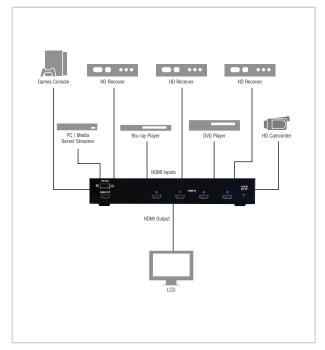
This is a high performance HDMI switcher which provides up to 8 HDMI sources to share one HDTV display with CEC control functions of auto-off and auto-switch. It also support deep colour and xxYCC with RS-232 control.

Simply press one button to select your desired HDMI source for display on the HDTV or use remote control to control your sources in distant.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 8-Way Switcher with Consumer Electronics Control (CEC)

- Resolutions Supported:
 PC VGA, SVGA, XGA, SXGA, UXGA
 HDTV 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p 24fps
- High Definition Audio supported Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS-232 & IR Remote Control
- CEC Auto switch control function
- Supports 'Deep Colour' (10 & 12 bit)
- 3D Ready



| Model: | EL-C81C |
|------------|---|
| Input | 8 x HDMI, 1 x RS-232 |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 280(W) x 45(H) x 115(D) mm |
| Weight | 0.54kg |









• OR-HD22S: v1.3 HDMI 2 x 2 Matrix Switcher

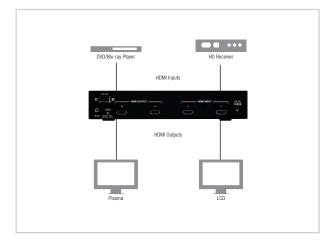
This HDMI matrix provides an excellent and convenient solution for connecting all HDMI equipment. You can select which source to view on each display using the remote control.

This matrix can also transfer deep colour video and bitstream audio with maximum performance. It supports HDMI 1.3, HDCP 1.1 and DVI 1.0.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 2 x 2 Matrix Switcher
- · Resolutions supported:
- PC VGA to UXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock/phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports IR remote control and IR extender together with RS-232 control
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- · 3D Ready





| Model: | OR-HD22S | |
|------------|---|--|
| Input | 2 x HDMI, 1 x IR Extender | |
| Output | 2 x HDMI, 1 x RS-232 | |
| Power | 5v/3.2A DC (US/EU standards, CE/FCC/UL certified) | |
| Dimensions | 240(W) x 48(H) x 165(D) mm | |
| Weight | 0.88kg | |









OR-HD24S: v1.3 HDMI 2 x 4 Matrix Switcher

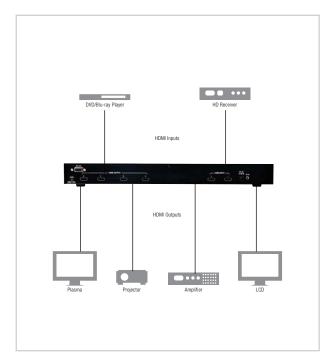
This HDMI matrix provides an excellent and convenient solution for connecting all HDMI equipment. You can select which source to view on each display using the remote control.

This matrix can also transfer deep colour video and bitstream audio with maximum performance. It supports HDMI 1.3, HDCP 1.1 and DVI 1.0.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 2 x 4 Matrix Switcher

- Resolutions supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports IR remote control and IR extender together with RS-232 control
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready



Specifications:

| Model: | OR-HD24S |
|------------|---|
| Input | 2 x HDMI, 1 x IR Extender |
| Output | 4 x HDMI, 1 x RS-232 |
| Power | 5v/6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 440(W) x 48(H) x 175(D) mm |
| Weight | 1.76kg |



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• OR-HD42S: v1.3 HDMI 4 x 2 Matrix Switcher

This HDMI matrix provides an excellent and convenient solution for connecting all HDMI equipment. You can select which source to view on each display using the remote control.

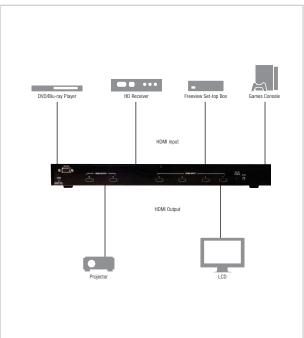
This matrix can also transfer deep colour video and bitstream audio with maximum performance. It supports HDMI 1.3, HDCP 1.1 and DVI 1.0.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4 x 2 Matrix Switcher
- · Resolutions supported:

 - PC VGA to UXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports IR remote control and IR extender together with RS-232 control
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- · 3D Ready





| Model: | OR-HD42S |
|------------|---|
| Input | 4 x HDMI, 1 x IR Extender |
| Output | 2 x HDMI, 1 x RS-232 |
| Power | 5v/6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 440(W) x 48(H) x 175(D) mm |
| Weight | 1.76kg |









OR-HD44E: v1.3 HDMI 4 x 4 Matrix Switcher

This HDMI matrix provides an excellent and convenient solution for connecting all HDMI equipment. You can select which source to view on each display using the remote control.

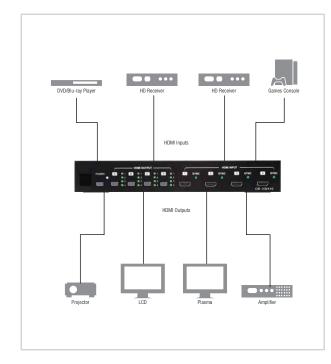
This matrix can also transfer deep colour video and bitstream audio with maximum performance. It supports HDMI 1.3, HDCP 1.1 and DVI 1.0.

Features:

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- HDMI 4 x 4 Matrix Switcher

- Resolutions supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock/phase adjusted & jitter eliminated so the output is a brand new standard HDMI signal
- Supports IR remote control and IR extender together with RS-232 control
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready





| Model: | OR-HD44E |
|------------|---|
| Input | 4 x HDMI, 1 x IR Extender |
| Output | 4 x HDMI, 1 x RS-232 |
| Power | 5v/3.2A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 280(W) x 50(H) x 145(D) mm |
| Weight | 1.28kg |









OR-HD44S: v1.3 HDMI 4 x 4 Matrix Switcher

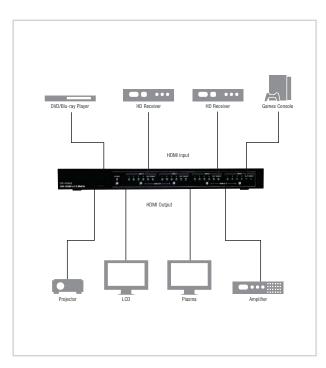
The OR-HD44S provides an ideal solution for connecting and distributing multiple HDMl sources to multiple HD displays.

The matrix can also transfer deep colour video and bitstream audio with maximum performance and supports HDMI 1.3, HDCP 1.1 and DVI 1.0.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4 x 4 Matrix Switcher
- · Resolutions supported:
- PC VGA to UXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports IR remote control and IR extender together with RS-232 control
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready





| • | |
|------------|---|
| Model: | OR-HD44S |
| Input | 4 x HDMI, 1 x IR Extender |
| Output | 4 x HDMI, 1 x RS-232 |
| Power | 5v/6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 440(W) x 48(H) x 175(D) mm |
| Weight | 1.8kg |









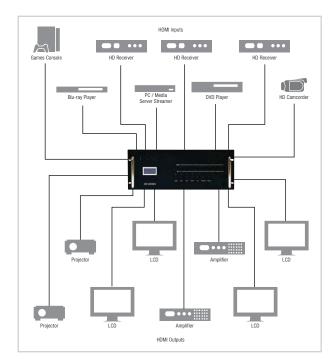
Compatible with v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio. As multiple HDMI inputs and outputs increase, the need for a HDMI matrix that will inter-connect these HDMI devices is requested more and more.

The OR-HD88S 8 x 8 HDMI Matrix provides a robust and convenient solution for these installations.

Features:

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- HDMI 8 x 8 Matrix Switcher
- · Resolutions supported:
- PC VGA to UXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- The HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal running up to 15m at 1080p
- RS-232 and IR remote control (Master & Zoned), plus IR extender
- Supports Deep Colour (10 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- Recall, Memory & Key Lock function
- 4U 19" rack mountable on sliding track for easy access
- 3D Ready





| Model: | OR-HD88S |
|------------|--|
| Input | 8 x HDMI, Service Ports - 1 x RS-232, 1 x USB, 1 x IR Jack |
| Output | 8 x HDMI, 1 x RS-232 |
| Power | 24v/6.25A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 482(W) x 176(H) x 325(D) mm |
| Weight | 10.5kg |



• OR-IR44: Infrared 4 x 4 Matrix Switcher

The OR-IR44 infrared matrix is designed for controlling up to four IR sources from four display locations, using the original source remote controls or universal remote controls.

A true matrix design allows any of the four inputs to be routed to any (or all) of the IR outputs giving full independent source to screen control. This solution also has an additional master input and output.

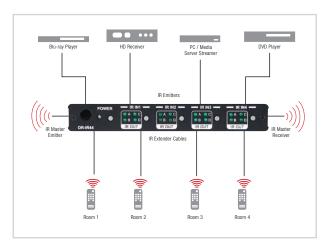
In addition to the user-defined settings of the matrix, all incoming signals are routed to the master output, and all master input signals are routed to all of the outputs.

A 5-eye emitter can be connected to the master output, giving the ability to control all four sources, plus an AV matrix.

Features:

- Infrared 4 x 4 Matrix with additional master input & output
- Supports independent and total IR receiver and IR blaster selection and control
- Only infrared signals are supported, this product does not send any AV signals
- Supports 20 ~ 70kHz IR frequency
- Use your existing remote controls





| Model: | OR-IR44 |
|------------|--|
| Input | 5 x mini-jack female (IR receivers) |
| Output | 5 x mini-jack female (IR blaster) |
| Power | 5v/1A DC (US/EU Standards, CE/FCC/UL (certified) |
| Dimensions | 180(W) x 25(H) x 120(D) mm |
| Net Weight | 0.84kg |







- CHMX-22: HDMI 2 x 2 Matrix Switcher
- CHMX-24: HDMI 2 x 4 Matrix Switcher
- CHMX-42: HDMI 4 x 2 Matrix Switcher

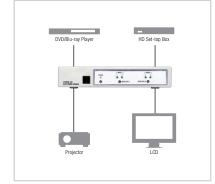
Multiple sources to multiple displays. Maximum convenience in HDMI signal distribution from multiple HDMI sources.

When an HDMI signal passes through a CYP matrix, the signal is automatically re-timed, level compensated, phase-error corrected and data jitter is eliminated, so the HDMI output is a regenerated, "brand new" HDMI signal that can run for another 20m and can also be cascaded.

Features:

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- LED indicator or each output selector
- Supports high HDTV/PC resolutions up to & including 1080p
- RS232 Control Wired IR solution & IR remote
- Supports last memory storage





| Model: | CHMX-22 | CHMX-24 | CHMX-42 |
|---------------------|----------------------------|----------------------------|----------------------------|
| Inputs | 2 x HDMI female ports | 2 x HDMI female ports | 4 x HDMI female ports |
| Outputs | 2 x HDMI female ports | 4 x HDMI female ports | 2 x HDMI female ports |
| Frequency Bandwidth | 1.65 Gbps | 1.65 Gbps | 1.65 Gbps |
| Power | 5v DC | 5v DC | 5v DC |
| Dimensions | 438(W) x 49(H) x 175(D) mm | 438(W) x 49(H) x 175(D) mm | 240(W) x 49(H) x 165(D) mm |
| Weight | 3.1kg | 3.1kg | 1.25kg |







QU-4M: v1.3 HDMI 1-to-4 Splitter with System Reset

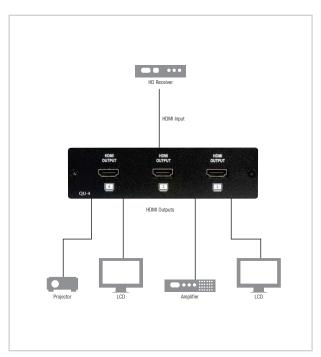
Each splitter in the Quantum Distribution Amplifier Series is compatible to v1.3 HDMl specifications, supporting 'Deep Colour' together with High Definition Audio.

Each buffered output can run 1080p up to 15 metres and can also be cascaded.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1-to-4 Splitter with System Reset function
- Resolutions supported: PC VGA to UXGA; HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10, & 12)
- Selectable EDID settings TV (downstream) and STD (fixed)
- Power & SYNC LED indicators
- Supports 3D signals

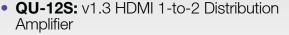




| Model: | QU-4M |
|------------|---|
| Input | 1 x HDMI female port |
| Output | 4 x HDMI female ports |
| Power | 5v DC/2.6A (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 142(W) x 40(H) x 95(D) mm |
| Weight | 0.56kg |







 $\,$ QU-12S HDMI distribution amplifier is an advanced solution within the Quantum Range of HDMI Distribution Amplifiers.

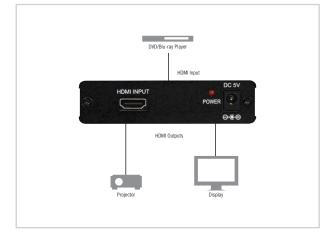
The QU-12S is compatible to v1.3 HDMI specifications, a cutting edge technology which defines the support of the transfer of Deep Colour (10-bit and 12-bit) video and new lossless compressed (LPCM 7.1ch Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio with a high bandwidth up to 225MHz (6.75Gbps).

Besides splitting and distributing, the QU-12S also boasts signal amplification and equalisation to provide high performance I/O of audio and video.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1-to-2 Splitter
- Resolutions supported:
- PC VGA to UXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10, & 12 bit)
- 3D Ready





| Model: | QU-12S |
|------------|---|
| Input | 1 x HDMI |
| Output | 2 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 146(D) mm |
| Weight | 0.5kg |





• QU-14S: v1.3 HDMI 1-to-4 Distribution **Amplifier**

The QU-14S HDMI Distribution Amplifier has a single HDMI input with 4 HDMI outputs.

The Silicon Image chipset based splitter is compatible with both Deep Colour and HD Audio. It boasts an extended HDMI output range of up to 20 metres. EDID management is handled by a simple switch.

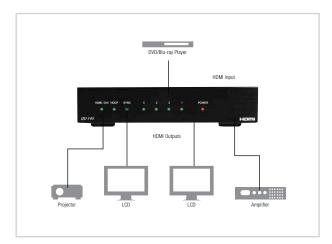
A common application of this product is in commercial and residential installations where one HDMI source is required at multiple HDTVs.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1~ 4 Splitter

- Resolutions supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- · Supports CEC bypass
- Supports 'Deep Colour' (10, & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)





| Model: | QU-14S |
|------------|---|
| Input | 1 x HDMI |
| Output | 4 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 215(W) x 45(H) x 135(D) mm |
| Weight | 0.58kg |







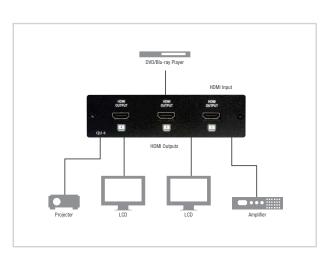
QU-4: v1.3 HDMI 1-to-4 Distribution Amplifier

The HDMI v1.3 Distribution Amplifier Series is the most advanced solution to HDMI signal distribution.

The QU-4 is compatible to HDMI v1.3 specifications, a cutting edge technology which defines the support to transfer Deep Colour (10-bit and 12-bit) video and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio, with a high bandwidth up to 225MHz (6.75Gbps).

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 ~ 4 distribution amplifier
- Resolutions supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10, & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready



| Model: | QU-4 |
|------------|---|
| Input | 1 x HDMI |
| Output | 4 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 142(W) x 40(H) x 95(D) mm |
| Weight | 0.56kg |





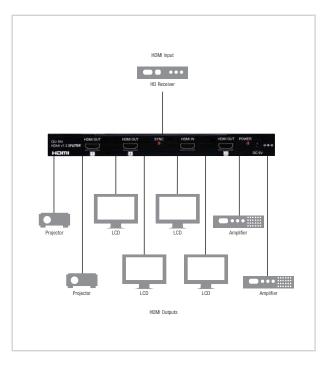
QU-8MS: v1.3 HDMI 1-to-8 Distribution Amplifier with System Reset

For multiple display output distribution, the QU-8MS provides a 1 In, 8 Out HDMI solution. Each buffered output can run 1080p up to 15 metres and can also be cascaded. The additional system reset function will generate a command every 10 minutes, which resets the displays to the designated HDMI input.

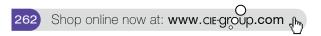


- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 ~ 8 Splitter with System Reset function

- Resolutions supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- · Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10, & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready



| • | |
|------------|---|
| Model: | QU-8MS |
| Input | 1 x HDMI |
| Output | 8 x HDMI |
| Power | 5v/5A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 240mm (W) x 105mm (D) x 30mm (H) |
| Weight | 1kg |









QU-14WE: v1.3 HDMI 1-to-4 Mountable Distribution Amplifier

The QU-14WE Wall-Mountable HDMI Distribution Amplifier has a single HDMI input with 4 HDMI outputs.

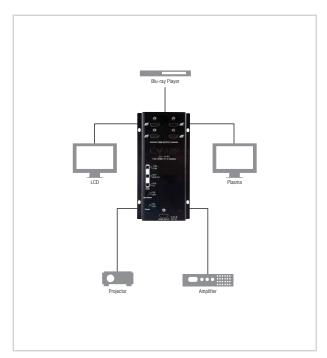
The Explorer chipset based splitter is compatible with both Deep Colour and High Definition Audio with EDID boost and System Reset Controls.

It boasts an extended HDMI output range of up to 10 metres. EDID management is handled by a single switch.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 ~ 4 Mountable Splitter

- Resolutions supported:PC VGA to UXGAHDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)



| Model: | QU-14WE |
|------------|---|
| Input | 1 x HDMI |
| Output | 4 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 94(W) x 32(H) x 187(D) mm |
| Weight | 0.46kg |









• QU-18WE: v1.3 HDMI 1-to-8 Mountable Distribution Amplifier

The QU18WE Wall-Mountable HDMI Distribution Amplifier has a single HDMI input with 8 HDMI outputs.

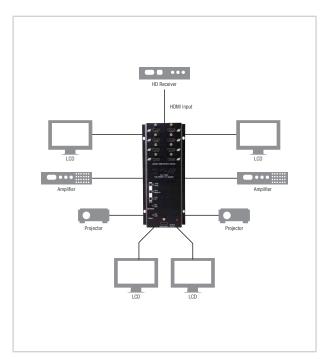
The Explorer chipset based splitter is compatible with both Deep Colour and High Definition Audio with EDID boost and System Reset Controls. It boasts an extended HDMI output range of up to 10 metres. EDID management is handled by a single switch.

The QU-18WE has mounting lugs cleverly integrated into the casing for easy horizontal or vertical mounting.

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 ~ 8 Mountable Splitter
- · Resolutions supported:

 - PC VGA to UXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- · Supports CEC bypass
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready





| • | |
|-------------|--|
| Model: | QU-18WE |
| Input | 1 x HDMI Female Ports |
| Output | 8 x HDMI Female port |
| Power | 5v/3.2A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions: | 93(W) x 32(H) x 220(D) mm |
| Net Weight | 0.46kg |







QU-18S: v1.3 HDMI 1-to-8 Rack-mountable Distribution Amplifier

The QU-18S HDMI Distribution Amplifier has a single HDMI input with 8 HDMI outputs.

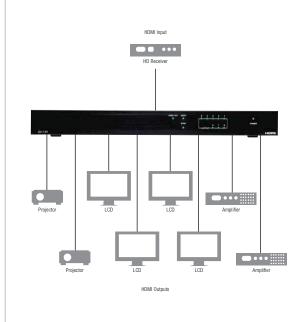
The Silicon Image chipset based splitter is compatible with both Deep Colour (10 & 12 bit) and HD Audio. It boasts an extended HDMI output range of up to 20 metres. EDID management is handled by a simple switch.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 ~ 8 Splitter

- Resolutions supported:
 PC VGA to UXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready





| Model: | QU-18S | |
|------------|---|--|
| Input | 1 x HDMI | |
| Output | 8 x HDMI | |
| Power | 5v/6A DC (US/EU standards, CE/FCC/UL certified) | |
| Dimensions | 435(W) x 45H) x 160(D) mm | |
| Weight | 1.75kg | |



QU-210S: v1.3 HDMI 2-to-10 Rack Mountable Distribution Amplifier

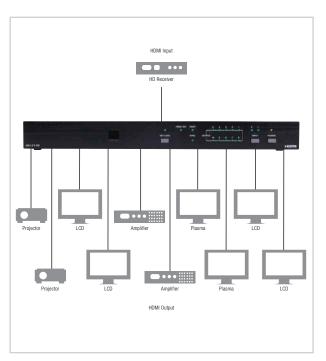
The QU-210S HDMI Distribution Amplifier has 2 HDMI inputs and 10 HDMI outputs. The Silicon Image chipset based splitter is compatible with both Deep Colour and Hlgh Definition Audio with

It boasts an extended HDMI output range of up to 20 metres. EDID management is handled by a simple switch.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 2 ~ 10 Splitter
- · Resolutions supported:
- PC VGA to UXGAHDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports 'Deep Colour' (10 & 12 bit)
- Selectable EDID settings TV (downstream) and STD (fixed)
- 3D Ready





| Model: | QU-210S |
|------------|--|
| Input | 2 x HDMI |
| Output | 10 x HDMI |
| Power | 5v/6A DC (US/EU standards, CE/FCC/UL certifi ed) |
| Dimensions | 435(W) x 45(H) x 160(D) mm |
| Weight | 1.76kg |







• RE-101: v1.3 HDMI-to-HDMI Repeater

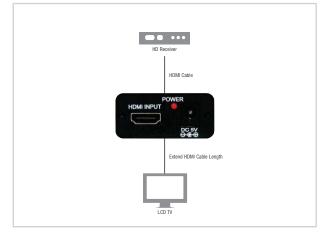
The RE-101 Repeater uses v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio with a high bandwidth up to 225MHz.

This solution allows distribution of HDMI up to a length of 30 metres.

Features:

- $\bullet\,$ v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Supports high definition up to 1080p @ 50/60Hz, output resolution follows input
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Equalises and recovers incoming TMDS data before re-transmitting so that the output is of optimal quality, regardless of incoming signal
- Supports CEC functions
- Supports 'Deep Colour' (10, & 12 bit)
- 3D Ready





| Model: | RE-101 |
|------------|---|
| Input | 1 x HDMI |
| Output | 1 x HDMI |
| Power | 5v/2.6A DC (US/EU Standards, CE/FCC/UL Certified) |
| Dimensions | 50(W) x 25(H) x 55(D) mm |
| Weight | 0.26kg |





RE-11HS: v1.3 HDMI-to-HDMI Equaliser

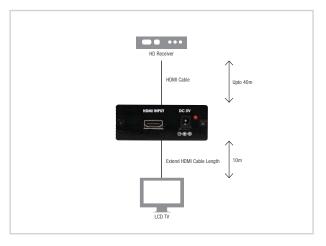
The RE-11HS Equaliser uses v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio with a high bandwidth up to 225MHz.

The product supports cable lengths up to 40 metres from the source and 10 metres to the display.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI to HDMI Equaliser
- Resolutions Support: (Output resolution follows Input)
 PC: VGA,SVGA,XGA,SXGA and UXGA (1600 x 1200)
 HDTV: 480i, 576i, 480p, 576p, 720p, 1080i & 1080p + 1080P 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Corrects digital error and automatically provides equalisation up to 40dB
- Automatic equalisation up to 40dB
- 3D Ready





| • | |
|------------|---|
| Model: | RE-11HS |
| Input | 1 x HDMI |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 75(W) x 30(H) x 72(D) mm |
| Weight | 0.26kg |





Compact HDMI over Cat-X Extender Kit

Utilising cost effective and readily available single Cat-X cable, these units allow extended distances to be quickly covered between AV source and display devices. The configuration is normally in the form of a transmit unit and receive unit. Ideal for digital signage applications.

• ET-HC0101-T: HDMI to Cat-X Transmitter

Mini HDMI to Cat-X converter, perfect for HDMI expansion / digital signage whilst minimising the use of expensive HDMI cables.

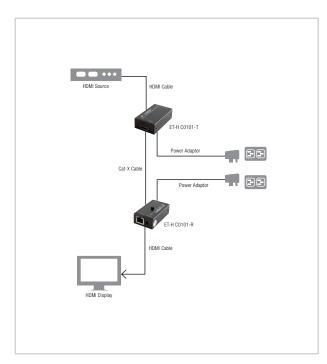
Normally used in conjunction with a ET-HC0101-R Cat-X to HDMI Receiver.



• ET-HC0101-R: Cat-X to HDMI Receiver

Mini Cat-X to HDMI converter, which is normally used with the ${\rm ET\text{-}HC0101\text{-}T}$ Transmitter (above). The receiver has built-in EQ to allow fine tuning of the video image.







Specifications:

| Model: | ET-HC0101-T | ET-HC0101-R |
|---|---|---|
| Description | Mini HDMI Cat-X transmitter | Mini HDMI Cat-X receiver |
| AV Inputs | HDMI x 1 | RJ-45 x 1 |
| AV Remote Outputs | RJ-45 x 1 | HDMI x 1 |
| Resolution & Transmission Distance | 480p @ 80m, 1080i / 720p @ 60m / 1080p @ 30m | 480p @ 80m, 1080i / 720p @ 60m / 1080p @ 30m |
| Power | 5v DC | 5v DC |
| Dimensions | 21(H) x 69(W) x 39(D) mm | 21(H) x 69(W) x 39(D) mm |
| The use of law skew Cat V cable is recommended for best performance | | |

The use of low skew Cat-X cable is recommended for best performance.





• HDMI-HR:

RJ-45/HDMI Receiver (non-powered)

Suitable as a short-range receiver (up to 10m) converting from RJ-45 to HDMI. This non-powered device plugs directly into a monitor's HDMI socket.

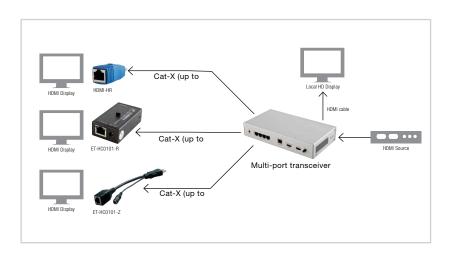
Note: some displays (particularly Samsung brand products) require a power source to function correctly; in this case please use the powered version below.



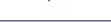
• ET-HC0101-Z: RJ-45/HDMI Receiver (powered)

A powered version of the above product. This is required on some brands of flat screen displays, particularly Samsung products.









ET-HK0101-MC: HDMI over Single Cat-X Extender

This HDMI 1.3 over Cat-X Kit extends single HDMI video/audio signals over a transmission distance of up to 40 metres in HDTV 1080p format and up to 60 metres in 1080i format.

Utilising only one cost-effective Cat-X LAN cable, your HD source signal can be extended to a HD display sited a significant distance from source.

Features:

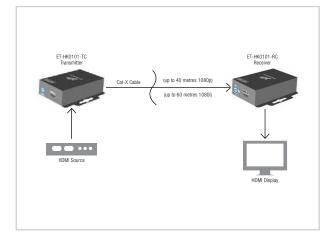
- HDMI 1.3c compliant
- HDCP 1.1 compliant
- Supports 1080p up to 40 metres, 1080i up to 60 metres
- Adjustable 8-level EQ control switch to minimise cable skew
- Supports DTS-HD and Dolby True HD high bit rate audio



Transmitter



Receiver



Specifications:

| Model: | ET-HK0101-TC | ET-HK0101-RC | |
|-----------------|----------------------------|--|--|
| Unit | Transmitter | Receiver | |
| Video Support | 480i / 480p / | 720p / 1080i / 1080p | |
| Transmissions | | Full HD (1080p) ~ 40m (130ft) (CAT-5e) / 50m (165ft) (CAT-6) HD (720p/1080i) ~ 50m (165ft) (CAT-5e) / 60m (200ft) (CAT-6) | |
| Audio Support | Surround sound (up to 7.1c | Surround sound (up to 7.1ch) or stereo digital audio | |
| Equalisation | 8 level dig | 8 level digital control at RX | |
| Input | HDMI x 1 | RJ-45 x 1 | |
| Output | RJ-45 x 1 | HDMI x1 | |
| HDMI Connector | Type A | Type A (19-pin female) | |
| RJ-45 Connector | WE/SS 8P80 | WE/SS 8P8C with 2 LED indicators | |
| Power Supply | Inter-Io | Inter-lock 5v/4A DC | |
| Power Input | 17 | 1W (max) | |
| Dimensions | 25(H) x 8 | 25(H) x 85(W) x 60(D) mm | |



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• ET-HD0101-MC: HDMI over Cat-X Extender Kit with IR Control Path

This HDMI 1.3 over Cat-X Kit extends single HDMI video/audio signals over a transmission distance of up to 40 metres in HDTV 1080p format and up to 60 metres in 1080i format.

IR Control Path

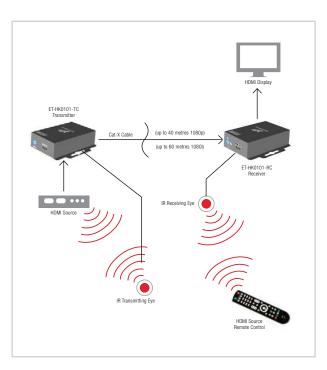
In addition, this HDMI over Cat-X extender kit also includes IR Control Path feature which allows the remote control functionality of your HD source (eg. Blu-ray / DVD player remote control) to function at the 'output display' end of the system, even though the HD source may be sited up to 60 metres away.

Features:

- HDMI 1.3c compliant
- HDCP 1.1 compliant
- Embedded IR (infrared) control path
- Supports 1080p up to 40 metres, 1080i up to 60 metres
- Adjustable 8-level EQ control switch to minimise cable skew
- Supports DTS-HD and Dolby True HD high bit rate audio
- IR Receiver & Blaster included







| Model: | ET-HD0101-MC-TC | ET-HD0101-MC-RC | |
|-----------------|--------------------------|--|--|
| Unit | Transmitter | Receiver | |
| Video Support | 480i / 480p / 720 | Op / 1080i / 1080p60 | |
| Transmissions | , ,, | Full HD (1080p) ~ 40m (130ft) (CAT-5e) / 50m (165ft) (CAT-6) HD (720p/1080i) ~ 50m (165ft) (CAT-5e) / 60m (200ft) (CAT-6) | |
| Audio Support | Surround sound (up to 7. | Surround sound (up to 7.1ch) or stereo digital audio | |
| Equalisation | 8-level digita | 8-level digital control at RX | |
| Input | HDMI x 1 | RJ-45 x 1 | |
| Output | RJ-45 x 1 | HDMI x 1 | |
| HDMI Connector | Type A (19 | Type A (19-pin female) | |
| RJ-45 Connector | WE / SS 8P8C wi | WE / SS 8P8C with 2 LED indicators | |
| Power Supply | Inter-lock | Inter-lock 5v/4A DC | |
| Power Input | 1W (m | 1W (max) | |
| Dimensions | 25(H) x 85(| 25(H) x 85(W) x 60(D) mm | |





CA-HDMIAT:

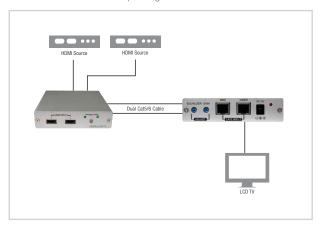
HDMI over Cat-X Transmitter (up to 250m)

The CA-HDMIAT is a HDMI over Cat-X transmitter unit (which combines with the CA-HDMIR receiver units) and will extend an HDMI signal over two Cat-X cables up to 250m.

Receivers are available in 50, 100, 150 and 250m versions (CA-HDMI50R, CA-HDMI100R, CA-HDMI150R & CA-HDMI250R). Select receiver by the distance of transmission.

Features:

- Compliant with HDMI 1.2, HDCP 1.1 and DVI 1.0 specifications
- Supports CAT-5/CAT-5E/CAT-6 cables
- Supports high definition input up to 1080P @ 50/60Hz
- · Output resolution follows input
- · Sources are selectable at input stage



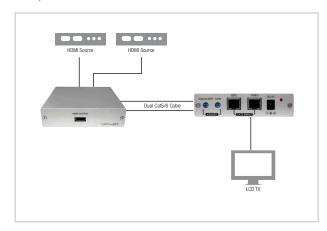
Specifications:

| Model: | CA-HDMIAT |
|------------|---|
| Inputs | 2 x HDMI female port |
| Outputs | 2 x RJ-45 (1 x CAT-5 video & 1 x CAT-5 for DDC outputs) |
| Power | 5v/2.6A DC power supply |
| Dimensions | 123(W) x 30(H) x 125(D) mm |
| Weight | 0.7kg |

- CA-HDMI-50R: HDMI over CAT5 Receiver up to 50m
- CA-HDMI-100R: HDMI over CAT5 Receiver up to 100m
- CA-HDMI-150R: HDMI over CAT5 Receiver up to 150m
- CA-HDMI-250R: HDMI over CAT5 Receiver up to 250m

The CA-HDMI Series are receiver units which combine with the CA-HDMIAT Transmitter for transmitting a HDMI signal up to 50, 100, 150, 200 metres in distance.

- Compliant with HDMI 1.2, HDCP 1.1 and DVI 1.0 specifications
- Supports CAT-5/CAT-5E/CAT-6 cables
- Supports high definition input up to 1080P @ 50/60Hz
- Output resolution follows input
- Easy installation



Specifications:

| Model: | CA-HDMIxxxR |
|------------|--|
| Input | 1 x CAT-5 input for Video, 1x CAT-5 input for DDC |
| Output | 1 x HDMI female port |
| Power | 5v/2.6A DC power supply |
| Dimensions | 123(W) x 125(D) x 30(H) mm |
| Weight | 0.7kg |



CAT5 6 HDMI



• PU-103: v1.3 HDMI over Cat-X Extender Kit

All the CYP PUMA, HDMI over CAT5e/6 transmitters and receivers are the perfect solution to extend HDMI signals via CAT cabling up

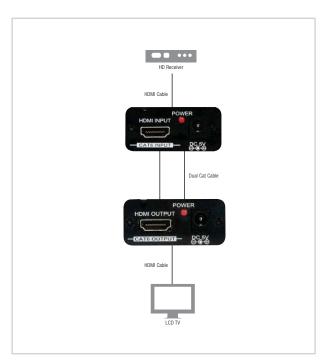
For even longer distances, also use the PU-108 repeater, which can be cascaded.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant
- Resolutions supported:
- PC VGA to WXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Compatible with CAT-5E and CAT-6 cables. CAT-6 is recommended for better performance
- Supports CEC functions
- Supports 'Deep Colour' (10, & 12 bit)
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality
- 3D Ready



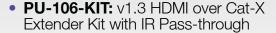




| Model: | | PU-103 |
|-----------|-------------------------|--|
| Input: | Transmitter Receiver | 1 x HDMI 1 x CAT5e/6 for Video, 1 x CAT5e/6 for DDC |
| Output: | Transmitter Receiver | 1 x CAT5e/6 for Video, 1 x CAT5e/6 for DDC 1 x HDMI |
| Power | | 2 x 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimension | าร | 50(W) x 23(H) x 62(D) mm |
| Weight | | 0.34kg |







All the PUMA, HDMI over CAT5e/6 transmitters and receivers are the perfect solution to extend HDMI signals via CAT cabling up to

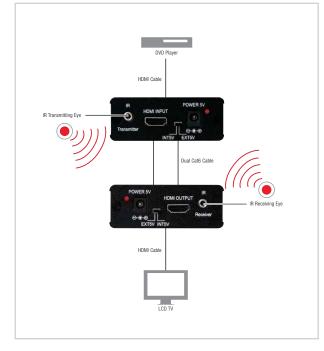
The PU-106 Kit also allows you to use your existing Remote Control to control your device with the included IR Reciever & Blaster.

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant
- HDMI over Cat-X Extender Set
- Resolutions supported:

 - PC VGA to WXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Compatible with CAT-5e and CAT-6 cables. CAT-6 is recommended for better performance
- Supports CEC functions & IR blaster
- Supports 'Deep Colour' (10 & 12 bit)
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality
- 3D Ready







| Model: | | PU-106-KIT |
|----------|-------------------------|---|
| Input | Transmitter Receiver | 1 x HDMI, 1 x IR Jack 2 x CAT5e/6, 1 x IR Jack |
| Output | Transmitter Receiver | 2 x CAT5e/6, 1 x IR Jack 1 x HDMI, 1 x IR Jack |
| Power | | 2 x 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensio | ns | 80(W) x 30(H) x 72(D) mm each |
| Weight | | 0.76kg |



• PU-108: v1.3 HDMI ~ Cat-X Repeater

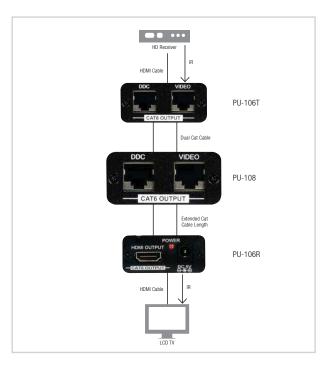
A dedicated extender for extending the CAT6 cables used with the PU-103, PU-1103, and PU-1106 HDMI over CAT6 Extender Sets.

This great device will extend your cabling up to 25 metres either side of the repeater, allowing IR pass-through and can be cascaded up to 5 times.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant
- HDMI over CAT5e / CAT6 Repeater
- · Resolutions supported:
- PC VGA to WXGA HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Compatible with CAT-5e and CAT-6 cables. CAT-6 is recommended for better performance
- Supports CEC functions
- Supports 'Deep Colour' (10 & 12 bit)
- Supports Infra Red control signals throughput when in use with PUMA product which enable IR control
- 3D Ready





| • | |
|------------|--|
| Model: | PU-108 |
| Input | 1 x CAT5e/6 for Video, 1 x CAT5e/6 for DDC |
| Output | 1 x CAT5e/6 for Video, 1 x CAT5e/6 for DDC |
| Power | n/a - seperate power supply not required |
| Dimensions | 50(W) x 23(H) x 70(D) mm |
| Weight | 0.1ka |







- PU-1103-KIT: v1.3 HDMI over Cat-X Extender Kit
- **PU-1106-KIT:** v1.3 HDMI over Cat-X Extender Kit with IR Pass-through

A dedicated extender for extending the Cat6 cables used with the PU-103, PU-1103 and PU-1106 HDMI over Cat6 Extender Sets.

This great device will extend your cabling up to 30 metres either side of the repeater, allowing IR pass-through, and can be cascaded.

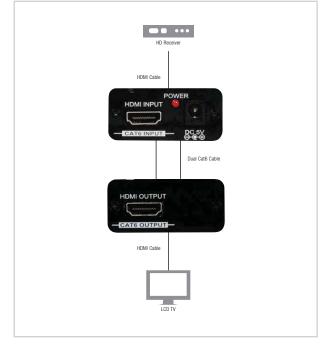
Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant
- HDMI over CAT6 Extender Set

- Resolutions supported:
 PC VGA to WXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Compatible with CAT-5E and CAT-6 cables. CAT-6 is recommended for better performance
- Supports CEC functions
- Supports 'Deep Colour' (10, & 12 bit)
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality
- 3D Ready







| Model: | | PU-1103-KIT |
|------------|-------------------------|--|
| Input | Transmitter Receiver | 1 x HDMI female port 1 x CAT5e/6 for video, 1 x CAT5e/6 for DDC |
| Output | Transmitter Receiver | 1 x CAT5e/6 for video, 1 x CAT5e/6 for DDC 1 x HDMI female port |
| Power | | 1 x 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | | 50(W) x 23(H) x 72(D) mm each |
| Weight | | 0.38kg |



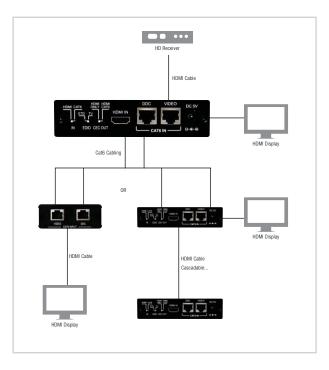




The PU-22HC cascader with its dual input and outputs allows for great flexibility within any HDMI over CAT6 system.

- v1.3 HDMI, HDCP 1.1 and DVI 1.1 compliant
- Resolutions supported:
 PC VGA to WUXGA
 HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Supports CEC functions
- Supports 'Deep Colour' (10 & 12 bit)
- Equalises and recovers incoming TMDS data before re-transmitting to ensure optimum signal quality
- 3D Ready

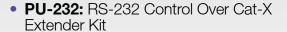




| • | |
|------------|---|
| Model: | PU-22HC |
| Input | 2 x CAT6, 1 x HDMI |
| Output | 2 x CAT6, 1 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 125(W) x 30(H) x 120(D) mm |
| Weight | 0.6kg |







The CAT5/6 RS-232 extender is an affordable, hardware-based solution providing control of any RS-232 protocol device. This transmitter and receiver set will extend the control of RS-232 for

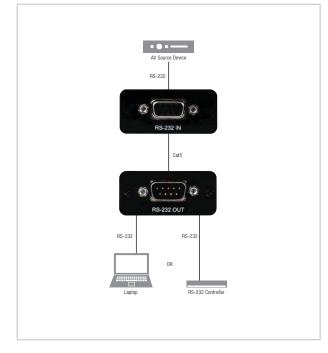
The RS-232 extender also provides full duplex transmission and hardware handshake signals, with no need for any set up or configuration.

Features:

- Extends any RS-232 compliant device up to 250 metres from the source to display
- Requires only one CAT5/6 cable
- Perfect for digital signage applications
- Baud Rate: 110 ~ 921600
- Data bit: 8bit
- 3D Ready







| Model: | PU-232 |
|------------|---|
| Input | 1 x RS-232 D-sub (9-pin female), 1 x CAT5/6 |
| Output | 1 x RS-232 D-sub (9-pin female), 1 x CAT5/6 |
| Power | 2 x 5V/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 50(W) x 23(H) x 61(D) mm |
| Weight | 0.26kg |







PU-O4H4C: v1.3 HDMI 4x4 Matrix with built-in HDMI over Cat-X outputs

CYP's PU-O products combine HDMI over Cat-X & HDMI Matrix switchers to provide versitility to HDMI installations.

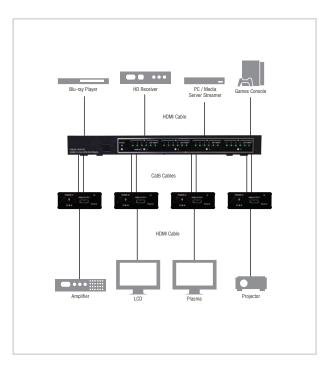
The PU-O4H4C HDMI Matrix has 4 HDMI inputs and 4 Cat-X transmitter outputs.

Each of the four HDMI sources can be directed to any one of the four Cat-X outputs, so each display can show the same or a different source.

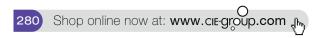


Features:

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- HDMI 4 x 4 Matrix with built-in HDMI over Cat-X outputs
- Resolutions supported: PC VGA to UXGA; HDTV 480i to 1080p + 1080p 24fps
- High Definition audio supported: Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio + LPCM
- The HDMI input is compensated, clock / phase adjusted and jitter eliminated so the output is a brand new standard HDMI signal
- RS-232 and IR remote control, plus IR extender
- Supports Deep Colour (10/12 bit)
- 3D Ready



| Model: | PU-04H4C |
|------------|--|
| Input | 4 x HDMI, 1 x IR Jack |
| Output | 8 x CAT5e/6 (2 for each output), 1 x IR Jack, 1 X RS-232 |
| Power | 5V/6A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 438(W) x 44(H) x 175(D) mm |
| Weight | 3.08kg |









PU-Q1C4H: 1-to-4 Cat-X to HDMI Splitter

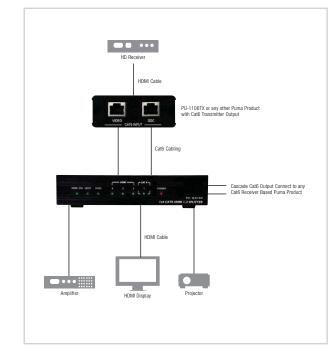
 $\hbox{CYP's PU-Q products combine HDMI over Cat-X with HDMI distribution to provide versitility to HDMI installations.}$

The PU-Q1C4H has 1 Cat-X receiver input and 1 Cat-X transmitter output with 3 HDMl outputs.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Resolutions supported: PC VGA to UXGA; HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Cat-X I/O can run up to 30m @ 1080p. HDMI Output can run up to 10 metres
- Selectable EDID settings TV (downstream) and STD (fixed)
- Supports 'Deep Colour' (10, & 12)
- IR extender I/O
- System reset function switch generate a command every 10 minutes to the connected display which resets them to the correct HDMI input
- 3D Ready





| Model: | PU-Q1C4H |
|------------|---|
| Input | 2 x CAT5e/6 (2 for each input), 1 x IR Jack |
| Output | 2 x CAT5e/6, (2 for each output), 1 x IR Jack, 3 x HDMI |
| Power | 5v/2.6A DC, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 215(W) x 40(H) x 132(D) mm |
| Weight | 0.7kg |



PU-Q1C8H: 1-to-8 Cat-X to HDMI Splitter

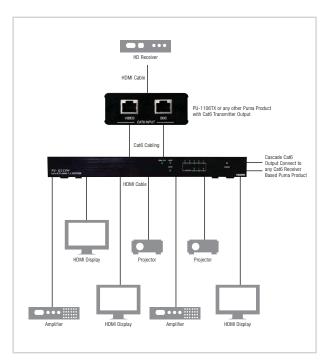
CYP's PU-Q products range combines HDMI over Cat-X with HDMI distribution to provide versitility to HDMI installations.

The PU-Q1C8H has 1 Cat-X receiver input and 1 Cat-X transmitter output with 7 HDMI outputs.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Resolutions supported: PC VGA to UXGA; HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Cat-X I/O can run up to 30m @ 1080p. HDMI Output can run up to 10 metres
- Selectable EDID settings TV (downstream) and STD (fixed)
- Supports 'Deep Colour' (10, & 12)
- IR extender I/O
- 3D Ready





| Model: | PU-Q1C8H |
|------------|--|
| Input | 2 x CAT5e/6 (2 for each input), 1 x IR Jack |
| Output | 2 x CAT5e/6 (2 for each output), 1 x IR Jack, 7 x HDMI |
| Power | 5v/6A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 435(W) x 50(H) x 160(D) mm |
| Weight | 1.7kg |







PU-Q1H4C: 1-to-4 HDMI to Cat-X Splitter

All the PUMA, HDMI over Cat-X transmitters and receivers are the perfect solution to extend HDMI signals via Cat-X cabling up to

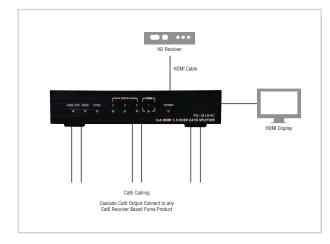
The PU-Q products within the PUMA range combine HDMI over Cat-X with HDMI distribution to provide versitility to HDMI installations.

The PU-Q1H4C has 1 HDMI input and 1 HDMI output and 3 Cat-X transmitter outputs.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- 1 ~ 4 HDMI to Cat-X splitter
- Resolutions supported: PC VGA to UXGA; HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Cat-X I/O can run up to 30m @ 1080p. HDMI Output can run up to 10 metres
- Selectable EDID settings TV (downstream) and STD (fixed)
- Supports 'Deep Colour' (10, & 12)
- 3D Ready





| Model: | PU-Q1H4C |
|------------|--|
| Input | 1 x HDMI, 1 x IR Jack |
| Output | 1 x HDMI, 1 x IR Jack, 6 x CAT5e/6 (2 for each output) |
| Power | 5v/2.6A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 215(W) x 40(H) x 132(D) mm |
| Weight | 0.72kg |





PU-Q1H8C: 1-to-8 HDMI to Cat-X Splitter

All the PUMA, HDMI over Cat-X transmitters and receivers are the perfect solution to extend HDMI signals via CAT cabling up to 40m.

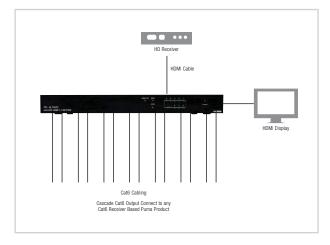
The PU-Q products within the PUMA range combine HDMI over Cat-X with HDMI distribution to provide versatility to HDMI installations.

The PU-Q1H8C has 1 HDMI input and 1 HDMI output with 7 Cat-X transmitter outputs.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- 1 ~ 8 HDMI to Cat-X splitter / transmitter
- Resolutions supported: PC VGA to UXGA; HDTV 480i to 1080p plus 1080p 24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Cat-X I/O can run up to 30m @ 1080p. HDMI Output can run up to 10 metres
- Selectable EDID settings TV (downstream) and STD (fixed)
- Supports 'Deep Colour' (10, & 12)
- IR extender I/O
- 3D Ready





| • | |
|------------|---|
| Model: | PU-Q1H8C |
| Input | 1 x HDMI, 1 x IR Jack |
| Output | 1 x HDMI, 1 x IR Jack, 14 x CAT5e/6 (2 for each output) |
| Power | 5v/6A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 435(W) x 50(H) x 160(D) mm |
| Weight | 1.72kg |









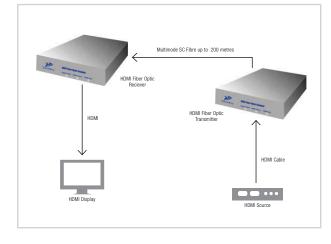
This HDMI over Fiber Optic Extender Kit will boost your high resolution video/audio signal distance by up to 200 metres, whilst ruling out any RF interference issues characteristic of traditional copper wire cable.

Ideal for a wide range of video and signage applications requiring remote HDMI display.

Features:

- HDMI 1.3c compliant
- HDCP fully compliant without copper wire
- Long distance video and audio transmission up to 200 metres
- Supports high resolution image quality
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1
- 3D Ready





| Model: | ET-HF0101-TG200 | ET-HF0101-RG200 |
|-----------------------|------------------------------|---------------------------|
| Model Name | HDMI Fiber Optic Transmitter | HDMI Fiber Optic Receiver |
| Maximum Resolution | 1920x1080 | |
| Maximum Length | 1920 x 1080-200 | m, 62.5/ 125 MMF |
| Input | HDMI x 1 | SC x 2 |
| Output | SC x 2 | HDMI x 1 |
| HDMI Connector | Type A (19-pin female) | |
| Fiber Optic Connector | SC Type | |
| Optical Property | VCSEL 850n | ım @ - 6dBm |
| | FP LD 1550 | nm @ - 3dBm |
| | FP LD 1310 | nm @ - 3dBm |
| Power Supply | 5v/600mA DC | |
| Dimensions | 145(W) x 26(H) x 95(D) mm | |
| | | |

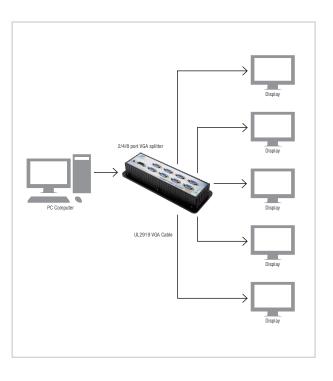


• **VS-201H:** 1-to-2 VGA Splitter • **VS-401H:** 1-to-4 VGA Splitter • **VS-801H:** 1-to-8 VGA Splitter

With 350MHz bandwidth these units allow video to be simultaneously displayed across multiple displays quickly and effectively.

The bases of the units are magnetic to allow for easy attachment to





| Model: | VS-201H | VS-401H | VS-801H |
|-------------------|---|---|---|
| Power Consumption | DC 9v; 200mA | DC 9v; 200mA | DC 9v; 200mA |
| Cable Distance | 65m (210 feet) max | 65m (210 feet) max | 65m (210 feet) max |
| Signal Type | VGA, SVGA, XGA, Multi-sync, TFT-LCD monitor | VGA, SVGA, XGA, Multi-sync, TFT-LCD monitor | VGA, SVGA, XGA, Multi-sync, TFT-LCD monitor |
| Connector | Input: HD15 male x 1 / Output: HD15 female x 1 | Input: HD15 male x 1 / Output: HD15 female x 4 | Input: HD15 male x 1 / Output: HD15 female x 8 |
| LED Display | Power indicator x 1, Active indicator x 1 | Power indicator x 1, Active indicator x 1 | Power indicator x 1, Active indicator x 1 |
| Enclosure | Plastic | Plastic | Plastic |
| Dimensions | 100(W) x 23(H) x 56(D) mm | 220(W) x 36(H) x 80(D) mm | 220(W) x 36(H) x 80(D) mm |



• SV-102: 2-to-1 VGA Switch

Self-powered VGA switch allowing one of two VGA sources to be selected at any time.

The unit can be manually or auto switched.

- Switches two VGA sources to one monitor display
- Auto detect monitor and DDC2B signal for each port
- Auto scan function
- LED status indicates VGA channel
- · Manual switch on unit
- Optional remote switch



| Model: | SV-102 |
|-------------------|--|
| VGA Select Method | Auto sensing, Front push button |
| Signal Type | VGA, XGA, SVGA, Multi-sync, TFT-LCD monitor |
| Extended Length | 30m (max) |
| Connector | Input: 2 x D-sub 5, male / Output: 1 x D-sub15, female |
| LED Display | 2 LEDs, VGA1 & VGA2 |
| Enclosure | Plastic |
| Power | Self-powered via VGA connection |
| Dimensions | 100(W) x 23(H) x 56(D) mm |



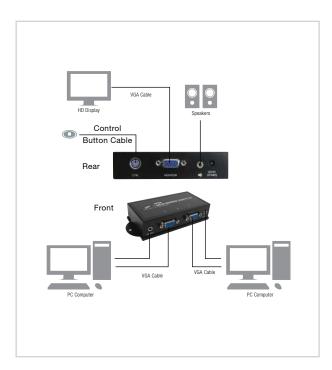
• SW-VA0201: 2-to-1 VGA and Audio Switch

This 2 x 1 VGA plus Audio Switch allows easy switching between two video & audio sources to one display and speaker system. Switching between two output signals can easily be done by the press of a button without sacrificing any downgrade of picture quality.

Features:

- Switches Video and Audio from two sources to one set of display monitor and speakers
- Pure hardware implementation free from installation software or drivers
- User-friendly frontal LED indicates active channel status
- · Conveniently designed no external power adaptor required
- Magnetic and removeable screw plate mountings





| Model: | SW-VA0201 |
|------------------|----------------------------------|
| Input 5 | VGA x 2 / 3.5mm Jack x 2 |
| Output | VAG x 1 / 3.5 mm Jack x 1 |
| Resolution | 1920 x 1200 |
| Audio | Stereo |
| Selection Method | Manual Select Button |
| Power Source | Passive Unit (no power required) |
| Enclosure | Metal |
| Dimensions | 133(W) x 27(H) x 62(D) mm |

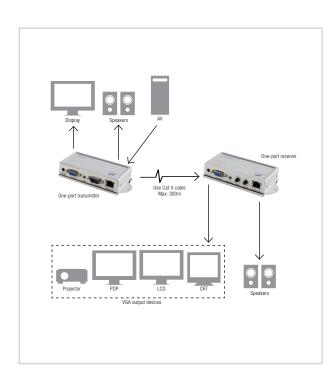
VGA over Cat-X Range Extenders (up to 300m)

Utilising cost effective and readily available Cat-X cable, these units allow extended distances to be quickly and easily covered between AV source and display devices.

In the basic form, the configuration is a Transmit unit and a Receive unit; however, source signals can also be split to provide simultaneous multiple displays if required.

• AVE-301T: 1 Port Transmitter • AVE-304T: 4 Port Transmitter • AVE-308T: 8 Port Transmitter • AVE-316T: 16 Port Transmitter

• AVE-301R: 1 Port Receiver



Transmitters:





| Model: | AVE-301T | AVE-304T | AVE-308T | AVE-316T | AVE-301R |
|---------------|---|---|---|---|---|
| Description | 1 port transmitter | 4 port transmitter | 8 port transmitter | 16 port transmitter | 1 port receiver |
| AV Inputs | VGA x 1, 3.5mm jack x 1 | RJ-45 x 1 |
| AV Outputs | VGA x 1, RJ-45 x 1, 3.5mm jack x 1 | VGA x 1, RJ-45 x 4, 3.5mm jack x 1 | VGA x 1, RJ-45 x 8, 3.5mm jack x 1 | VGA x 1, RJ-45 x 16, 3.5mm jack x 1 | VGA x 1, 3.5mm Jack x 1 |
| LED | Two colour LEDs |
| Video quality | Maximum VGA resolution and distance: 2048 x 1536 @ 300m | Maximum VGA resolution and distance: 2048 x 1536 @ 300m | Maximum VGA resolution and distance: 2048 x 1536 @ 300m | Maximum VGA resolution and distance: 2048 x 1536 @ 300m | Maximum VGA resolution and distance: 2048 x 1536 @ 300m |
| Dimensions | 113(W) x 29(H) x 62(D) mm | 240(W) x 44(H) x 130(D) mm | 240(W) x 44(H) x 130(D) mm | 240(W) x 44(H) x 130(D) mm | 113(W) x 29(H) x 62(D) mm |



• AVE-M180TR: One-port VGA+Audio Mini Extender Kit

Possibly the world's smallest VGA+Audio Extender Kit, transmitting VGA and Audio over CAT-X cable up to 180 metres.

Each kit is supplied with both the transmitter and receiver units.

Features:

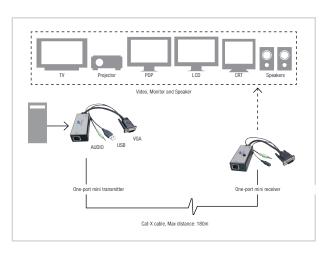
- Super compact design, allowing direct connection into the VGA sockets
- Pure hardware design, no software
- Support for VGA, SVGA, XGA, TFT, LCD and DDC2B function
- Transmitter takes power from USB port
- Receiver has built-in EQ adjustment for improved image quality
- Carries both Audio and Video signals
- Broadcast distance up to 180 metres



AVE-M180TR - Transmitter



AVE-M180TR - Receiver



| Model: | AVE-M180T: | AVE-M180R: |
|-------------------------|--|--|
| Description | Super mini AV Transmitter | Super mini AV Receiver |
| AV Inputs | VGA x 1, 3.5mm jack x 1 | RJ-45 x 1 |
| AV Outputs | RJ-45 x 1 | VGA x 1, 3.5mm jack x 1 |
| Video Control | - | Video EQ |
| LED | Power and video status | Power and video status |
| Video Quality | Maximum VGA resolution and distance: 2048 x 1536 @ 180m | Maximum VGA resolution and distance: 2048 x 1536 @ 180m |
| Power Source | 5v DC from USB Port | 5v DC supply |
| Environmental Condition | Operation temp: 0 ~ 50°C, Storage temp: -20 ~ 60°C, Humidity: 10 ~ 90% | Operation temp: 0 ~ 50°C, Storage temp: -20 ~ 60°C, Humidity: 10 ~ 90% |



CA-COMPAT: Cat-X PC/HD Transmitter with Audio Selection

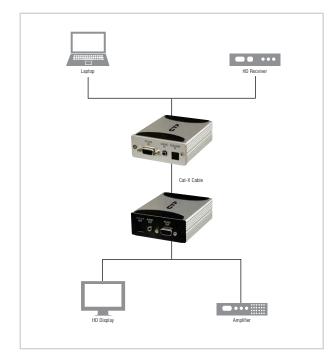
The CA-COMPAT is a PC/HD and audio transmitter (Tx) over Cat-X solution. It can extend Component or RGBHV signals through Cat-X Cables up to a distance of 100 metres.

System will require a receiver unit (CA-COMP50R or CA COMP100R).

Features:

- Supports HD / YCbCr / YPbPr format
- Supports CAT-5 / CAT-5E / CAT-6 cable
- Supports High Definition (HD) input source up to 1080p
- Supports PC input source up to UXGA
- Quick and Easy installation





Specifications:

| • | |
|------------|---|
| Model: | CA-COMPAT |
| Inputs | 1 x 15-pin D-SUB, 1 x 3.5 stereo jack plug, 1 x Toslink SP/DIF digital audio |
| Ouputs | 1 x RJ-45 with CAT-5/CAT-5E/CAT-6 Cable set |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 99(W) x 32(H) x 79(D) mm |
| Weight | 0.2kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075



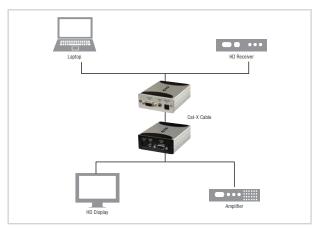
- CA-COMP50R: Cat-X PC/HD Receiver with Audio (50 metres)
- CA-COMP100R: Cat-X PC/HD Receiver with Audio (100 metres)

The CA-COMP PC/HD and audio receivers over Cat-X can receive Component or RGBHV signals through Cat-X Cables up to a distance of 50 or 100 metres - will require a transmitter unit (CA-COMPAT).

Features:

- Supports HD/YcbCr/YpbPr format
- Supports CAT-5/CAT-5E/CAT-6 cable
- Supports High Definition (HD) input source up to 1080p
- Supports PC input source up to UXGA
- Output signal resolution follows input
- Quick and Easy installation





| Model: | CA-COMP50R | CA-COMP100R |
|------------|--|--|
| Inputs | 1 x RJ-45 with CAT-5/ CAT-5E/CAT-6 Cable set | 1 x RJ-45 with CAT-5/ CAT-5E/CAT-6 Cable set |
| Outputs | 1 x 15-pin D-SUB, 1 x 3.5 stereo jack plug, 1 x Toslink SP/DIF digital audio | 1 x 15-pin D-SUB, 1 x 3.5 stereo jack plug, 1 x Toslink SP/DIF digital audio |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 99(W) x 32(H) x 79(D) mm | 99(W) x 32(H) x 79(D) mm |
| Weight | 0.2kg | 0.2kg |

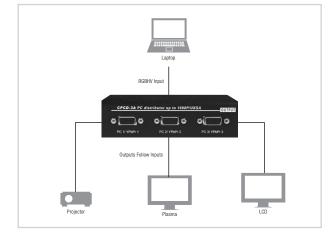


• CPCD-3A: 1-to-3 HD/VGA + Audio Distribution Amplifier

A three-way VGA splitter with audio, which will also accept YPbPr & YCbCr via the 15-pin D-sub input.

- Supports: RGBHV (PC) or HDTV progressive scan component (YPbPr) input signal via 15pin D sub connection
- Supports PC/HDTV resolution up to UXGA/1080p
- Accepts one VGA or HD component input and splits the signal into 3 buffered and identical outputs
- Supports stereo audio input and splits the signal into 3 identical outputs via 3.5mm mini-stereo connector





| Model: | CPCD-3A |
|------------|---|
| Inputs | 15pin D sub and 3.5mm stereo audio jack plug |
| Outputs | 3 buffered sets of 15pin D sub 1 x 3.5mm stereo jack plug |
| Power | 5v DC |
| Dimensions | 150(W) x 38(H) x 141(D) mm |
| Weight | 0.8kg |





• ET-DF0101-MG500: DVI Fiber Optic Extender Kit (Multi-mode LC type)

The ET-DF0101-MG500 DVI Fiber Optic Extender Kit boosts your DVI transmission distance by up to 500 metres from a DVI-D single link video source to remote monitor or projector.

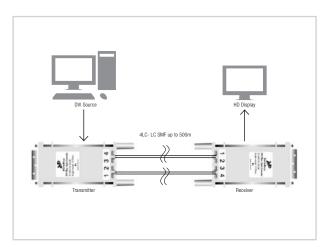
With four fiber optic cables, it provides longer signal tramsmission distance whilst ruling out any RF interference issues characteristic of traditional copper wire cable.

Features:

- Long distance video transmission up to 500 metres
- Supports high resolution image quality
- Supports Pseudo DDC detection function for EDID information
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1







| Model No: | ET-DF0101-TG500 | ET-DF0101-RG500 |
|-----------------------|--------------------------------|-----------------------------|
| Description | DVI Fiber Optic Transmitter | DVI Fiber Optic Receiver |
| Maximum Resolution | 1920 | x1200 |
| Maximum Length | (1920x1200)-300m [62.5/1 | 25μ MF] / 500m[50/125μ MMF] |
| Input | 1x DVI | 4x LC |
| Output | 4x LC | 1x DVI |
| DVI Connector | DVI-D [25-pin male] | |
| Fiber Optic Connector | LC Type | |
| Optical Property | 4 channels 850nm @ -6dBm ± 3dB | |
| Power Supply | 5v/1A DC | |
| Dimensions | 40(W) x 20(H) x 90(D) mm | |





The ET-DF0101-MG5K DVI Fiber Optic Extender Kit boosts your DVI transmission distance by up to 5km from a DVI-D single link video source to remote display.

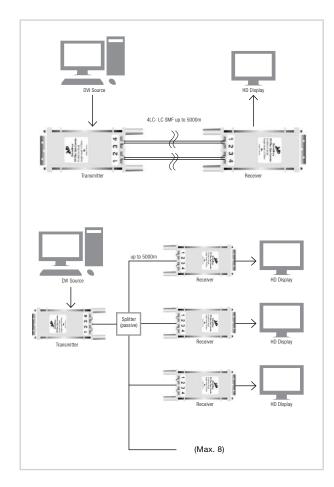
With four fiber optic cables, it provides longer signal tramsmission distance whilst ruling out any RF interference issues characteristic of traditional copper wire cable.

Features:

- Long distance video transmission up to 5 kilometres
- Supports high resolution image quality
- Supports Pseudo DDC detection function for EDID information
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1







| Model No: | ET-DF0101-TG5K | ET-DF0101-RG5K |
|-----------------------|-----------------------------|--------------------------|
| Description | DVI Fiber Optic Transmitter | DVI Fiber Optic Receiver |
| Maximum Resolution | 1920 | x1200 |
| Maximum Length | (1920x1200)-50 | 000m (9/125μ SMF) |
| Input | DVI x 1 | LC x 4 |
| Output | LC x 4 | DVI x 1 |
| DVI Connector | DVI-D (25 | i-pin male) |
| Fiber Optic Connector | LC | Туре |
| Optical Property | 4 channels 1310ni | m @ -4dBm ± 2dB |
| Power Supply | 5v/1A DC | |
| Dimensions | 20(H) x 40(W) x 90(D) mm | |





• ET-IF0101-MG500:

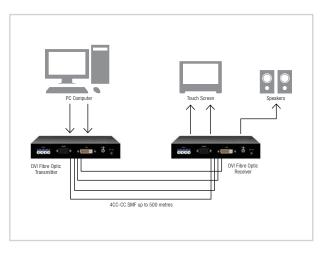
DVI Fiber Optic Extender Kit with RS-232 & Audio (Single-mode LC type)

This DVI-over-Fiber Kit carries a single DVI video signal, plus audio and RS-232 signal for data control, extending the signals over a distance of up to 500 metres!

Features:

- Long distance video, audio and RS-232 signal transmission up to 500 metres
- Supports high resolution image quality
- Supports Pseudo DDC detection function for EDID information
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1





| Model No: | ET-IF0101-TG500 | ET-IF0101-RG500 | |
|-----------------------|--|--|--|
| Description | DVI Fiber Optic Transmitter | DVI Fiber Optic Receiver | |
| Maximum Resolution | 1920 |)x1080 | |
| Maximum Length | , , , | $(1920x1080)\sim 500m~(91/125~SMF)$ (The length difference between these 4 fibers should be <0.5) | |
| Input | DVI-D x 1, RS-232 x 1, Audio Jack x 1 | LC x 4 | |
| Output | LC x 4 | DVI-D x 1, RS-232 x 1, Audio Jack x 1 | |
| DVI Connector | DVI-D (2 | 5-pin male) | |
| Fiber Optic Connector | LC Type | | |
| Optical Property | 4 channels 1310nm @ -4dBm ± 2dB | | |
| Power Supply | 5v/600mA DC | | |
| Dimensions | 180(W) x 30 | O(H) x 87(D) mm | |







AU-11SA: v1.3 HDMI Audio De-embedder with built-in Repeater

The AU-11SA is an advanced solution for HDMI-to-HDMI repeating with Audio de-embedding.

It is compatible with v1.3 HDMI specifications, a cutting edge technology which defines the transfer of deep colour (12 bit) video with a high bandwidth of up to 225MHz.

Connect to source and display (HDMI), select the required audio format and output your chosen audio format to your amplifier.

Features:

- Compliant with v1.3 HDMI, HDCP 1.1 and DVI 1.1 standards
- HDMI audio de-embedder with built-in repeater
- Supports un-compressed digital LPCM 7.1, 5.1 or 2 channels and compressed digital Bitstream (Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio)
- Output resolution follows input resolution up to 1080p. Video pass though, no scaling
- Supports LPCM 7.1, 5.1 or 2 channel output through multichannel analogue output ports
- · Supports CEC bypass
- Supports 3D Signals



| Model: | AU-11SA |
|------------|--|
| Input | 1 x HDMI |
| Output | 1 x HDMI, 4 x 3.5mm stereo jack plugs, 1 x Optical (Toslink) |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 146(D) mm |
| Weight | 0.5kg |





AU-11CA: HDMI Audio Embedder with built-in Repeater

The AU-11CA Audio Embedder lets you insert an external audio signal into any HDMI source.

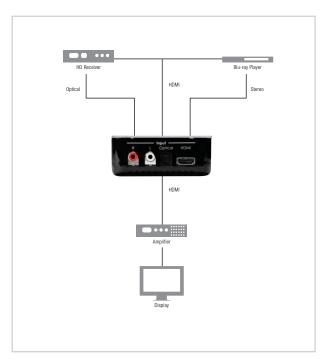
The device allows you to insert analogue or digital stereo and multi-channel digital surround sound signals (via Optical) to give users the capability to overcome audio issues within complex HDMI installation

The AU-11CA also repeats the HDMI signal to allow an extended total HDMI cable range.

Features:

- Compliant with HDMI v1.3 , HDCP 1.2 and DVI 1.0
- Supports Optical Sample Rate up to 96kHz
- Supports LPCM Stereo, DTS and Dolby Digital via Optical input
- Supports up to 24bit resolution digital audio
- HDMI cable distance testing showed that with 1080p 8bit/12bit resolution, the input/output distance is up to 10 meters
- Low power consumption
- Supports HDMI Sample Rates up to 192kHz
- Supports 3D Signals





| Model: | AU-11CA |
|------------|--|
| Input | 1 x HDMI, 1 x Optical, 1 x Analogue Stereo (2 x RCA) |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 85(W) x 35(H) x 85(D) mm |
| Weight | 0.26kg |







• AU-11CD: v1.3 HDMI Audio De-Embedder (5.1) with built-in repeater

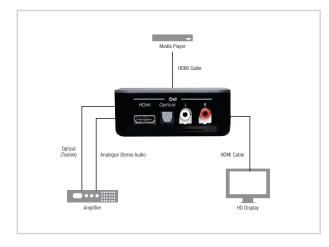
The AU-11CD is an advanced solution for repeating HDMI with integrated Audio de-embedding, up to 5.1.

Connect the AU-11CD between your source and display via HDMI and select the audio format required.

Features:

- Compliant with v1.3 HDMI, HDCP 1.2 and DVI 1.0
- Supports HDMI sample rate up to 192kHz
- Supports Optical sample rate up to 48kHz
- Supports TMDS clock frequency rate 225MHz
- Supports high-bit-rate (HBR) audio
- Input and Output HDMI cable length can run up to 10m at 1080p 8bit resolution
- Low power consumption
- Support built-in audio EDID switch of LPCM2, 5.1/7.1 or Bitstream
- Supports 3D signals





| Model: | AU-11CD |
|------------|---|
| Input | 1 x HDMI |
| Output | 1 x HDMI, 1 x Optical (Toslink), 2 x Analogue Audio L/R (RCA) |
| Power | 5V/1.2A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 90(W) x 35(H) x 85(D) mm |
| Weight | 0.24kg |





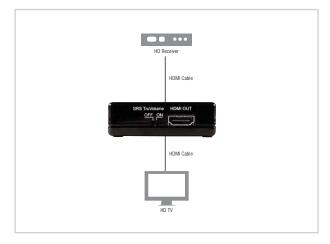
AU-D8S: SRS TruVolume[™] - HDMI Volume Control Processor

The AU-D8S HDMI Volume Control regulates TV-channel volume to your own comfortable audio level, preventing annoying audio fluctuations, especially during commercials or whilst channel surfing.

Features:

- v1.3 HDMI, HDCP 1.1, DVI 1.0 compliant
- SRS TruVolume[™] maintains a steady volume, allowing listeners to set their desired volume once to enjoy television, music and all other content without annoying volume fluctuations
- Helps the hearing impaired by keeping channels at a consistent volume level so they can hear everything whilst keeping others in the room comfortable
- Simple switched operation "On / Off"
- HDMI signal amplification and equalisation for improved signal transmission
- Video signal is bypassed through the AU-D8S and is not processed, output resolution follows input
- · HDCP compliant and supports CEC bypass
- Supports 3D signals





| Model: | AU-D8S |
|------------|---|
| Input | 1 x HDMI |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 100(W) x 20(H) x 70(D) mm |
| Weight | 0.22kg |



• AU-D12: Optical Audio Distribution Amplifier

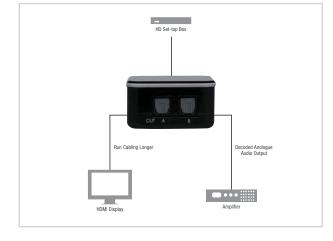
The AU-D12 is a digital audio splitter with 1 Optical (Toslink) input to 2 Optical (Toslink) outputs, maintaining a reliable and loss-less audio signal transmission.

Features:

- 1:2 Optical (Toslink) Distribution Amplifier
- Supports S/PDIF standard of digital audio transmission
- Amplifies Optical (Toslink) output, extending another 5 metres
- Accepts Uncompressed 2-channel LPCM (Linear Pulse Code Modulation)
 & Compressed 2-channel and multi-channel Dolby and DTS audio signal
- Electromagnetic noise-free transmission







| Model: | AU-D12 |
|------------|---|
| Input | 1 x Optical (Toslink) |
| Output | 2 x Optical (Toslink) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 45(D) mm |
| Weight | 0.14kg |



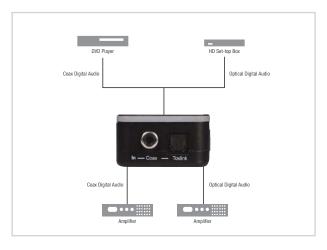
AU-D2: Digital Audio Coaxial/Optical Converter

The AU-D2 is a versatile digital audio converter, either coaxial to optical or optical to coaxial. Simply select one of the digital audio inputs for two identical audio signals in both output formats.

Features:

- Digital Audio Coaxial/Optical bi-directional Converter
- Two-way conversion; Coaxial-to-Optical or Optical-to-Coaxial
- Supports amplification of digital audio and extends the transferring distance through coaxial and/or optical cables
- Inputs accept audio signals from 2-channel PCM to 5.1. Output signal follows input signal
- Select between input ports and distribute the audio signal to both Coaxial and Optical output ports simultaneously





| • | |
|------------|---|
| Model: | AU-D2 |
| Input | 1 x Coaxial (RCA), 1 x Optical (Toslink) |
| Output | 1 x Coaxial (RCA), 1 x Optical (Toslink) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 55(D) mm |
| Weight | 0.16kg |



AU-D3: Digital to Analogue Audio Converter (DAC)

The AU-D3 is designed to convert either Coaxial or Optical digital signals to analogue stereo audio.

This unit is particularly useful when connecting digital TVs to analogue amplifiers.

Features:

- Digital Audio to Stereo Audio Converter (DAC)
- Integrated digital interpolator filter
- Supports digital audio signal (Coaxial/Toslink) input and analogue audio signal (L/R) output
- Accepts uncompressed digital stereo audio input
- Accepts 32, 44.1, 48 and 96kHz sample rates



Optical Digital Audio

| Model: | AU-D3 |
|------------|---|
| Input | 1 x Optical (Toslink) & 1 x Coaxial (RCA) |
| Output | 2 x Analogue Audio L/R (RCA) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 55(D) mm |
| Weight | 0.16kg |

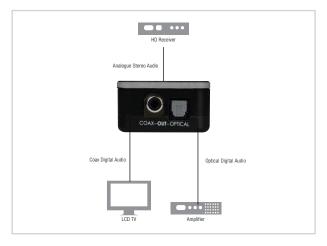
• AU-D4: Analogue-to-Digital Audio Converter

The AU-D4 is designed to convert analogue stereo audio to Digital Coaxial and/or Optical (Toslink) outputs simultaneously.

Features:

- Analogue-to-Digital Audio Converter (ADC)
- Uncompressed 2-channel LPCM digital audio signal output
- Amplifies digital Optical (Toslink) output, extending another 5 metres
- Output sampling rate: 48kHz
- Electromagnetic noise-free transmission





| • | |
|------------|---|
| Model: | AU-D4 |
| Input | 2 x Analogue Audio L/R (RCA) |
| Output | 1 x Coaxial (RCA), 1 x Optical (Toslink) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 55(D) mm |
| Weight | 0.16kg |



AU-D4T: Analogue-to-Digital Audio Converter with Audio Delay

The AU-D4T is designed to convert analogue stereo audio to digital Coaxial and/or Optical (Toslink) outputs simultaneously with the addition of integrated Audio delay controls.

Features:

- Audio delay technology provides a 150 metres delay on audio output for the user to compensate for lip sync (or AVV sync)
- Uncompressed 2-channel LPCM (Linear Pulse Code Modulation) digital audio signal output
- Amplifies digital optical (Toslink) output, extending signal range by an additional 5 metres
- Output sampling rate: 48kHz
- Simple switched operation ON/OFF
- Electromagnetic noise-free transmission



Optical Digital Audio

| Model: | AU-D4T |
|------------|---|
| Input | 2 x Analogue Audio L/R (RCA) |
| Output | 1 Coaxial (RCA) & 1 x Optical (Toslink) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 50(W) x 25(H) x 65(D) mm |
| Weight | 0.16kg |

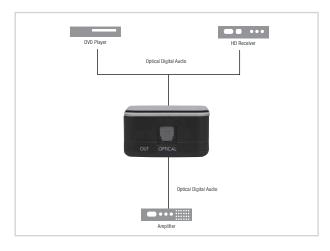
• AU-D21: Optical Audio Switcher

The AU-D21 is a Optical (Toslink) switcher, select between two Optical (Toslink) sources to one Optical (Toslink) output whilst maintaining a reliable and loss-less audio signal transmission.

Features:

- 2:1 Optical (Toslink) Switcher
- Supports S/PDIF standard of digital audio transmission
- Amplifies digital Optical (Toslink) output, extending another 5 metres
- Accepts uncompressed 2-channel LPCM (Linear Pulse Code Modulation), compressed 2-channel, multi-channel Dolby, and DTS audio signal
- Electromagnetic noise-free transmission





| • | |
|------------|---|
| Model: | AU-D21 |
| Input | 2 x Optical (Toslink) |
| Output | 1 x Optical (Toslink) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 45(D) mm |
| Weight | 0.14kg |



• AU-D9: Bi-Directional Digital/Analogue Audio Converter

The AU-D9 is a versatile audio converter allowing users to convert analogue audio into digital or digital audio into analogue.

It can simultaneously output in all 3 audio formats without any signal loss.

Features:

- Bi-directional Digital/Analogue Audio Converter
- Three-way conversion: Coaxial to Optical & Analogue; Optical to Coaxial & Analogue; Analogue to Optical & Coaxial
- Integrated digital interpolator filter and Digital-to-Analogue Converter (DAC)
- Accepts uncompressed digital stereo audio input
- Supports sample rates from 16 ~ 100kHz
- Simultaneous digital and analogue audio outputs
- Provides electromagnetic-noise-free transmission





| Model: | AU-D9 |
|------------|--|
| Input | 1 x Coaxial (RCA), 1 x Optical (Toslink), 2 x RCA (Left/Right Audio) |
| Output | 1 x Coaxial (RCA), 1 x Optical (Toslink), 2 x RCA (Left/Right Audio) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 95(W) x 35(H) x 85(D) mm |
| Weight | 0.2kg |





AU-D150: USB/Optical Digital Audio Converter (DAC)

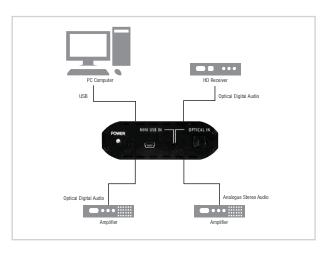
USB/Optical Digital Audio Converter (DAC) will convert a digital audio signal to analogue, whilst simultaneously outputting a digital optical signal. It is designed for easy installation of USB or optical sources and can be powered by USB or via the included PSU.

The optical output can be linked with an amplifier or any sound system with optical SPDIF input, whilst the analogue stereo output can be connected to a TV or amplifier/speakers, for a simultaneous analogue stereo output.



Features:

- USB 2.0 full speed compatible
- USB/Optical Digital Audio Converter (DAC)
- USB audio device class specification v1.0 Compatible
- Optical sampling rate supports up to 192kHz, 24bit
- USB Audio Support High performance 16-bit Stereo, 48/44.1kHz sampling rate
- Low power consumption
- USB or PSU powered (PSU supplied)
- Simultaneous analogue & optical stereo output



| • | |
|------------|---|
| Model: | AU-D150 |
| Input | 1 x Mini USB, 1 x Optical (Toslink) |
| Output | 2 x Analogue L/R, 1 x Optical (Toslink) |
| Power | 5v DC - PSU Supplied or USB Cable powered |
| Dimensions | 90(W) x 25(H) x 120(D) mm |
| Weight | 0.3kg |



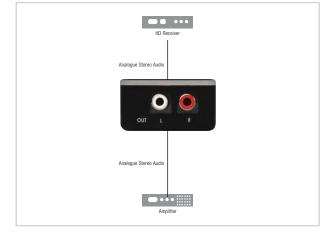
AU-D6S: SRS TruVolume™ -Volume Control Processor

The AU-D6S Volume Control regulates TV-channel volume to your own comfortable audio level, preventing audio fluctuations whilst changing channels and reducing fluctuations during commercials.

Features:

- SRS TruVolume™ maintains a steady volume, allowing listeners to set their desired volume once to enjoy television, music and all other content. without volume fluctuations
- Helps the hearing impaired by keeping channels at a consistent volume level so they can hear everything whilst keeping others in the room comfortable
- Simple switched operation "On / Bypass"
- Line Level inputs up to 2Vrms and Line Level outputs up to 1Vrms, via stereo RCA jacks
- Boosts low and high frequency content dynamically (20 bands/channel) using an advanced psycoacoustic modelling engine, making the entire listening experience come alive, regardless of the audio level





| Model: | AU-D6S |
|------------|---|
| Input | 2 x Analogue Audio L/R (RCA) |
| Output | 2 x Analogue Audio L/R (RCA) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 55(D) mm |
| Weight | 0.16kg |

AU-D11S: SRS TruVolume™ - SCART Volume Control Processor

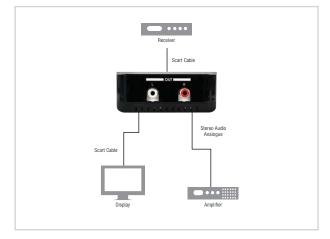
The AU-D11S SCART Volume Control Processor regulates TV-channel volume to your own comfortable audio level, preventing annoying audio fluctuations, especially during commercials or whilst channel surfing.

This product will output the video and processed audio via SCART, whilst simultaneously outputting the same processed audio via analogue audio RCA connections.

This is perfect for sending the processed audio to both the screen and a second location, such as an analogue audio amplifier.

- SRS TruVolume™ maintains a steady volume, allowing listeners to set without annoying volume fluctuations
- Helps the hearing impaired by keeping channels at a consistent volume level so they can hear everything whilst keeping others in the room comfortable
- Simple switched operation "On / Off"
- Line Level inputs up to 2Vrms and Line Level outputs up to 1Vrms
- Input via SCART, outputs via SCART and stereo RCA jacks
- Boosts low and high frequency content dynamically (20 bands/channel) using an advanced psychoacoustic modelling engine, making the entire listening experience come alive, regardless of the audio level
- · SCART video signal bypassed to SCART output





| Model: | AU-D11S |
|------------|---|
| Input | 1 x Scart |
| Output | 1 x Scart, 2 x Analogue Audio L/R (RCA) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 85(W) x 35(H) x 85(D) mm |
| Weight | 0.2kg |



AU-D41: 4-to-1 Digital Optical Audio Switcher with IR Remote

The AU-D41 Optical Audio Switcher has four optical inputs and one optical output.

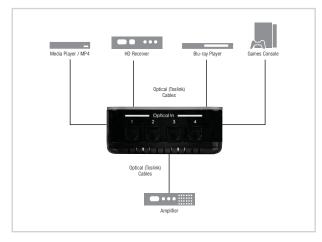
This device allows users with multiple optical sources connection for one output display. All signals are bypassed without delay.

The device has last memory function and IR remote control.

Features:

- 4 input digital optical audio switcher
- Optical sampling rate supports up to 192kHz
- Up to 24bit resolutions
- Low power consumption
- PCM2, AC3/5.1, Dolby 5.1 & DTS 5.1 pass through
- Amplifies Optical (Toslink) output, extending another 5 metres





Specifications:

| Model: | AU-D41 |
|------------|---|
| Input | 4 x Optical (Toslink) |
| Output | 1 x Optical (Toslink) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 85(W) x 85(H) x 85(D) mm |
| Weight | 0.2kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075

• AU-D18: Analogue Stereo Lip Sync Corrector

This analogue stereo Lip Sync Corrector is a small device for delaying audio signal to overcome audio sync issues.

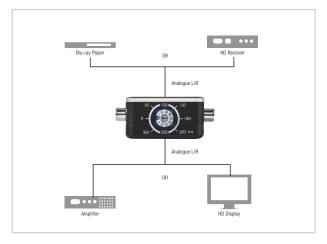
The AU-D18 Lip Sync corrector is able to adjust the timing to the display/amplifier so that users may receive both video and audio in sync. No more annoying sound mismatch.

The Lip Sync Corrector is easy to use with a simple setup and an affordable unit for sound delaying.

Features:

- Lip Sync corrector with adjustable delay between 0 & 300ms
- Sample Rates 48kHz
- Analogue to analogue signal bypass
- Low power consumption





| • | |
|------------|---|
| Model: | AU-D18 |
| Input | 2 x Analogue Audio (L/R stereo) |
| Output | 2 x Analogue Audio (L/R stereo) |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 45(W) x 25(H) x 45(D) mm |
| Weight | 0.14kg |







EL-5300: Multimedia Converter, De-Interlacer & Switcher

The EL-5300 allows the user to convert, de-interlace and switch all their analogue and digital devices to HDMI.

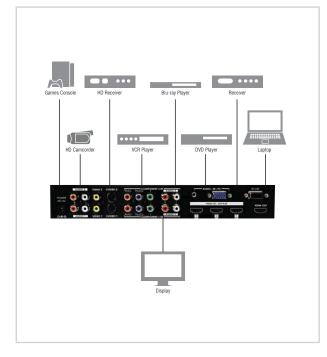
All standard definition inputs can be de-interlaced for compatibility with all HDMI displays.

The EL-5300 has the additional benefit of RS-232 control.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Multimedia Converter, De-Interlacer & Switcher
- Supports a wide range of PC and HDTV resolutions from VGA to SXGA @ 60Hz and 480i ~ 1080p, including 1080p 24fps
- Accepts a variety of analogue/digital video & audio inputs
- Format conversion from 480i/576i to 480p/576p (de-interlaced)
- RS-232 & IR remote control
- Supports 150ms audio delay. (NOTE: This feature will not function when input is from HDMI source)
- 3D noise reduction (DNR) & Comb Filtering
- Supports 3D signals





| Model: | EL-5300 |
|------------|--|
| Input | 3 x HDMI, 1 x 15 pin D-sub + 1 x 3.5 mm Stereo Audio Jack, 2 x Y/Pb/Pr with R/L Audio, 2 x CV/SV with R/L Audio, 1 x RS- 232 |
| Output | 1 x HDMI |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 280(W) x 48(H) x 150(D) mm |
| Weight | 0.94kg |





• CHDD-41AR: 4-to-1 Component Switcher

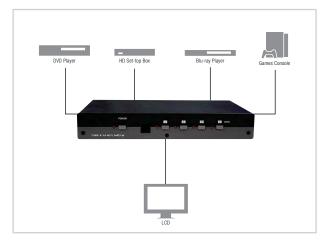
The CHDD-41AR HD/SD switcher is designed for switching between various HD and SD sources for sharing one TV display.

Simply by pressing a button on the remote control you can select your desired HD/SD source for display on the TV monitor.

Features:

- Component/Composite Switcher
- Ideal for home theatre and presentation application
- High bandwidth performance 650MHz at -3dB
- IR remote control
- Easy to install and operate; plug and play solution gets to work immediately
- CHDD-41AR can be controlled either through input selection button on the front panel or using included infrared control
- RS-232 interface allows control from a distant device
- Supports HDTV high resolution: 480i, 576i, 576p, 720p, 1080i and 1080p
- Supports audio formats: S/PDIF (digital) and L/R (analog)





| Model: | CHDD-414R |
|------------|--|
| Inputs | 4 sets - 3 x RCA + 2 x RCA Stereo Audio + 1 x RCA (S/PDIF) |
| Outputs | 1 set - 3 x RCA + 2 x RCA Stereo Audio + 1 x RCA (S/PDIF) |
| Power | 5v DC/2A |
| Dimensions | 292(W) x 47.5(H) x 176(D) mm |
| Weight | 1.7kg |





OR-YUV44S: Component 4 x 4 Matrix Switcher with Digital Audio

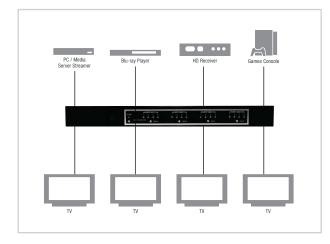
A high performance Component Video with Digital/Analogue Audio Matrix.

Each of the four HDTV audio/video sources can be directed to any one of the four outputs or all four displays can show one identical input source at the same time.

The OR-YUV44S also has the additional benefit of RS-232 control.

- Provides 4 x 4 matrix input/output of Component video (YPbPr/YCbCr) and Left/Right stereo & Coaxial digital audio signal
- Component 4 x 4 Matrix Switcher with Digital Audio
- Supports high resolution input/output:
 HDTV: 480i, 576i, 480p, 576p, 1080i, and 1080p
- Buffered video and audio output
- IR remote control plus RS-232 control





| Model: | OR-YUV44S |
|------------|--|
| Input | 4 x Component (YPbPr/YCbCr), + Coaxial & L/R Audio, 1 x IR Extender |
| Output | 4 x Component (YPbPr/YCbCr), + Coaxial & L/R Audio |
| Power | 12v/1.25A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 435(W) x 48(H) x 125(D) mm |
| Weight | 1.12kg |



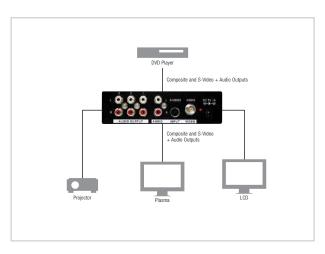
CVSD-3A: 1-to-3 Composite & S-Video + Audio Distribution Amplifier

A versatile combination unit offering composite video or S-Video plus stereo audio input delivering three buffered and isolated outputs.

However, if the composite video and the S-Video are from the same source, the unit then becomes a 1-in, 6-out distributor!

Features:

- Composite & S-Video compatible
- Separate audio connections
- Can be utilised as a six way amp



CVSD-JA Video distributor OUTPUTS VIDEO 1 S-VIDEO 1 VIDEO 2 S-VIDEO 2 VIDEO 3 S-VIDEO 3

Specifications:

| Model: | CVSD-3A |
|------------|-----------------------------------|
| Inputs | 1 x CV, 1 x SV, 2 x RCA L/R Audio |
| Outputs | 3 x CV, 3 x SV, 3 sets L/R audio |
| Power | 5v 2A |
| Dimensions | 141(W) x 38(H) x 105(D) mm |
| Weight | 0.42kg |

• SCAMP-2: Active Scart Splitter

The SCAMP2 provides two equal scart outputs from any video source. It's perfect for connecting the output of any DVD or Satellite/Cable receiver when you need to retain an equal signal and feed to two separate monitors.

Works with RGB, S-Video, composite Video + Stereo Audio signals. Complete with DC power supply.

Features:

- Ideal for connecting output of any Digibox or DVD to two RGB TVs or monitors
- Full active circuitry no signal loss
- Stereo audio, Composite video, S-Video and RGB compatible



| Model: | SCAMP-2 |
|------------|---------------------------|
| Inputs | 1 x Scart female port |
| Outputs | 2 x Scart female ports |
| Power | DC 7.5V. 300mA |
| Dimensions | 125(W) x 75(D) x 35(H) mm |
| Weight | 0.14kg |



CHDD-3C: 1-to-3 YUV + Audio Distribution **Amplifier**

Multi-functional distribution amplifier, which can deliver both high definition and standard video signals including audio (with a choice of analogue or digital audio) to three displays.

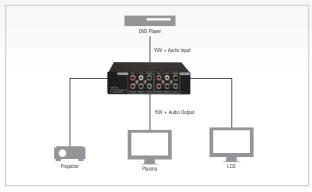
It will accept both standard component (YCbCr) and progressive component (YPbPr), RGBHV (red, green, blue + horizontal and vertical sync) via RCAs, standard composite.

Choice between stereo audio input or digital coaxial.

Features:

- Supports resolutions up to 1080p/UXGA
- Component/composite or RGB distribution amplifier
- Supports SD (Composite, YCbCr) and HDTV (YPbPr, RGsB) Input signal
- Accepts one component input and splits the input to 3 identical and buffered outputs
- Adjustable image scaling: Pan, Position and Zoom
- When input is composite video, it can connect up to 3 different video sources and output three identical and buffered signals for each video input
- · Audio supported via SP/DIF





Specifications:

| Model: | CHDD-3C |
|------------|--|
| Inputs | 3 x RCA (YUV), 2 x L/R Audio & 1 x coxial |
| Outputs | 3 sets of 3 x RCA (YUV), 3 sets of L/R Audio & 3 x coaxial |
| Power | 5v DC/2A |
| Dimensions | 141(W) x 38(H) x 105(D) mm |
| Weight | 0.55kg |

CHDD-8C: 1-to-8 YUV + Audio Distribution **Amplifier**

Multi-functional distribution amplifier which can deliver both high definition and standard video signals including audio (with a choice of analogue or digital audio) to three displays.

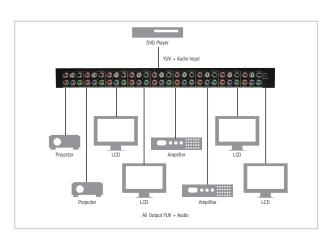
It will accept both standard component (YCbCr) and progressive component (YPbPr), RGBHV (red, green, blue + horizontal and vertical sync) via RCAs, standard composite.

Choice between stereo audio input or digital coaxial.

Features:

- Supports resolutions up to 1080p / UXGA
- Component/composite or RGB distribution amplifier
- Supports SD (Composite, YCbCr) and HDTV (YPbPr, RGsB) Input signal
- Accepts one component input and splits the input to 3 identical and buffered outputs
- · Adjustable image scaling: Pan, Position and Zoom
- When input is composite video, it can connect up to 3 different video sources and output three identical and buffered signals for each video input
- · Audio supported via SP/DIF





| Model: | CHDD-8C |
|------------|--|
| Inputs | 3 x RCA (YUV), 2 x L/R Audio & 1 x coaxial |
| Outputs | 8 sets of 3 x RCA (YUV), 3 sets of L/R Audio & 8 x coaxial |
| Power | 5v DC/2A |
| Dimensions | 437(W) x 47(H) x 170(D) mm |
| Weight | 2.9kg |





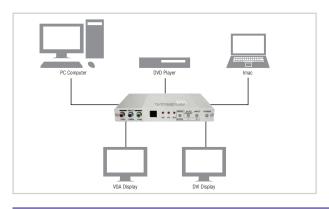


CP-255D: YUV/PC to DVI Scaler/Converter

Convert YPbPr/YCbCr/VGA/DVI-D to DVI (UXGA & 1080p). Upscale digital/analogue video signal from HD Component, PC and DVI input sources to DVI offering a wide-range of HDTV and PC resolutions, up to 1080p and WUXGA.

Features:

- HDCP 1.1 and DVI 1.0 compliant
- Scales any PC (VGA ~ WUXGA) /HD (480i to 1080p) resolutions up to 1080p DVI
- Automatically detect the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected
- Under/Over Scan function
- OSD Menu provides a choice of output resolutions, and picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio size



PC/HD to DVI Lination MENU AUTO INPUT POWER @ 3 HD PC DVI

Specifications:

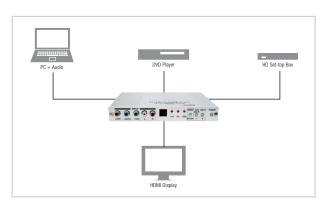
| Model: | CP-255D |
|------------|---|
| Inputs | 1 x YUV (3 x RCA),1 x 15pin D-Sub,1 x DVI |
| Outputs | 1 x DVI Female Port, 1 x 15pin D-Sub |
| Frequency | Bandwidth 1.65Gbps (single link) |
| Power | 5v DC/2.6 Amp |
| Dimensions | 180(W) x 124(D) x 25(H) mm |
| Weight | 0.6kg |

• CP-255H: YUV/PC to HDMI Scaler/Converter

Convert YPbPr/YCbCr/VGA/HDMI to HDMI (UXGA & 1080p). Upscale digital/analogue video signal from HD Component, PC and HDMI input sources (with independent audio on each), to HDMI offering a product of the control of t wide-range HDTV and PC resolutions, up to 1080p and WUXGA.

Features:

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- Scales any PC (VGA ~ WUXGA) /HD (480i to 1080p) resolutions up to 1080p HDMI
- Automatically detect the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected
- Under/Over Scan function
- OSD Menu provides a choice of output resolutions, and picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio size
- · Remote control





| opeomodiene: | |
|---------------------|--|
| Model: | CP-255H |
| Inputs | 1 x YUV (3 RCAs) + 1 x Audio L/R (RCAs), 1 x 15pin D-Sub , 1 x 3.5mm st. Jack, 1 x HDMI, 1 x 3.5mm Stereo Jack |
| Outputs | 1 x HDMI Female Port |
| Frequency Bandwidth | 1.65Gbps (single link) |
| Power | 5v DC/2.6 Amp |
| Dimensions | 180(W) x 25(H) x 124(D) mm |
| Weight | 0.6kg |





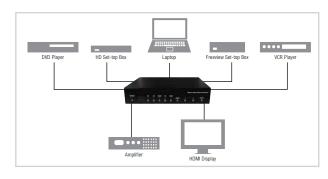
CP-255I: Analogue to HDMI Scaler/Converter

Multi-analogue inputs to HDMI (UXGA & 1080p). Upscale digital/analogue video signal from Composite, S-Video, PC, Component (HD) and HDMI input sources, to digital HDMI offering a wide-range HDTV and PC resolutions, up to 1080p and WUXGA plus digital/analogue audio signal conversion to digital audio format, outputting as Digital coaxial or combining with the HDMI output.



Features:

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- Scales any PC (VGA to WUXGA) /HD (480i to 1080p) resolutions up to 1080p HDMI
- Automatically detect the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected
- Supports 50/60Hz frame rate conversion
- OSD Menu provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio size
- Remote control



Specifications:

| Model: | CP-255I |
|---------------------|--|
| Inputs | 1 x YUV (3 RCAs) 1 x S-Video, 1 x CV, + 3 x Audio L/R (RCAs), 1 x 15pin D-Sub, 1 x 3.5mm st. Jack, 1 x HDMI, 1 x 3.5mm Stereo Jack x 1 (for DVI), 1 x Coaxial (S/PDIF) |
| Outputs | 1 x HDMl x 1 + 1 x Coaxial (S/PDIF) |
| Frequency Bandwidth | 1.65Gbps (single link) |
| Power | 5v DC |
| Dimensions | 215(W) x 47(H) x 154(D) mm |
| Weight | 1kg |

CP-259H: Up/Down HDMI Scaler/Converter

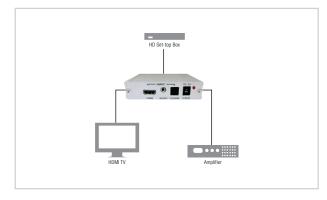
Scale up/down HDMI to display's native resolution. A solid HDMI to HDMI up and downscaling unit with in-built repeater.

It will take any resolution of HDMI input up to 1080p, converting 50/60Hz with selectable HDMI output up to 1080p.

Features:

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- OSD Menu to select output resolution & picture adjustment
- Support digital audio format (Toslink) and L/R stereo
- Built in frame-buffer circuit for supporting 50/60Hz frame rate conversion





| Model: | CP-259H |
|---------------------|--|
| Inputs | 1 x HDMI female port, 1 x Toslink + 1 x 3.5mm stereo jack plug |
| Outputs | 1 x HDMI female port, 1 x Toslink + 1 x 3.5mm stereo jack plug |
| Frequency Bandwidth | 1.65Gbps (single link) |
| Power | 5v DC, 2.6A DC |
| Dimensions | 102(W) x 25(H) x 145(D) mm |
| Weight | 0.6kg |





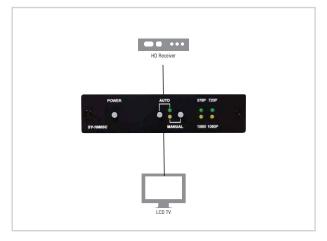
• SY-1080SC: Scart-to-HDMI Scaler

The Synergy range of format converters provide solutions across the board in home and professional installation scenarios. The SY-1080SC scaler will take any SCART signal input and convert and scale up to 1080p HDMI output.

Features:

- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Automatic resolution selection and individual resolution selection button - from 576p up to 1080p
- Input video systems NTSC3.58 / PAL / RGB 50Hz / RGB 60Hz auto-detection
- Analogue stereo audio input (from Scart)
- Automatic lip-sync (audio delay) ensures audio video synchronisation
- Supports Deep Colour (10 & 12 bit) at HDMI output
- Digital, Block & MPEG Noise reduction
- High Quality Image Enhancer (HQE) function





| Model: | SY-1080SC |
|------------|--|
| Input | 1 x RGB Scart |
| Output | 1 x HDMI |
| Power | 5v/2.6A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 151(W) x 30(H) x 125(D) mm |
| Weight | 0.34kg |





SY-P290: PC/DVI-to-HDMI Converter

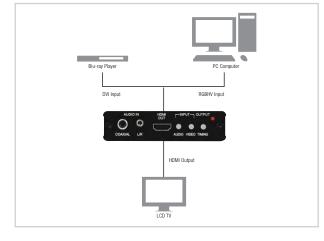
The SY-P290 is designed to convert and scale Digital or Analogue RGBHV or YUV to HDMI for improved viewing.

This unit offers a wide selection of output resolutions/formats, colour space and adjustment to obtain the best picture quality.

Features:

- $\bullet\,$ v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Resolutions supported:
 Input; PC VGA to WUXGA; HDTV 480i to 1080p
 Output; PC XGA & UXGA; HDTV 720p & 1080p
- Audio Support: Input Analogue stereo & Coax, PCM Stereo, DTS & Dolby Digital; Output Follows Input
- Scale analogue RGBHV/YUV and/or DVI/HDMI resolutions to XGA/UXGA/720p/1080p
- Direct push button controls for Audio, Video & Timing





| Model: | SY-P290 |
|------------|--|
| Input | 1 x 15-Pin D-sub (RGBHV), 1 x DVI-D, 1 x Coaxial Audio (RCA), 1 x 3.5mm Stereo Audio Jack |
| Output | 1 x HDMI |
| Power | 5v/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 160(D) mm |
| Weight | 0.44kg |

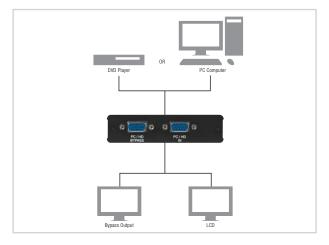
• SY-P291: PC/HD to PC/HD Scaler Converter with Bypass Output

The SY-P291 is designed to convert and scale analogue PC/HD inputs offering a wide range of PC/HD resolutions and adjustments to obtain the best picture quality.

Features:

- RGBHV, YPbPr & YCbCr compatible
- Resolutions Supported:
 PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA
 SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- On Screen Menu with push button control
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Bypass output mirrors input





| • | |
|------------|---|
| Model: | AU-D4 |
| Input | 1 x PC (15 pin D-sub) |
| Output | 1 x PC (15 pin D-sub) |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 160(D) mm |
| Weight | 0.46kg |





• SY-P293: PC to HDMI Scaler Converter with Audio

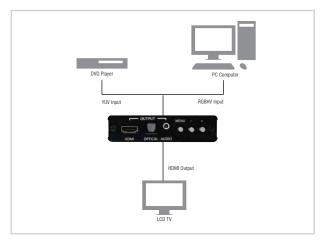
The SY-P293 is designed to scale analogue video signal from a PC source to a digital HDMI output boasting a wide-range of HDTV and PC resolutions. Audio is combined with HDMI video output.

This unit offers a selection of colour space and adjustment to obtain the best picture quality.

Features:

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Scales any PC resolutions to PC or HDTV resolutions
- Resolutions Supported:
- PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA
- SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- Audio Support: Analogue Stereo, Digital stereo PCM, DTS, and Dolby Digital. Simply select from the audio input source this is then outputted to HDMI, Optical (Toslink), and mini-jack (stereo only) simultaneously
- On Screen Menu with push button control
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size





| Model: | SY-P293 |
|------------|--|
| Input | 1 x 15 Pin D-sub (RGBHV), 1 x 3.5mm Stereo Audio Jack 1 x Optical (Toslink) |
| Output: | 1 x HDMI, 1 x 3.5mm Stereo Audio Jack, 1 x Optical (Toslink) |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 154(D) mm |
| Weight | 0.7kg |





SY-P294: Component (YUV) to HDMI Converter Scaler with Audio

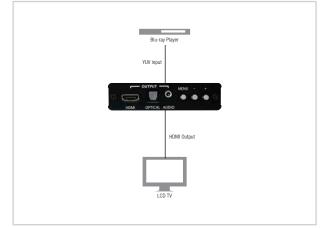
The SY-P294 is designed to scale analogue video signals from a YUV source to a digital HDMI output boasting a wide-range of HDTV and PC resolutions. Audio is combined with HDMI video output.

This unit offers a selection of colour space and adjustment to obtain the best picture quality.

Features:

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Scales any YUV resolution to PC or HDTV resolutions
- Resolutions Supported:
 - PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA
 - SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- Audio Support: Analogue Stereo, Digital stereo PCM, DTS, and Dolby Digital. Simply select from the audio input source, this is then outputted to HDMI, Optical (Toslink) and mini-jack (stereo only) simultaneously
- A comprehensive OSD menu provides picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Automatic detection of the connected screens factory setting, matching the resolution and refresh rate, when the NATIVE output is selected





| Model: | SY-P294 |
|------------|--|
| Input | 1 x YUV (3 x RCA), 1 x 3.5mm Phono jack, 1 x Optical (Toslink) |
| Output | 1 x HDMI, 1 x 3.5mm Phono jack, 1 x Optical (Toslink) |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 154(D) mm |
| Weight | 0.7kg |





SY-P295N: Analogue to HDMI Converter Scaler with Audio

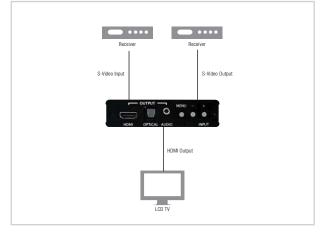
The SY-P295N is designed to scale analogue video signals from a CV or SV source to a digital HDMI output, boasting a wide-range of HDTV and PC resolutions. Audio is combined with HDMI video output.

This unit offers a selection of colour space and adjustment options to obtain the best picture quality.

Features:

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- Video Support: Input PAL & NTSC
- Resolutions Supported:
- PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA
- SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- Audio Support: Analogue Stereo, Digital stereo PCM, DTS, and Dolby Digital. Simply select from the audio input source, this is then outputted to HDMI, Optical (Toslink), and mini-jack (stereo only) simultaneously
- A comprehensive OSD menu provides picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Automatic detection of the connected screens factory setting, matching the resolution and refresh rate, when the NATIVE output is selected





| Model: | SY-P295N |
|------------|--|
| Input | 1 x S-Video, 1 x Composite Video, 1 x 3.5mm Stereo Audio Jack 1 x Optical (Toslink) |
| Output | 1 x HDMI, 1 x 3.5mm Stereo Audio Jack, 1 x Optical (Toslink) |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 187(D) mm |
| Weight | 0.68kg |

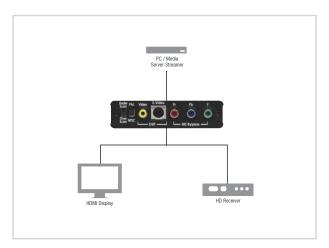
• SY-PT387: Analogue HD Down-Scaler with Bypass Output

The SY-PT387 converts HD Component Video (YPbPr) to Composite or S-video signals for recording and distributing whilst maintaining the analogue HD for the main display.

Features:

- PAL & NTSC compatible
- Analogue HD Down-Scaler with Bypass Output
- Video Support: HD Component input (YPbPr) up to 1080p
- Composite and S-video simultaneous outputs
- Image Overscan/Underscan selection
- Output switched between NTSC/PAL





| • | |
|------------|--|
| Model: | SY-PT387 |
| Input | 1 x Component (Y/Pb/Pr) |
| Output | 1 x Composite, 1 x S-Video, 1 x Component bypass (Y/Pb/Pr) |
| Power | 5v/2A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 102(W) x 25(H) x 154(D) mm |
| Weight | 0.7kg |

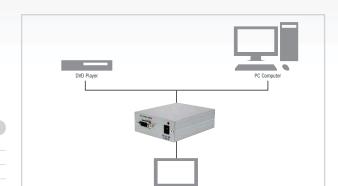




CP-261D: PC/YUV to DVI Format Converter

Add a DVI output to an analogue video source. Convert the analogue RGBHV from your PC or the HD Progressive Scan Component Signal from your HD player for video only to a digital DVI format signal.

- Improves picture quality by utilizing the new digital video interface
- Accepts both PC VGA and YPbPr signal source
- Output format selectable between RGB amd YPbPr
- Output in both digital and analog format
- Easy to install



Specifications:

| Model: | CP-261D |
|------------|--------------------------------------|
| Inputs | 1 x HD, 15pin D-sub (RGBHV or YPbPr) |
| Outputs | DVI-I |
| Power | 5v 1A Centre-positive |
| Dimensions | 76(W) x 30(H) x 105(D) mm |
| Weight | 0.52kg |

CP-260D: YUV to DVI-I Converter

The YPbPr to DVI-I format converter converts analogue YPbPr signal to digital DVI signal. For connecting a YPbPr output from Video equipment to a DVI input of a monitor or projector.

Its high bandwidth capability supports a wide range of PC and HDTV resolutions.

Features:

- Select digital output format between RGB and YPbPr
- Supports up to 1600 x 1200 @ 60 for PC input and 1920 x 1080p @ 60 for HD input
- Supports DDWG standard for DVI complaint monitors



Specifications:

| Model: | CP-260D |
|------------|--------------------------------------|
| Inputs | Analogue YPbPr on 3 x RCA connectors |
| Outputs | 1 x DVI-I connector |
| Power | 5v 500mA ~ 2A centre-positive |
| Dimensions | 76(W) x 30(H) x 105(D) mm |

CP-264: RGBHV to YPbPr Colour Space Converter

A RGBHV to YPbPr Colour Space Converter enabling viewing a PC graphic image on a HDTV via YPbPr connection.

Since the input signal is not scaled, the signal timing of Input and output are the same.

Features:

- To view PC image on component HDTV
- Compatible with both interlaced and progressive RGB input
- · Output follows Input



| Model: | CP-264 |
|------------|---|
| Inputs | 1 x 15pin D-Sub (RGBHV) |
| Outputs | 1 x Component video (YPbPrY with composite sync, H+V composite sync) on 4 RCAs |
| Power | 5v 2A centre +, 100 ~ 240v AC, 50 ~ 60Hz |
| Dimensions | 50(W) x 23(H) x 52(D) mm |
| Weight | 0.18kg |





• CP-251F: VGA/PC to DVI Scaler/Converter

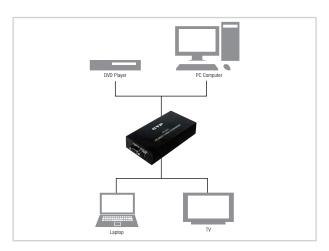
VGA (RGBHV) or YUV (YPbPr/YCbCr) to DVI. Convert & scale up PC & interlaced or progressive scan component signals to DVI.

Auto detection of input resolution, offering a selectable range of output resolutions.

Features:

- Full OSD Menu
- Under-scan function to ensure full-screen picture availability
- · Adjustment of clock and phase
- Controls inc: input/output set-up, picture & H/V phase adjustment, fine tuning, etc
- Resolutions range from VGA to WXGA & 480p to 1080i





| Model: | CP-251F |
|------------|---------------------------|
| Inputs | PC/HD (15 pin Dsub) |
| Outputs | PC/HD (15 pin Dsub) |
| Power | 5v 2A |
| Dimensions | 75(W) x 30(H) x 140(D) mm |
| Weight | 0.3kg |







• CP-267S: HDMI to DVI Converter with Audio

Convert HDMI to DVI with Digital Audio Breakout.

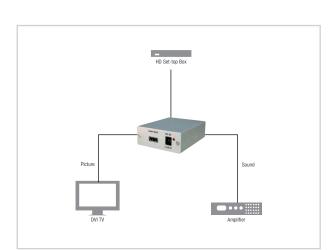
The CP-267S is an improved model converting digital HDMI to a DVI and Coaxial output up to 1080p. It enables you to connect your HDMI source to a DVI digital display and digital audio receiver.

With its built-in signal amplifier and equalisation for incoming TMDS data, it ensures that the output signal is of optimal quality.

Features:

- Compliant with HDMI 1.2, HDCP 1.1, & DVI 1.0
- Input format detection: Digital RGB or YPbPr
- Digital audio output supports PCM, Dolby Digital and DTS





| Model: | CP-267S |
|------------|--|
| Inputs | 1 x HDMI |
| Outputs | 1 x DVI-I (RGB or YPbPr pass through), 1 x Coax (S/PDIF) |
| Power | 5v/1A (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 105(W) x 30(H) x 76(D) mm |
| Weight | 0.19kg |







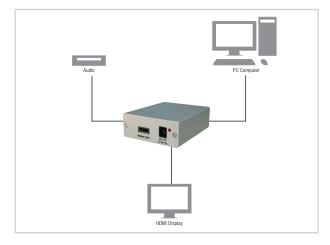
• CP-268S: DVI to HDMI Converter with Audio

The CP-268S is an improved model converting digital DVI to a HDMI signal whilst combining the Coaxial Audio input at resolutions up to 1,080p. It enables you to connect your DVI source to a HDMI digital

With its built-in signal amplifier and equalisation for incoming TMDS data, it ensures that the output signal is of optimal quality.

- Compliant with HDMI 1.2, HDCP 1.1, & DVI 1.0
- Input format detection: Digital RGB or YPbPr
- Digital audio input supports PCM, Dolby Digital and DTS





| Model: | CP-268S |
|------------|--|
| Inputs | 1 x DVI-I (RGB or YPbPr pass through), 1 x Coax (S/PDIF) |
| Outputs | 1 x HDMI |
| Power | 5v/1A (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 105(W) x 30(H) x 76(D) mm |
| Weight | 0.19kg |





Convert any YUV & Toslink (Digital Audio) signal to HDMI. Output resolution follows input (i.e the same resolution will be at the HDMI

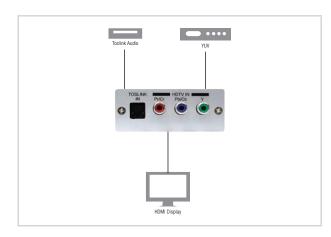
There are two versions of this unit to choose from to match the audio connection you require (the alternative, CP-281H, has Coaxial and stereo audio).

Features:

- Compliant with HDMI 1.2, HDCP 1.1 and DVI 1.0 standards
- Analogue YCbCr/YPbPr & Digital Audio (Toslink)
- Resolutions up to and including 1080p

Converter (+Toslink)

Combining digital audio with HDMI signal





Specifications:

| Model: | CP-280H |
|------------|-------------------------------------|
| Inputs | 3 x phono (RCA) - YUV + 1 x Toslink |
| Outputs | 1 x HDMI Female Port |
| Power | 5v DC/1A |
| Dimensions | 76(W) x 30(H) x 105(D) mm |
| Weight | 0.5kg |

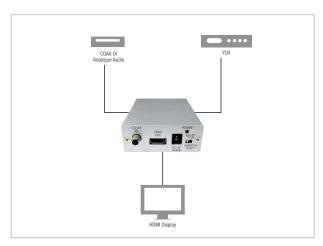
CP-281H: YUV to HDMI Format Converter

Convert any YUV signal (either YPbPR or YCbCr) plus digital coaxial or stereo audio to HDMI.

There are two versions of this unit to choose from to match the audio connection you require (the alternative, CP-280H, has Toslink audio).

Features:

- Compliant with HDMI 1.2, HDCP 1.1 and DVI 1.0 standards
- Analogue YCbCr/YPbPr & Digital Audio (coaxial) & stereo audio
- Resolutions up to and including 1080p
- Combining digital or stereo audio with HDMI signal



Specifications:

| Model: | CP-281H |
|------------|---|
| Inputs | 3 x phono (RCA) - YUV + 1 x Coaxial, 1 x 3.5mm stereo jack plug |
| Outputs | HDMI female port |
| Power | 5v DC |
| Dimensions | 76.7(W) x 30(H) x 105(D) mm |
| Weight | 0.5kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075







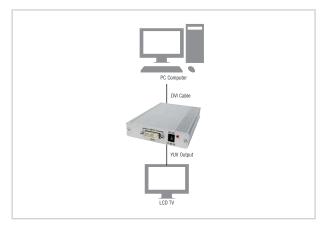
• CP-292: DVI-I to Component (HD) Scaler Box

Designed to upscale DVI-I input sources to a HD output offering a wide-range of HDTV resolutions up to 1080p.

This unit has a comprehensive OSD menu that allows user to select a variety of output resolutions and adjust for best picture quality.

- Provides output picture adjustment on contrast, brightness, sharpness, RGB (colour tone) level and aspect ratio size.
- Scales any PC/HD resolutions to HD (480i to 1080p) resolutions.
- Supports high resolution output: SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p





| • | |
|------------|---|
| Model: | CP-292 |
| Inputs | 1 x DVI-I female port |
| Outputs | 1 x Component (Y/Pb/Pr), 1 x DVI-I female port |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 157(W) x 25(H) x 102(D) mm |
| Weight | 0.32kg |



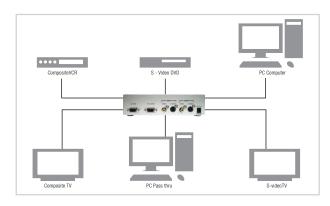
• CPT-1370: PC to Video Overlay

This PC to Video overlay system is designed to overlay PC/Graphics onto Video signal and also can convert a variety of VGA sources to Video signal.

Features:

- Superimpose PC text and graphics onto another video signal
- Supports VGA to Video conversion. VGA: 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, Video: NTSC, NTSC4.43, PAL, PAL-M, PAL-N or SECAM
- Zoom and Pan functions plus remote control
- Support vertical and horizontal overscan/underscan control
- Auto frame rate conversion from 56Hz up to 85Hz
- Cross-platform compatibility for PC, Macintosh and Notebook
- No software driver required
- Simultaneous display on both the PC and TV monitor





| Model: | CPT-1370 |
|------------|---|
| Inputs | 1 x PC, 1 x Video, 1 x S-Video |
| Outputs | 1 x PC Pass through, 1 x Video, 1 x S-Video |
| Power | 9v/2A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 191(W) x 140(D) x 48(H) mm |
| Weight | 0.95kg |

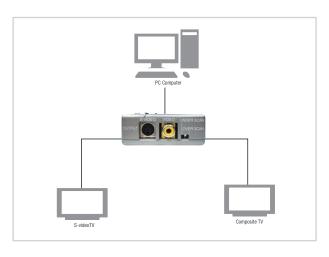


CPT-385A: PC to Video Scan Converter

Convert computer images to analogue video. This video scan converter is designed to convert a variety of computer images, from 640 x 480 up to 1600 x 1200, to interlaced NTSC or PAL video formats. Supports both composite and S-Video signals. Ideal for video conference, business presentation, lecturing room or viewing PC images on TV.

Features:

- · Automatic detects and down converts PC images to NTSC or PAL
- Scales down PC video to Composite or S-Video
- Supports high-resolution PC input up to UXGA (1600x1200@60Hz)
- Over scan and Under scan selection





Specifications:

| Model: | CPT-385A | |
|------------|---|--|
| Inputs | 1 x 15pin D-Sub | |
| Outputs | 1 x CV or S-Video | |
| Power | 3.3v/1A DC (US/EU standards, CE/FCC/UL certified) | |
| Dimensions | 64(W) x 18.5(H) x 100(D) mm | |
| Weight | 0.1kg | |

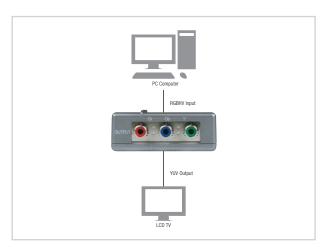
• CPT-386: VGA to Component Converter

Convert any PC images to Component (YCbCr) Video – outputting in 480i or 576i.

Features:

- Convert from PC resolutions to TV resolutions
- Supports resolutions PC Input from VGA up to UXGA (1600 x 1200 @ 60Hz)
- Supports output resolutions 480i or 576i





| • | |
|------------|---|
| Model: | CPT-386 |
| Inputs | RGBHV via 1 x 15 pin d sub |
| Outputs | YUV Component (3 x RCA) |
| Power | 3.3V/1A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 100(W) x 23(H) x 64(D) mm |
| Weight | 0.1ka |

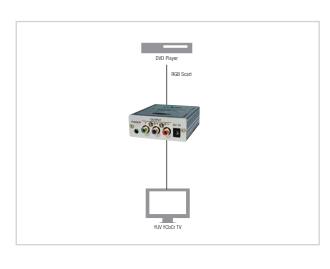


• CSY-2100: Scart RGB to Component Converter

Convert any Scart RGB signal to a superb quality (red, green and blue) component video signal.

- Operates in NTSC 3.58, 4.43, PAL & SECAM
- Enhances picture quality by utilizing YUV input your display





| Model: | CSY-2100 |
|------------|---------------------------|
| Inputs | 1 x RGB Scart |
| Outputs | 3 x Phono (RCA) YUV |
| Power | DC 7.5v 500mA |
| Dimensions | 100(W) x 29(H) x 76(D) mm |
| Weight | 0.2kg |





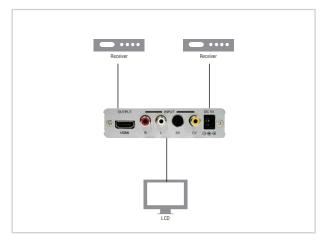
• CVLUX-1080P: Analogue to HDMI Converter 1080P

The CVLUX-1080P Scaler Box is designed to display both composite S-VHS video source images on any high definition screen with a wide-range of selectable viewing resolutions.

Features:

- HDMI 1.3 support deep colour 12 bit, HDCP 1.1, DVI 1.0 compliance
- Automatic lipsync (audio delay) ensures audio video synchronization
- Input video systems NTSC/PAL
- Automatic resolution selection and individual resolution selection button
- HDMI output with RGB color space design
- Resolutions: VGA, 480p, 576p, 720p, 1080i, 1080p @ 50/60





| • | | |
|------------|---|--|
| Model: | CVLUX-1080P | |
| Inputs | 1 x CV, 1 x SV, Audio 1 x set R/L on RCA | |
| Outputs | 1 x HDMI female port | |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL) (certified) | |
| Dimensions | 100(W) x 25(H) x 157(D) mm | |
| Weight | 0.6kg | |







XA-HDMI: Pro HDMI Test Pattern Generator

The XA-HDMI Professional Pattern Generator offers a combination of various timings, patterns and colour spaces.

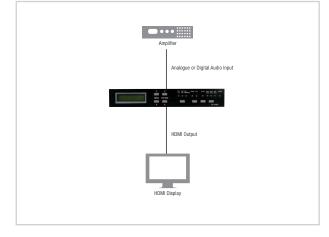
It can provide up to 4095 types of video testing signals. This generator also supports three types of audio testing signal, built-in sine wave, external analogue audio and external digital audio.

Its operation is simple yet comprehensive, use the remote or push buttons to select timings.

Features:

- v1.2 HDMI, HDCP 1.1 and DVI 1.0 Compliant
- Pro HDMI Test Pattern Generator
- Resolutions Supported:
 PC VGA to WUXGA
 HDTV 480i to 1080p (please refer to the manual for a full detailed list)
- Built in 1kHz Sine wave (adjustable sampling rate) together with analogue stereo & optical inputs fro audio referencing
- Provides total 35 timings and 39 patterns
- RS-232 & IR Remote control
- On-panel LED display and LED indicators (HDCP verification LED)





| Model: | XA-HDMI | |
|------------|---|--|
| Input | 1 x Audio L/R, 1 x Optical (Toslink) | |
| Output | 1 x HDMI, 1 x RS-232 | |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL certified) | |
| Dimensions | 280(W) x 45(H) x 145(D) mm | |
| Weight | 0.98kg | |



XA-3: Advanced HDMI & Audio Pattern Generator and Analyser

The XA-3 HDMI v1.3 compliant video test pattern generator is the most advanced device for your audio & video signals test.

With built-in 39 timings and 45 patterns, it outputs both analog and digital signals, providing thousands of types of testing signals.

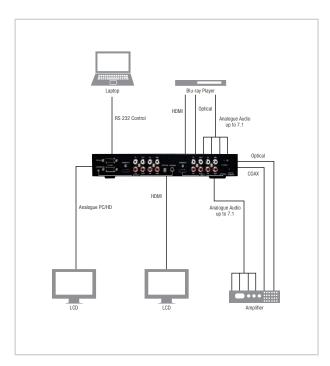
This handy device can be conveniently controlled via the front panel buttons or the IR remote with an LCD display for easily identifying settings.

Other than testing your displays, this generator can also check the resolution of your sources and record them, check bandwidth and phase behavior of video transmission, verify video amplifiers/color temperature/video motion plus HDCP verification, data comparison, EDID check and many more other useful functions.

Features:

- HDMI v1.3, HDCP v1.1 and DVI v1.0 compliant
- Provides 39 timings and 51 patterns
- Timings include SD, HD up to 1080p, PC up to UXGA/WUXGA (Reduced Blanking)
- Graphic Tests and Data Analysis patterns included
- Output format with digital HDMI/DVI, or analog PC/HD (component)
- Supported color formats include RGB444, YCbCr444 AND YCbCr422
- Deep color support up to 8/10/12bits
- Selectable audio source from 7.1 CH, optical or internal sine wave
- Internal sinewave LPCM channel is selectable from 2CH, 5.1CH and 7.1CH
- Supports the following tests and analysis: HDCP, EDID, HDMI/DVI
- Auto run setting test mode





| • | |
|------------|---|
| Model: | XA-3 |
| Inputs | 8 x Analogue Audio 7.1 (RCA), 1 x Optical (Toslink), 1 x HDMI, 1 x RS-232 |
| Outputs | 8 x Analogue Audio 7.1 (RCA), 1 x Optical (Toslink) 1 x Coaxial (RCA), 1 x HDMI, 1 x VGA (15 pin D-sub) |
| Power | 5v/3A, DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions | 280(W) x 40(H) x 140(D) mm |
| Weight | 1.96kg |







XA-S11: EDID/CEC Selector

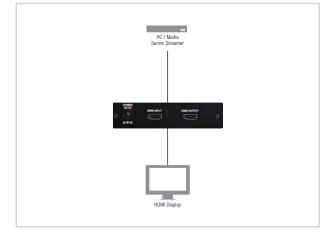
This high performance HDMI v1.3 switcher allows the user to set up a firm EDID and CEC connection between the source and the display, eliminating the time spent on signal configuration with synchronization before receiving a display.

Features:

- Compliant with HDMI 1.3 and DVI 1.0 standards
- Serial data rate at up to 2.25Gbps, capable of supporting the following digital video formats in Deep Colour Mode at up to 36 bits (12 bits/color)
- Resolutions Supported: PC VGA, SVGA, XGA, SXGA to UXGA HDTV 480i/p, 576i/p, 720p, 1080i/p
- Supports HD audio-Dolby Digital TrueHD and DTS-HD
- Embedded EDID RAM and Built-in CEC support with compliant CEC PHY
- Signal Enhancement feature allows you to improve signal quality after long distance transmission
- 3D Ready







| Model: | XA-S11 | |
|------------|--|--|
| Input | 1 x HDMI | |
| Output | 1 x HDMI | |
| Power | 5v/2.6A DC (US/EU standards, CE/FCC/UL (certified) | |
| Dimensions | 97(W) x 30(H) x 125(D) mm | |
| Weight | 0.55kg | |

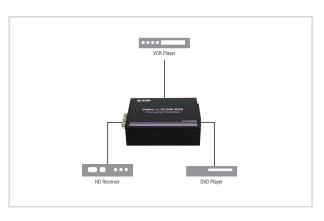


CCR-2SRGB: Composite Video to Scart RGB Converter

Transform all those 'precious memories' from VHS tapes into high quality DVD recordings. This device will take the composite signal from your VCR output (or playing device) and reformat the signal into high quality scart RGB mode for perfect DVD recording. Compatible with all Scart connected equipment.

Features:

- Regenerates sync and restored colour burst to achieve an error-free output
- · Auto recognition of TV system and converts to RGBS Scart
- · Picture quality enhancement
- Audio source loop-through



Video to SCART RGB Converter/ Stabilizer ccr.25RGB

Specifications:

| Model: | CCR-2SRGB |
|------------|------------------------------|
| Inputs | 1 x CV (RCA) + 2 audio (RCA) |
| Output | Scart |
| Power | 7.5v DC, 500mA |
| Dimensions | 105(W) x 30(H) x 76.7(D) mm |
| Weight | 0.2kg |

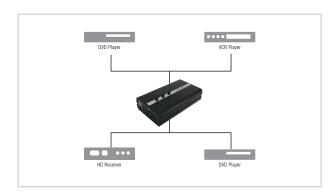
CCR-1SRGB: Sync and Colour Restorer for RGB Recordings

Independently correct red, green & blue, contrast and brightness on a true RGB signal. The RGB Scart input and output also handles composite video and has the added benefit of allowing you to control contrast, brightness and overall colour only – handy for VCRs.

The smart incorporated sync pulse corrector ensures that your recordings remain steady throughout colour adjustment whilst the coloured LEDs guide you through the various controls and functions

Features:

- Regenerates sync and restores colour burst to achieve an error-free standard video output
- RGB colour control of any scart RGB signal
- Colour, brightness and contrast control of both RGB and composite signals
- Supports both RGB and composite video inputs and outputs
- Stereo audio loop through





| Model: | CCR-1SRGB |
|--------------|-----------------------------|
| Input/Output | Scart (RGB & Composite) |
| Power | 7.5v DC, 500mA |
| Dimensions | 87.5(W) x 40(H) x 155(D) mm |
| Weight | 0.25kg |



• CTB-100: Compact Time Base Corrector

Correct and transfer tapes to DVD, digital, full-frame synchroniser, which replaces all the sync signals from the source.

It restores vertical and horizontal sync, which is common on worn tapes, to a stable and jitter-free picture.

Features:

- NTSC, PAL & SECAM compatible
- Restores Colour burst
- · Adjusts colour, contrast, sharpness and NTSC tint
- Supports both Composite and S-Video



| Model: | CCR-1SRGB |
|------------|---------------------------|
| Inputs | 1 x CV, 1 x SV |
| Outputs | 1 x CV, 1 x SV |
| Power | 12v DC, 1.25A |
| Dimensions | 145(W) x 34(H) x 95(D) mm |
| Weight | 0.18kg |

ASIEL

- TD-104: 1-to-4 Video Distribution Amplifier
- TD-204: 2-to-4 Video Distribution Amplifier
- TD-404: 4-to-8 Video Distribution Amplifier

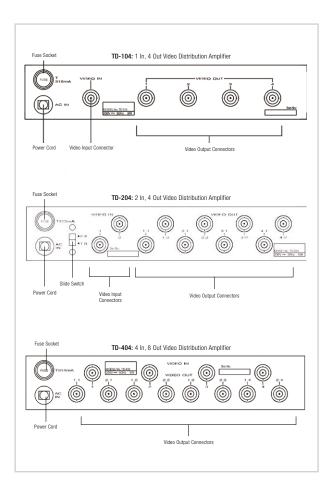
These high quality composite video distribution amplifiers feature 4/8

Standard BNC type input and output connectors enable the range to be used with CCTV amplifiers, switchers, cameras, monitors and VCRs, etc.

Features:

- Rack Mountable using optional rackmount kit
- High quality BNC connectors





| Model: | TD-104: |
|--------------------|----------------------------|
| Video Input | 1-2v pp, 75W, BNC |
| Video Output | 1-2v pp/75W, BNC |
| Video Bandwidth | 10MHz ±3dB |
| Signal/Noise Ratio | >55dB |
| Power Requirement | 230v AC, 50Hz |
| Power Consumption | 3W max |
| Dimensions | 240(W) x 44(H) x 240(D) mm |
| Weight | 2.2kg |

| Model: | TD-204: | TD-408: |
|--------------------|----------------------------|----------------------------|
| Video Input | 1-2v pp, 75W, BNC | 4 x 1v pp, 75W, BNC |
| Video Output | 1-2v pp/75W, BNC | 8 x 1v pp at 75W BNC |
| Video Bandwidth | 10MHz ±3dB | 10MHz ±dB |
| Signal/Noise Ratio | >55dB | >55dB |
| Power Requirement | 230v AC, 50Hz | 230v AC, 50Hz |
| Power Consumption | 6W max | 6W max |
| Dimensions | 44(H) x 216(W) x 240(D) mm | 44(H) x 216(W) x 240(D) mm |
| Weight | 2.5kg | 2.5kg |

ASIEL

TD-816: Video Distribution Amplifier

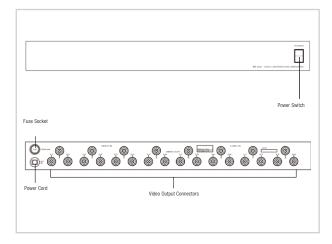
The TD-816 is a high quality video distribution amplifier with sixteen video outputs.

Internal jumpers allows the distribution of two video input to eight video outputs, four video inputs to four video outputs or eight video inputs to two video outputs.

Standard BNC type input and output connectors enables the TD-816 to be used with other CCTV amplifiers, switchers, cameras, monitors and video tape recorders.

Features:

- 2 In ~ 8 Out, 4 In ~ 4 Out, 8 In ~ 2 Out
- Rack mountable using optional rack mount kit



| Model: | TD-816: |
|--------------------|----------------------------|
| Video Input | 1-2v pp, 75Ω, BNC |
| Video Output | 1-2v pp, 75Ω, BNC |
| Video Bandwidth | 10MHz ±dB |
| Signal/Noise Ratio | >55dB |
| Power Requirement | 230v AC, 50Hz |
| Power Consumption | 12W max |
| Dimensions | 432(W) x 44(H) x 240(D) mm |
| Weight | 4.7kg |





VAMS-0808: 8 In-8 Out Audio & Video Matrix

A simple, yet effective 8 input / 8 output BNC Audio & Video Matrix Unit, allowing selection and allocation of separate audio and video signal sources.

This incredibly cost effective, 19" rack mounting unit features simple selection switches and highly visible LED display on the front panel to show which input (audio & video) is routed to which output. Alternatively, the unit can be controlled using RS232 via Crestron, AMX or Extron systems or equivalents via a 9pin D type connector.

Units may also be cascaded to increase the flexibility and application of the devices using the serial connector on the rear of the unit.

Features:

- 8 Audio/Video input & output with A/V thermal noise protection
- Low cross-talk and wide-band frequency response (±0.5dB)
- Allows system extension via cascading units (max. 4 units)
- RS-232C port for data communication
- Lock-out function on front panel controls
- Restores to the final stage setup in a case of power loss
- 19" rack mounting unit



Specifications: Video

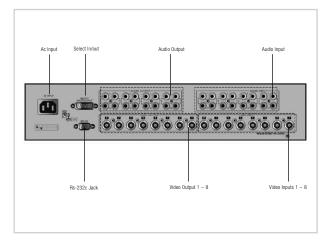
| Model: | VAMS-0808 |
|---------------------------|-------------------------------|
| Input/Output Impedance | 1VP-P 75W Composite Video BNC |
| Frequency Response (7MHz) | Below 0.5dB |
| Input/Output Level | 1VP-P 140 IRE |
| Signal/Noise Ratio | 60dB |
| Crosstalk | -60dB |

Specifications: Audio

| Model: | VAMS-0808 |
|------------------------|----------------------------------|
| Input/Output Impedance | 2.2VP-P.High Impedance Unbal/RCA |
| T.H.D+N(20Hz-20kHz) | <0.1% |
| Frequency Response | (20Hz ~ 20kHz): <±3dB |
| Signal/Noise Ratio | >90dB |
| Crosstalk | <-90dB |

Specifications: Control

| Model: | VAMS-0808 |
|-------------------|----------------------------|
| Interface | RS-232C |
| Data Bit | 8 bit |
| Stop Bit | 1 bit |
| Power Requirement | 230v AC, 50/60Hz |
| Dimensions | 482(W) x 88(H) x 220(D) mm |





| Av Connector Faceplates | 340 ~ 349 |
|---------------------------------------|-----------|
| Pre-terminated Faceplate & Cable Kits | 350 |
| AV Floorbox System | 351 |
| Cat5 Audio Distribution System | 352 |



• 1GEIAVPLT: Single-gang AV Input Plate

Features:

- 1 x Easy-Install, solderless VGA HD15F (VGAPCBUNITNEW)
- 4 x RCA audio sockets; 2 x left plus 2 x right
- 1 x RCA video socket



• 2GEIAVPLT: Double-gang AV Input Plate

Features:

- 2 x Easy-Install, solderless VGA sockets (VGAPCBUNITNEW)
- 2 x RCA audio sockets; left and right
- 1 x RCA video socket
- 1 x 3.5mm PC audio socket
- 1 x USB B Male to USB B Female 3m whiteboard flying lead
- 1 x RJ-45 back-to-back socket









A range of PCB modules featuring AV connectors with easy-termination screw terminals to the rear. Ideal for on-site installation where soldering is not appropriate or available andin conjuction with our range of Easy-Instal VGA Cables (VGA-FRL-XXM) on page 359.

• CLB-VGAPCBUNIT: Solderless VGA Module

The module incorporates a HD 15-way female D-type and rear screw terminals for quick and easy installation on site. Supplied complete with a clear, easy to use wiring diagram.



CLB-VGA+3.5PCBUNIT: Solderless VGA + 3.5PCB Module

VGA + 3.5 unit to screw terminals.



CLB-HDMI-PCB-TERM: Solderless HDMI Module

HDMI-ST Module, HDMI to screw terminals



• CLB-RJ45PCBUNIT: Solderless RJ45 Module

RJ45-ST Module, RJ45 to screw terminals.



CLB-USBPCBUNIT: Solderless USB Module @

USB-ST Module, USB to screw terminals.







AVPLATE1: Single-gang VGA Plate

Features:

- 1 x Easy-Install, solderless VGA plate HD15F with rear screw terminations
- Ideal for use with our Easy-Install VGA cables



• AVPLATE1: Single-gang VGA Plate

AVPLATE2: Single-gang 3 x RCA Plate

Features:

- 2 x RCA audio sockets, left and right
- 1 x RCA composite video socket
- Solder connections at the rear



• AVPLATE2: Single-gang AV Plate

- 1GEIXLRM: Single-gang Male XLR Plate
- 1GEIXLRF: Single-gang Female XLR Plate

Features:

- Solderless rear screw terminations
- Quick and easy installation
- High quality Switchcraft XLR
- Available with a male or female XLR



• 1GEIXLRM: Single-gang male XLR Plate



• 1GEIXLRF: Single-gang female XLR Plate



- 1GEIHDMI: Single-gang HDMI Plate •
- 1GEIHDMIRA: Single-gang HDMI Plate (bottom HDMI access to rear)

Features:

- HDMl connection front and rear
- Rear socket is aligned for entry from side or below
- Designed for use with metal in-wall pattress with side knock-outs



1GEIHDMI:
 Single-gang HDMI plate



1GEIHDMI:
 HDMI rear connection side access



 1GEIHDMIRA: Single-gang HDMI



1GEIHDMIRA:
 HDMI rear connection bottom access



Outreach Plates: Audio Input Extension System

A range of wall, ceiling and desk mountable single gang audio input plates specifically designed to increase the audio input capability of any audio system. A total of six plates are available one to suit virtually every conceivable variant of audio input connector - and each featuring a built-in mixer, pre-amp, input level control and balancing output.

Up to ten plates of any mix can be daisy-chained to one balanced line level input with cable lengths in excess of 100m easily achievable using standard two-pair audio cable (i.e. Belden 8723) with no recognisable degradation of audio signal quality.

All plates are surface mountable on 25mm single-gang back boxes and can be installed at the most convenient point on an installation, thus overcoming the need for long and potentially hazardous microphone/audio leads.

APJ: 3.5mm Jack Outreach Plate

Accepts balanced or unbalanced microphones with 3.5mm mono jack plugs. Includes an onboard mic-to-line level converter, high gain pre-amplifier and 8v phantom power.



Accepts two line-level signals (usually from a stereo source such as a TV, CD, MP3 or DVD). Includes an on-board dual phono to mono converter. An ALS SCART to dual phono lead is also available to facilitate the connection of TVs, VCRs, etc, to the APL.

APQ: ¼" Jack Outreach Plate

Accepts balanced or unbalanced microphones with 1/4" jack plugs. Includes an on-board mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

APXM: XLR Microphone Level Outreach Plate

Accepts balanced or unbalanced microphones with standard 3 pin XLR female connectors. Includes an on-board mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

APXL: XLR Line Level Outreach Plate

Accepts standard 3 pin XLR female feeds from audio equipment such as stage or church mixing desks, etc.

APM: Omni-Directional Plated Mic Outreach Plate

A self-contained omni-directional electret microphone complete with on-board mic-to-line level converter. Ideal for mounting in ceilings, walls or desks, the unit offers excellent coverage (typically up to 25m² when located at a ceiling height of 2.5-3m).

Ancillary Devices:

Should the Outreach network be connected to an induction loop system, any of the following ancillary devices can be added:

API: 'AFII S Active' Outreach Plate

Includes two ultra-bright LEDs in a translucent diffuser overprinted with the induction loop 'ear' symbol. The LEDs illuminate when the outreach network is powered to indicate that an AFILS system is installed. Current consumption is 30mA max.

APF: Field Strength Meter Outreach Plate

Indicates the magnetic field strength generated by an induction loop system via three LEDs, labelled +6dB, OdB and -6dB. The LEDs illuminate as appropriate whenever a signal is present and can be easily set up to indicate the magnetic field strength in the room centre.























VGAKIT-1G-10M: 10m Cable Single-Gang

Faceplate Kit

VGAKIT-1G-15M: 15m Cable Single-Gang

Faceplate Kit

• VGAKIT-1G-20M: 20m Cable Single-Gang

Faceplate Kit

Features:

- 1 x Single-gang AV faceplate (1GEIAVPLT)
- 1 x VGA cable with easy route ferrule ends
- 2 x Twin RCA audio cables
- 1 x RCA video cable



• VGAKIT-2G-10M:10m Cable Double-Gang Faceplate Kit

 VGAKIT-2G-15M:15m Cable Double-Gang Faceplate Kit @

Features:

- 1 x Double-gang AV faceplate (2GEIAVPLT) incorporating a 3m whiteboard USB B cable and back-to-back RJ45 socket
- 2 x VGA cable with easy route ferrule ends
- 1 x Twin RCA audio cables
- 1 x RCA video cable



• AVWB1-10M: 10m Cable Pre-Terminates

AV Wallbox Kit 🗢

AVWB2-15M: 15m Cable Pre-Terminates
 AV Wallbox Kit

This fully pre-terminated AV wallbox kit comes with all installation cables already internally connected, providing high speed 'plug and play' installation.

Features:

- Wallbox connections made from below for tidy, secure cable connectivity
- Wallbox features input connections for 2 x VGA, composite video, L and R RCA audio, whiteboard USB B, RJ-45 and HDMI)

Kit also includes:

- 2 x prewired VGA cables
- 1 x stereo 3.5mm plug-to-plug cable
- 1 x prewired USB lead







• FB221X303X86BOX: Clever Little FloorBox

This UK designed and built Audio Visual FloorBox accepts a full range of input and output modules to meet the specific requirements of each individual AV system.

Manufactured in high quality galvanised steel and grey polycarbonate, our new 'Clever Little FloorBox' combines discreet and flexible design with safe and robust construction.

Specifications:

| Model: | FB221X303X86B0X |
|--------------------------|---|
| Number of Module Spaces | Max. 3 x 2-gang Plates or 6 x Angled Plates or combination of above |
| Materials | Galvanised Steel High Impact Polycarbonate |
| Floor Cutout Dimensions | 265 x 212 mm |
| Lid Recess Dimensions | 239 x 150 mm |
| Lid Recess Depth | 6mm |
| Depth Below Floor Level | 84mm |
| Height Above Floor Level | 4mm |
| Weight (without Modules) | 2.17kg |



FB2GANGMAINS

2-gang mains outlet.



FBRJPLATE

4 port blank RJ plate for use with FBRJMODULE. (Modules sold separately)



FBRJMODULE

Snap in Cat5 module for use with FBRJPLATE.



FBANGLEDAV

Angled plate with 1 x VGA with screw terminal contacts for easy installation, 3 x Phono and 1 x 3.5mm sockets.



FBANGLE2XVGA

Angled plate with 2 \times VGA with screw terminal contacts for easy installation.



FBANGLEVGA2XUSB

Angled plate with 1 x VGA with screw terminal contacts for easy installation, 1 x USB-B and 1 x USB-A couplers.





Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075



SONET4: Cat5 Audio Distribution System -4 in / 4 out

The highly successful 'Sonet' Sound-over-Ethernet System has been designed to simplify and speed up installations where multiple microphone or line level inputs need to be situated a distance from the amplifier equipment.

Types of installation include churches, schools, theatres and corporate boardrooms.

This extremely versatile and cost effective installation device removes the need for multiple cable runs from remote audio inputs to the amplifier equipment. The SONET4 System can transmit up to four microphone or line level signals down one screened Cat5e cable for up to 1000m.

Each input and output can be independently configured for balanced or unbalanced signals as well as line level or microphone level. There is also an option to provide phantom power to the microphone inputs independently.

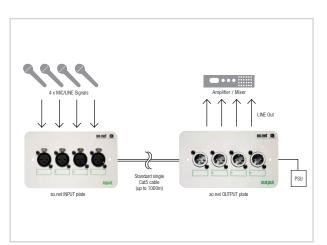
Each unit fits neatly into a standard UK double-gang back box and only requires a power supply at the output or amplifier end (PSU supplied as part of system).

Features:

- Reduces installation time
- Up to 1000m between Input and Output plates achievable
- Very high interference immunity
- Balanced or unbalanced inputs & outputs
- Line or Microphone level inputs & outputs
- Phantom power (max. 15v DC)
- Four XLR sockets on standard 2 gang plates
- No power required at input module
- · Power Supply included as part of system

Please Note:

When using Cat5 UTP (unshielded) cable, the So.Net system is only capable of transferring up to 3 channels. STP (shielded) Cat5 cable will allow for the maximum 4 channels.





Specifications:

| Input Module: | |
|------------------|--|
| Power | Over Cat5 cable |
| Ground | Over Cat5 cable screen (or spare pair) |
| Inputs x 4 | Balanced XLR female |
| MIC/LINE in | Selectable by jumper |
| Phantom Power | 15v jumper selectable |
| MIC Impedance | 600Ω |
| MIC Level Input | 10mv RMS |
| LINE Impedance | 50kΩ |
| LINE Input Level | 700mv RMS (1.5v RMS max) |
| Cat5 Termination | Screw terminals |

| Output Module: | |
|--------------------|--|
| Power Requirements | 24v DC @ 100mA (regulated linear power supply recommended) |
| Outputs x 4 | Balanced XLR male |
| MIC/LINE Out | Selectable by jumper |
| MIC Out Impedance | 600Ω |
| MIC Level Output | 20mv RMS (into 600Ω) |
| LINE Out Impedance | 20kΩ |
| LINE Level Output | 700mv RMS (into 20K) |

| General: | |
|-----------------------|--|
| Channels | Four, individually configurable |
| Bandwidth | 100Hz ~ 20kHz (-3dB) |
| Crosstalk | >60dB |
| Signal to Noise Ratio | >60dB |
| Cable Spec | Screened Cat5e cable (UTP can be used, but one pair required for ground, meaning only three channels would be available) |
| Cable Length | 1000m maximum |
| Cat5 Terminators | Screw terminals |

Protected against short circuit on Cat5 cable to ground



| HDMI Cables | 354 ~ 355 |
|----------------------------------|-----------|
| DisplayPort Cables | 356 ~ 358 |
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HDMI 1.3 Cables

HDMI cables suitable for distributing high quality digital video and audio.

Featuring gold-plated connectors for improved performance, these cables are HDMI 1.3b compliant.

Models:

| Model: | Description |
|-----------|-------------|
| HDMI1MTR | 1 metre |
| HDMI3MTR | 3 metres |
| HDMI5MTR | 5 metres |
| HDMI10MTR | 10 metres |



Blue LED HDMI 1.4 Cable

High quality and distinct male-to-male cables featuring blue LED-lit connectors and robust, flexible blue nylon braiding.

With gold-plated connectors for high performance, these cables are $\ensuremath{\mathsf{HDMl}}$ 1.4 compliant.

Models:

| Model: | Description |
|----------------|-------------|
| STA-L5010B-1M | 1 metre |
| STA-L5010B-3M | 3 metres |
| STA-L5010B-5M | 5 metres |
| STA-L5010B-10M | 10 metres |





High Performance HDMI 1.4 Cable

High performance HDMI 1.4 compliant cable, featuring gold-plated connectors.

Models:

| Model: | Description |
|--------------------|-------------|
| STA-5010-1M-BLUE | 1 metre |
| STA-5010-3M-BLUE | 3 metres |
| STA-5010-5M-BLUE | 5 metres |
| STA-5010-10M-BLUE | 10 metres |
| STA-5010-1M-RED | 1 metre |
| STA-5010-3M-RED | 3 metres |
| STA-5010-5M-RED | 5 metres |
| STA-5010-10M-RED | 10 metres |
| STA-5010-1M-GREEN | 1 metre |
| STA-5010-3M-GREEN | 3 metres |
| STA-5010-5M-GREEN | 5 metres |
| STA-5010-10M-GREEN | 10 metres |





HDMI to Ferrule Cable

Cable assembly one end with HDMI connector on the other end cut off and crimping with ferrules fitted.

Models:

| Model: | Description |
|--------------|-------------|
| HDMI-FRL-5M | 5 metres |
| HDMI-FRL-10M | 10 metres |
| HDMI-FRL-15M | 15 metres |









Features:

- HDMI M/MINI HDMI M cable
- PE Inner Mold, Copper shell, Gold Plated
- Black & Orange 2 color molding, PVC
- Bare copper conductor, CCA braiding
- 3 Shielding,standard wire spec, Version 1.3v, 30AWG OD6.0mm UL20276, 1P+D+A+MY)*4P+1P+5C+AB+Jacket

Models:

| Model: | Description |
|-------------|-------------|
| STA-201A-AC | 1 metre |
| STA-201A-AC | 3 metres |
| STA-201A-AC | 5 metres |



Mini HDMI - Standard HDMI Cables

Features:

- MINI HDMI M/M cable
- PE Inner Mold, Copper shell, Gold Plated
- Black & Orange 2 color molding, PVC
- Bare copper conductor, CCA braiding
- 3 Shielding,standard wire spec, Version 1.3v, 30AWG OD6.0mm UL20276, 1P+D+A+MY)*4P+1P+5C+AB+Jacket

Models:

| Model: | Description |
|-------------|-------------|
| STA-201A-CC | 1 metre |
| STA-201A-CC | 3 metres |
| STA-201A-CC | 5 metres |



HDMI Couplers/Adaptors

Models:

| Model: | Description |
|-----------------|-----------------------------------|
| | · |
| HDMI-RA-COUPLER | 90° HDMI-to-HDMI Coupler |
| HDMI-HDMI F/F | HDMI-to-HDMI Coupler |
| HDMI-DVI-F/M | HDMI Female to DVI-D Male Adaptor |
| HDMI-DVI-M/F | HDMI Male to DVI-D Female Adaptor |







- HDMI-DVI 2M: HDMI to DVI-D 2 metre Cable
- HDMI-DVI 5M: HDMI to DVI-D 5 metre Cable

Convenient convertor cables, allowing HDMI sources to be connected to DVI-D equipment and vice-versa.











• STA-DP002 (1M): Premier DisplayPort Male-to-Male Cables -1 metre

 STA-DP002 (2M): Premier DisplayPort Male-to-Male Cables -2 metres

 STA-DP002 (5M): Premier DisplayPort Male-to-Male Cables -5 metres

Features:

- DisplayPort M/M cable, overall braid
- PE Inner mold, Copper Shell, Gold plated
- White molding, PVC
- · Bare copper conductor, CCA braiding
- 3 shielding with standard wire spec, Version 1.3v, 30AWG OD7.3mm UL20276, 1P+D+A+MY)
 *4P+1P+5C+AB+PVC



CVT02-04CA0202: Mini DisplayPort-to-DVI Cable -100mm

Features:

- Compliant with DisplayPort Interoperability specification v1.1a
- Support full DisplayPort link training
- Compliant with DVI 1.1 specification up to 1.65Gbps
- ESD protect: Human Body Mode at 8Kv, Machine Mode at 400v and Charged Device Mode at 2kv
- PC: VGA, SVGA, XGA, SXGA, and UXGA
- HDTV: 480i, 576i, 480p, 576p, 1080i and 1080p
- Standby mode current: 64uA
- Cable Type, Plastic Cover Assembly, Chip on DVI side, Length=100mm, CE/FCC, RoHS
- Length = 100mm



CVT02-03CA0202: Mini DisplayPort-to-HDMI Cable -100mm

Features:

- Compliant with DisplayPort Interoperability specification v1.1a
- Support full DisplayPort link training
- Compliant with HDMI 1.3a specification up to 2.25Gbps
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v and Charged Device Mode at 2kv
- PC: VGA, SVGA, XGA, SXGA, and UXGA
- HDTV: 480i, 576i, 480p, 576p, 1080i and 1080p
- Standby mode current: 64uA
- Cable Type, Plastic Cover Assembly, Chip on HDMI side, Length=100mm, CE/FCC, RoHS
- Length = 100mm

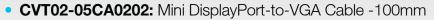












Features:

- DisplayPort 1.1a compliant receiver offering 1.62 and 2.7Gbps over 4 lanes
- Support full DisplayPort link training
- Video resolution up 1920 x 1200 x 60Hz
- ESD protect: Human Body Mode at 8Kv, Machine Mode at 400v and Charged Device Mode at 2kv
- PC: VGA, XGA, SVGA, SXGA, UXGA and WUXGA
- Cable Type, Plastic Cover Assembly, Chip on VGA side
- Length = 100mm



CVT01-04CA0205: DisplayPort Male-to-DVI Male Cable - 1.8m

Features:

- Compliant with DisplayPort Interoperability specification V1.1a
- Support full DisplayPort link training
- Compliant with DVI 1.1 specification up to 1.65Gbps
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v, and Charged Device Mode at 2kv
- PC: VGA, SVGA, XGA, SXGA, and UXGA
- HDTV: 480i, 576i, 480p, 576p, 1080i and 1080p
- Standby mode current: 64uA
- Length = 1.8 metres



CVT01-03CA0205: DisplayPort Male-to-HDMI Male Cable - 1.8m

- Compliant with DisplayPort Interoperability specification v1.1a
- Support full DisplayPort link training
- Compliant with HDMI 1.3a specification up to 2.25Gbps
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v and Charged Device Mode at 2kv
- PC: VGA, SVGA, XGA, SXGA, and UXGA
- HDTV: 480i, 576i, 480p, 576p, 1080i and 1080p
- Standby mode current: 64uA
- Length = 1.8 metres









CVT01-05AA0201: DisplayPort-to-VGA Adaptor

Features:

- DisplayPort 1.1a compliant receiver offering 1.62 and 2.7Gbps over 4 lanes
- Support full DisplayPort link training
- Video resolution up 1920 x 1200 x 60Hz
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v and Charged Device Mode at 2kv
- PC: VGA, XGA, SVGA, SXGA, UXGA and WUXGA
- W/Latch, W/LED, Adapter Type, Plastic Cover Ass'y, RoHS



CVT01-04CA0203: DisplayPort-to-DVI Cable -100mm

Features:

- Compliant with DisplayPort Interoperability specification V1.1a
- Support full DisplayPort link training
- Compliant with DVI 1.1 specification up to 1.65Gbps
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v, and Charged Device Mode at 2kv
- PC: VGA, SVGA, XGA, SXGA, and UXGA
- HDTV: 480i, 576i, 480p, 576p, 1080i and 1080p
- Standby mode current: 64uA, RoHS
- Length = 100mm



CVT01-03CA0203: DisplayPort-to-HDMI Cable - 100mm

Features:

- Compliant with DisplayPort Interoperability specification V1.1a
- Support full DisplayPort link training
- Compliant with HDMI 1.3a specification up to 2.25Gbps
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v, and Charged Device Mode at 2kv
- PC: VGA, SVGA, XGA, SXGA, and UXGA
- HDTV: 480i, 576i, 480p, 576p, 1080i and 1080p
- Standby mode current: 64uA, RoHS
- Length = 100mm



CVT01-05CA0203: DisplayPort-to-VGA Cable - 100mm

Features:

- DisplayPort 1.1a compliant receiver offering 1.62 and 2.7Gbps over 4 lanes
- Support full DisplayPort link training
- Video resolution up 1920 X 1200 X 60Hz
- ESD protect: Human Body Mode at 8kv, Machine Mode at 400v, and Charged Device Mode at 2kv
- PC: VGA, XGA, SVGA, SXGA, UXGA and WUXGA, RoHS
- Length = 100mm





Low Profile VGA Cables

These Low Profile VGA cables are unobtrusive and attractively designed. Ideal for use in highly visible areas or in racks where space may be limited.

Male-to-Male Models:

| Model: | Description |
|-----------------|-------------|
| LPVGA-M/M-1.0M | 1 metre |
| LPVGA-M/M-3.0M | 3 metres |
| LPVGA-M/M-5.0M | 5 metres |
| LPVGA-M/M-10.0M | 10 metres |
| LPVGA-M/M-15.0M | 15 metres |
| LPVGA-M/M-20.0M | 20 metres |

Male-to-Female Models:

| Model: | Description |
|-----------------|-------------|
| LPVGA-M/F-1.0M | 1 metre |
| LPVGA-M/F-3.0M | 3 metres |
| LPVGA-M/F-5.0M | 5 metres |
| LPVGA-M/F-10.0M | 10 metres |
| LPVGA-M/F-15.0M | 15 metres |
| LPVGA-M/F-20.0M | 20 metres |





Right-angle to Low Profile VGA Cables

15 way Male-to-Male VGA cables featuring low profile VGA connector at one end and right-angle VGA at the other.

Models:

| Model: | Description |
|----------------|-------------|
| LPVGA-RA-1.0M | 1 metre |
| LPVGA-RA-3.0M | 3 metres |
| LPVGA-RA-5.0M | 5 metres |
| LPVGA-RA-10.0M | 10 metres |





Easy-Install VGA Cables

Easy-Install Male VGA-to-Ferrule Free ends.

Ideal for use with our range of AV Wall Faceplates or Solderless VGA modules, these cables allow the VGA cable to be routed through tight spaces/conduit and then quickly terminated at the faceplate without the need to solder, helping to dramatically reduce installation times. The cables consist of 3 coax cores, 5 signal wires plus a screen wire.

Models:

| Model: | Description |
|---------------|-------------|
| VGA-FRL-1.0M | 1 metre |
| VGA-FRL-5.0M | 5 metres |
| VGA-FRL-10.0M | 10 metres |
| VGA-FRL-15.0M | 15 metres |
| VGA-FRL-20.0M | 20 metres |
| VGA-FRL-30.0M | 30 metres |
| VGA-FRL-50.0M | 50 metres |





Premier Grade VGA Cables (Fully wired with all 15 pins)

Male-to-Male and Male-to-Female Premier Grade VGA Cables.

Utilising high quality, high performance cable, these premier grade VGA cables are suitable for use in the most demanding of applications. Fully wired with all 15 pins connected.

Models:

| Model: | Description |
|-----------------|-------------|
| SVGAPREM2.0M/M | 2 metres |
| SVGAPREM10.0M/M | 10 metres |
| SVGAPREM15.0M/M | 15 metres |
| SVGAPREM20.0M/M | 20 metres |
| SVGAPREM30.0M/M | 30 metres |
| SVGAPREM50.0M/M | 50 metres |
| SVGAPREM0.5M/F | 0.5 metres |
| SVGAPREM2.0M/F | 2 metres |







Low Smoke, Zero Halogen Premium VGA Cables

Features:

- Cable Assembly Type:VGA
- Connector Type A:VGA Plug
- Connector Type B:VGA Plug

Models:

| Model: | Description |
|--------------|--|
| LSZH-VGA-1M | Low Smoke, Zero Halogen Premier VGA Cable - 1m male to male |
| LSZH-VGA-3M | Low Smoke, Zero Halogen Premier VGA Cable - 3m male to male |
| LSZH-VGA-5M | Low Smoke, Zero Halogen Premier VGA Cable -5m male to male |
| LSZH-VGA-10M | Low Smoke, Zero Halogen Premier VGA Cable - 10m male to male |
| LSZH-VGA-15M | Low Smoke, Zero Halogen Premier VGA Cable - 15m male to male |
| LSZH-VGA-20M | Low Smoke, Zero Halogen Premier VGA Cable - 20m male to male |





The following cables enable the DataBay AVE-300 Series VGA Transmitters and Receivers (seen on page 289) to be converted to transmit Component Video or Composite Video.

Component Video Cables:

HD15F-YCBCR70: Component Video Source Cable

Comprising of a high density 15 way female 'D' type connector to 5 \times RCA (Phono) plugs. Cable length 0.7m. This cable is used in conjunction with the 'monitor cable' shown below.

The RCA connectors are used to connect to the source player in the following configuration:

| Plug Colour | Cable Colour | Player Connection |
|-------------|--------------|-------------------------------------|
| Red | Red | Component Video: Red Connector |
| Green | Green | Component Video: Green Connector |
| Blue | Blue | Component Video: Blue Connector |
| White | Black | Audio: Left |
| Red | Black | Audio: Right |

The 'D' type connector is then connected to the VGA input port of an AVE-300 Series Transmitter.



HD15M-YCBCR180: Component Video Monitor Cable

Comprising of a high density 15 way female 'D' type connector to Comprising of a high density 15 way male 'D' type connector and 3.5mm plug to 5 x RCA (Phono) plugs. Cable length 1.8m. This cable is used in conjunction with the 'source cable' shown above.

The RCA connectors are used to connect to the monitor in the following configuration:

| Plug Colour | Cable Colour | Monitor Connection |
|-------------|--------------|-------------------------------------|
| Red | Red | Component Video: Red Connector |
| Green | Green | Component Video: Green Connector |
| Blue | Blue | Component Video: Blue Connector |
| White | Black | Audio In: Left |
| Red | Black | Audio In: Right |

The 'D' type connector is then connected to the VGA output port of an AVE-300 Series Receiver.

The 3.5mm plug is connected to the audio output port of the AVE-300 Series Receiver.





Composite Video Cables:

The following cables enable the AVE-300 Series VGA Transmitters and Receivers (seen on page 289) to be converted to transmit Component Video or Composite Video.

HD15F-S3RCA70: Composite Video Source Cable

Comprising of a high density 15 way female 'D' type connector to $3 \times RCA$ (Phono) plugs and an S-Video Mini-Din plug. Cable length 0.7m. This cable is used in conjunction with the 'monitor cable' shown below.

The RCA connectors are used to connect to the source player in the following configuration:

| Plug Colour | Cable Colour | Player Connection |
|-------------|--------------|---------------------|
| Yellow | Black | Composite Video Out |
| White | Black | Audio Out: Left |
| Red | Black | Audio Out: Right |

Alternatively, the S-Video Mini-Din plug could be used in place of the Yellow RCA plug.

The 'D' type connector is then connected to the VGA input port of an AVE-300 SeriesTransmitter.



HD15M-S3RCA180: Composite Video Monitor Cable

Comprising of a high density 15 way male 'D' type connector and 3.5mm plug to $3 \times RCA$ (Phono) plugs and an S-Video MiniDin plug. Cable length 1.8m. This cable is used in conjunction with the 'source cable' shown above.

The RCA connectors are used to connect to the monitor in the following configuration:

| Plug Colour | Cable Colour | Function |
|-------------|--------------|--------------------|
| Yellow | Black | Composite Video In |
| White | Black | Audio In: Left |
| Red | Black | Audio In: Right |

Note: If the video source is via S-Video then replace the Yellow RCA connector with the S-Video plug.

The 'D' type connector is then connected the VGA output port of an AVE-300 Series Receiver.

The 3.5mm plug is connected to the audio output port of the AVE-300 Series Receiver.







- DVI-DVI 2M: 2 metre DVI-to-DVI Cable
- DVI-DVI 5M: 5 metre DVI-to-DVI Cable



• DVI-A to VGA M/M 2M: 2 metre DVI-to-VGA Cable

Used to interconnect DVI-A and 15-way High Density VGA connectors. The cable has Male-to-Male orientation and is 2 m in length.



- DVI to VGA F/M Adaptor: DVI Female to VGA Male Adaptor
- DVI to VGA M/F Adaptor: DVI Male to VGA Female Adaptor









FB-009

FB-010

FB-033

Fibre Optic Cables

| A complete range of pre-terminated, multimode Fibre Optic Cables. | | |
|---|-------------------------------------|--|
| Model: | Description: | |
| FB-001-H | LC-LC: 50/125 MMD fibre 0.5m orange | |
| FB-001 | LC-LC: 50/125 MMD fibre 1m orange | |
| FB-002 | LC-LC: 50/125 MMD fibre 2m orange | |
| FB-003 | LC-LC: 50/125 MMD fibre 3m orange | |
| FB-004 | LC-LC: 50/125 MMD fibre 5m orange | |
| FB-005 | LC-LC: 50/125 MMD fibre 10m orange | |
| FB-031 | LC-LC: 50/125 MMD fibre 15m orange | |
| Model: | Description: | |
| FB-006-H | LC-ST: 50/125 MMD fibre 0.5M orange | |
| FB-006 | LC-ST: 50/125 MMD fibre 1m orange | |
| FB-007 | LC-ST: 50/125 MMD fibre 2m orange | |
| FB-008 | LC-ST: 50/125 MMD fibre 3m orange | |

| Model: | Description: |
|--------|------------------------------------|
| FB-011 | LC-SC: 50/125 MMD Fibre 1m Orange |
| FB-012 | LC-SC: 50/125 MMD Fibre 2m Orange |
| FB-013 | LC-SC: 50/125 MMD Fibre 3m Orange |
| FB-014 | LC-SC: 50/125 MMD Fibre 5m Orange |
| FB-015 | LC-SC: 50/125 MMD Fibre 10m Orange |
| FB-032 | LC-SC: 50/125 MMD Fibre 15m Orange |

LC-ST: 50/125 MMD Fibre 5m Orange

LC-ST: 50/125 MMD Fibre 10m Orange

LC-ST: 50/125 MMD Fibre 15m Orange

| Model: | Description: |
|--------|------------------------------------|
| FB-016 | ST-ST: 50/125 MMD Fibre 1m Orange |
| FB-017 | ST-ST: 50/125 MMD Fibre 2m Orange |
| FB-018 | ST-ST: 50/125 MMD Fibre 3m Orange |
| FB-019 | ST-ST: 50/125 MMD Fibre 5m Orange |
| FB-020 | ST-ST: 50/125 MMD Fibre 10m Orange |

| Model: | Description: |
|--------|------------------------------------|
| FB-021 | ST-SC: 50/125 MMD Fibre 1m Orange |
| FB-022 | ST-SC: 50/125 MMD Fibre 2m Orange |
| FB-023 | ST-SC: 50/125 MMD Fibre 3m Orange |
| FB-024 | ST-SC: 50/125 MMD Fibre 5m Orange |
| FB-025 | ST-SC: 50/125 MMD Fibre 10m Orange |

| Model: | Description: |
|--------|------------------------------------|
| FB-026 | SC-SC: 50/125 MMD Fibre 1m Orange |
| FB-027 | SC-SC: 50/125 MMD Fibre 2m Orange |
| FB-028 | SC-SC: 50/125 MMD Fibre 3m Orange |
| FB-029 | SC-SC: 50/125 MMD Fibre 5m Orange |
| FB-030 | SC-SC: 50/125 MMD Fibre 10m Orange |

| Model: | Description: |
|---------|-----------------------------------|
| OM3-001 | LC-LC: 50/125 MMD Fibre 1m Orange |
| OM3-002 | LC-LC: 50/125 MMD Fibre 2m Orange |
| OM3-003 | LC-LC: 50/125 MMD Fibre 3m Orange |
| OM3-005 | LC-LC: 50/125 MMD Fibre 5m Orange |

| Model: | Description: |
|---------|-----------------------------------|
| OM3-006 | LC-ST: 50/125 MMD Fibre 1m Orange |
| OM3-007 | LC-ST: 50/125 MMD Fibre 2m Orange |
| OM3-008 | LC-ST: 50/125 MMD Fibre 3m Orange |
| OM3-009 | LC-ST: 50/125 MMD Fibre 5m Orange |
| Madeli | Description |

| Model: | Description: |
|---------|-----------------------------------|
| OM3-011 | LC-SC: 50/125 MMD Fibre 1m Orange |
| 0M3-012 | LC-SC: 50/125 MMD Fibre 2m Orange |
| OM3-013 | LC-SC: 50/125 MMD Fibre 3m Orange |
| OM3-015 | LC-SC: 50/125 MMD Fibre 5m Orange |





















Fibre Optic Cables (contd.)

| Model: | Description; | |
|--|--|--|
| FB-101 | ST-ST: 62.5/125 MMD Fibre 1m Grey | |
| FB-102 | ST-ST: 62.5/125 MMD Fibre 2m Grey | |
| FB-103 | ST-ST: 62.5/125 MMD Fibre 3m Grey | |
| FB-105 | ST-ST: 62.5/125 MMD Fibre 5m Grey | |
| Model: | Description; | |
| FB-201 | ST-SC: 62.5/125 MMD Fibre 1m Grey | |
| FB-202 | ST-SC: 62.5/125 MMD Fibre 2m Grey | |
| FB-203 | ST-SC: 62.5/125 MMD Fibre 3m Grey | |
| FB-205 | ST-SC: 62.5/125 MMD Fibre 5m Grey | |
| FB-210 | ST-SC: 62.5/125 MMD Fibre 10m Grey | |
| Model: | Description; | |
| FB-301 | SC-SC: 62.5/125 MMD Fibre 1m Grey | |
| FB-302 | SC-SC: 62.5/125 MMD Fibre 2m Grey | |
| | | |
| FB-303 FB-305 | SC-SC: 62.5/125 MMD Fibre 3m Grey | |
| FB-310 | SC-SC: 62.5/125 MMD Fibre 5m Grey SC-SC: 62.5/125 MMD Fibre 10m Grey | |
| 16-310 | 30-30. 02.3/123 WIND Fibre Tofff diey | |
| Model: | Description; | |
| FB-400 | LC-LC: 62.5/125 MMD Fibre 0.5m Grey | |
| FB-401 | LC-LC: 62.5/125 MMD Fibre 1m Grey | |
| FB-402 | LC-LC: 62.5/125 MMD Fibre 2m Grey | |
| FB-403 | LC-LC: 62.5/125 MMD Fibre 3m Grey | |
| FB-405 | LC-LC: 62.5/125 MMD Fibre 5m Grey | |
| FB-410 | LC-LC: 62.5/125 MMD Fibre 10m Grey | |
| FB-415 | LC-LC: 62.5/125 MMD Fibre 15m Grey | |
| FB-420 | LC-LC: 62.5/125 MMD Fibre 20m Grey | |
| Model: | Description; | |
| FB-500 | LC-SC: 62.5/125 MMD Fibre 0.5m Grey | |
| FB-501 | LC-SC: 62.5/125 MMD Fibre 1m Grey | |
| FB-502 | LC-SC: 62.5/125 MMD Fibre 2m Grey | |
| | LC-SC: 62.5/125 MMD Fibre 3m Grey | |
| FB-503 | LC-SC: 62.5/125 MMD Fibre 3m Grey | |
| FB-503 FB-505 | LC-SC: 62.5/125 MMD Fibre 3m Grey LC-SC: 62.5/125 MMD Fibre 5m Grey | |
| | - | |
| FB-505 | LC-SC: 62.5/125 MMD Fibre 5m Grey | |
| FB-505 FB-510 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey | |
| FB-505 FB-510 FB-515 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey | |
| FB-505 FB-510 FB-515 Model: | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; | |
| FB-505 FB-510 FB-515 Model: FB-600 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 FB-615 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 FB-615 Model: | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey Description; | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 FB-615 Model: FB-701 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey Description; MJ-SC: 62.5/125 MMD Fibre 1m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 FB-615 Model: FB-701 FB-702 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey Description; MJ-SC: 62.5/125 MMD Fibre 1m Grey MJ-SC: 62.5/125 MMD Fibre 1m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 FB-615 Model: FB-701 FB-702 FB-703 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey MJ-SC: 62.5/125 MMD Fibre 1m Grey MJ-SC: 62.5/125 MMD Fibre 2m Grey MJ-SC: 62.5/125 MMD Fibre 2m Grey MJ-SC: 62.5/125 MMD Fibre 2m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-615 Model: FB-701 FB-702 FB-703 FB-705 | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey Description; MJ-SC: 62.5/125 MMD Fibre 1m Grey MJ-SC: 62.5/125 MMD Fibre 3m Grey | |
| FB-505 FB-510 FB-515 Model: FB-600 FB-601 FB-602 FB-603 FB-605 FB-610 FB-615 Model: FB-701 FB-702 FB-703 FB-703 FB-705 Model: | LC-SC: 62.5/125 MMD Fibre 5m Grey LC-SC: 62.5/125 MMD Fibre 10m Grey LC-SC: 62.5/125 MMD Fibre 15m Grey Description; LC-ST: 62/5/125 MMD Fibre 0.5m Grey LC-ST: 62.5/125 MMD Fibre 1m Grey LC-ST: 62.5/125 MMD Fibre 2m Grey LC-ST: 62.5/125 MMD Fibre 3m Grey LC-ST: 62.5/125 MMD Fibre 5m Grey LC-ST: 62.5/125 MMD Fibre 10m Grey LC-ST: 62.5/125 MMD Fibre 15m Grey MJ-SC: 62.5/125 MMD Fibre 15m Grey Description; MJ-SC: 62.5/125 MMD Fibre 2m Grey MJ-SC: 62.5/125 MMD Fibre 3m Grey MJ-SC: 62.5/125 MMD Fibre 3m Grey MJ-SC: 62.5/125 MMD Fibre 3m Grey MJ-SC: 62.5/125 MMD Fibre 5m Grey | |



















Premier Toslink Cables

Features:

- Toslink Male/Toslink Male
- Gold plated Chromium shell
- OD 7.0Mm/PVC yellow color
- Braided Oversheath

Models:

| Model: | Description |
|--------------|---|
| STA-F001 1M | Premier Toslink Male-to-Male Cables-1 metre |
| STA-F001 3M | Premier Toslink Male-to-Male Cables-3metres |
| STA-F001 5M | Premier Toslink Male-to-Male Cables-5 metres |
| STA-F001 10M | Premier Toslink Male-to-Male Cables-10 metres |



• STA-TSPL0102: 1-to-2 Toslink Splitter Mutual Function

Optical digital Splitter, 1 In/2 Out.



• STA-TSL001: Toslink to 3.5mm Adaptor

Toslink to 3.5mm jack Adaptor.





Scart Leads

A range of high grade, 21 pin fully-wired scart leads for connection of AV equipment to TVs and display screens:

| Model: | Description |
|---------|--|
| 2SSP-01 | 1.5m 21 pin black Scart cable, M-M, Gold on coax cable |
| 2SSP-03 | 3m 21 pin black Scart cable, M-M, Gold on coax cable |
| 2SSP-05 | 5m 21 pin black Scart cable, M-M, Gold on coax cable |
| 2SSP-10 | 10m 21 pin black Scart cable, M-M, Gold on coax cable |
| 1SS-01 | 1.5m Scart, M-M, Black nickel cable |
| 1SS-03 | 3m Scart, M-M, Black nickel cable |
| 1SS-05 | 5m Scart, M-M, Black nickel cable |
| 1SS-10 | 10m Scart, M-M, Black nickel cable |





1SS scart lead



RCA (Phono) Pre-Made Cables

A range of RCA cables ideal for use in most AV installations and particularly suitable for use with the our range of faceplates shown on pages 346 $\sim 351.\,$

The range includes plug-to-plug cables in 1, 2 and 3 way versions, as well as plug-to-free end cables, ready to be terminated on the rear of a faceplate.

RCA Plug-to-RCA Plug Cables Models:

| • | • | | |
|------------------|---|-------------|--|
| Model: | Description | | |
| 2XRCA-2XRCA0.75M | 2 x RCA to 2 x RCA, Red/White | 0.75 metres | |
| 2XRCAREDBLK15M | 2 x RCA to 2 x RCA, Red/Black | 15 metres | |
| 3XRCA-3XRCA1.5M | 3 x RCA plugs to 3 x RCA plugs, Gold, Red, Yellow, Black | 1.5 metres | |
| 3XRCA-3XRCA3.0M | 3 x RCA plugs to 3 x RCA plugs, Gold, Red, Yellow, Black | 3 metres | |
| 3XRCA-3XRCA5.0M | 3 x RCA plugs to 3 x RCA plugs, Gold, Red, Yellow, Black | 5 metres | |
| 3XRCA-3XRCA10M | 3 x RCA plugs to 3 x RCA plugs, Gold, Red, Yellow, Black | 10 metres | |
| 3XRCA-3XRCA15M | 3 x RCA plugs to 3 x RCA plugs, Gold, Red, Yellow, Black | 15 metres | |
| 3XRCA-RYW0.75M | 3 x RCA plugs to 3 x RCA plugs, Red , Yellow, White | 0.75 metres | |
| 3XRCA-RYW1.5M | 3 x RCA plugs to 3 x RCA plugs, Red, Yellow, White | 1.5 metres | |
| 3XRCA-RYW2.0M | 3 x RCA plugs to 3 x RCA plugs, Red, Yellow, White | 2 metres | |
| 3XRCALEAD10MRYW | 3 x RCA plugs to 3 x RCA plugs, Red, Yellow, White | 10 metres | |
| 3XRCALEAD15MRYW | 3 x RCA plugs to 3 x RCA plugs, Red, Yellow, White | 15 metres | |



Plug-to-Free End RCA Cables Models:

| O | | |
|-----------------|---|-----------|
| Model: | Description | |
| 2XRCA-FE10MRDWH | 2 x RCA (1 red, 1 white) to Free End | 10 metres |
| 2XRCA-FE15MRDWH | 2 x RCA (1 red, 1 white) to Free End | 15 metres |
| RCAYELW-FREE10M | 1 x RCA (yellow) to Free End | 10 metres |
| RCAYELW-FREE15M | 1 x RCA (yellow) to Free End | 15 metres |

3.5mm Pre-Made Cables

A range of 3.5mm plug cables, ideal for use with most AV installations and particularly suitable with our range of quality faceplates.

Normally used to carry PC/MP3 audio, the range includes plug-to-plug ends, plug-to-ferrule ends and plug-to-free end cables, ready to be terminated on the rear of a faceplate.

Models:

| Model: | Description | |
|--|-------------|--|
| 3.5mm Stereo Plug-to-plug Lead | | |
| 3.5STRLEAD0.75M | 0.75 metres | |
| 3.5STRLEAD3.0M | 3 metres | |
| 3.5STRLEAD5.0M | 5 metres | |
| 3.5STRLEAD10M | 10 metres | |
| 3.5STRLEAD15M | 15 metres | |
| 3.5mm Stereo Plug-to-bootlace Ferrule Lead | | |
| 3.5STRLD-FRL10M | 10 metres | |
| 3.5STRLD-FRL15M | 15 metres | |

35HR07884X: 3.5mm Stereo to free end Lead

High quality 3.5mm Stereo Plug-to-Free End 2 metre Lead

35HR07235X: 3.5mm Stereo Plug to Plug Lead

High quality 3.5mm Stereo Plug-to-Plug 1.8 metre Lead





Premier USB 3.0 Cables

Marked USB 3.0, Connector USB 3.0 A Type Male, Gold plated, 15 μ contacts, Shell nickel plated, Moulded blue PVC.

Models:

| Model: | Description |
|----------------------|---------------------------|
| PREM-USB3.0AM-AM1.0M | 1 metre USB Male-to-Male |
| PREM-USB3.0AM-AM3.0M | 3 metres USB Male-to-Male |
| PREM-USB3.0AM-AM5.0M | 5 metres USB Male-to-Male |



Premier USB 3.0 Cables

Marked USB 3.0, Connector USB 3.0 A Type Male + USB 3.0 B Type Female, Solder type, Blue insulation, Gold plated, 15 μ contacts, Shell nickel plated, Moulded blue PVC.

Models:

| Model: | Description | |
|----------------------|-----------------------------|--|
| PREM-USB3.0AM-AF1.0M | 1 metre USB Male-to-Female | |
| PREM-USB3.0AM-AF3.0M | 3 metres USB Male-to-Female | |
| PREM-USB3.0AM-AF5.0M | 5 metres USB Male-to-Female | |



Premier USB 3.0 Cables

Marked USB 3.0 A Type Male Blue insulation, Gold plated, 15 μ contacts, Shell nickel plated + USB 3.0 B Type Male, solder type, blue insulation Gold plated, 15 μ contacts, shell nickel plated, Blue PVC.

Models:

| Model: | Description | |
|----------------------|-------------------------------|--|
| PREM-USB3.0AF-BF1.0M | 1 metre USB Female-to-Female | |
| PREM-USB3.0AF-BF3.0M | 3 metres USB Female-to-Female | |
| PREM-USB3.0AF-BF5.0M | 5 metres USB Female-to-Female | |



Premier USB 3.0 Cables

Marked USB 3.0, Connector USB 3.0 A Type Male + B Type Male, Solder type, Blue insulation, Gold plated, 15 μ contacts, Shell nickel plated, Moulded blue PVC.

Models:

| Model: | Description | |
|----------------------|-------------------------------|--|
| PREM-USB3.0AM-BM1.0M | 1 metre USB A Male-to-B Male | |
| PREM-USB3.0AM-BM3.0M | 3 metres USB A Male-to-B Male | |
| PREM-USB3.0AM-BM5.0M | 5 metres USB A Male-to-B Male | |



Interactive & Projectors





• USBEXKIT: USB Extender Kit

Used to simply but effectively extend a USB 1.1 signal beyond the normal 5 metre limit.

Supplied as a transmitter and receiver kit, the two devices are linked via user supplied Cat5e cable up to a maximum of 30 metres.



USB-BML-BFMPN3M: Interactive Whiteboard USB Cable

USB B panel-mount Male to USB B cable Female, 3 metre cable.







• STA-USB3A001: USB 3.0 A Male to A Male Adaptor

Converts a USB A female-ended cable to USB A Male gender.



• STA-USB3A002: USB 3.0 A Male to B Male Adaptor

Converts a USB A female-ended cable to USB B Male (or vice versa).



• STA-USB3A003: USB 3.0 A Male to A Female Adaptor

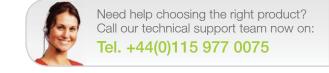
USB A cable coupler.



• STA-USB3A003B: USB 3.0 A Female to B Male Adaptor

Converts a USB A male-ended cable to USB B male gender.





WEST PENN WIRE

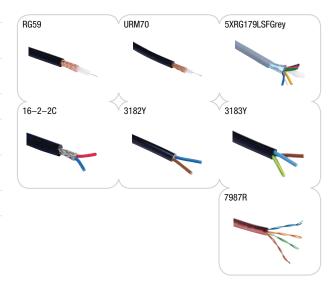
Installation Cable Reels

We stock a wide range of installation cables ideal for use in professional AV and PA installations, including the high quality WEST PENN WIRE range from the USA, as well as a variety of other cables commonly used in AV installation.

Part Numbers:

| lodel: | Description | | |
|----------------|--|-----------|--|
| RG59 | RG59/U Co-axial Cable, black sheath | 100m reel | |
| JRM70 | URM 70 75W Co-axial Cable, 100i black sheath | 100m reel | |
| SXRG179LSFGrey | 5 Core RG179 Co-axial Cable: low smoke fume, Grey sheath | 100m reel | |
| 6-2-2C | 16/0.2mm 2 Core screened to DEF-STAN 61~12, black sheath | 100m reel | |
| 1182Y | 2 Core cable, 0.75mm² (24/0.2mm) 6A rated, black sheath | 100m reel | |
| 1183Y | 3 Core cable, 0.75mm² (24/0.2mm) 6A rated, black sheath | 100m reel | |
| 224-1000* | West Penn Twin Twisted 305m bo Speaker Cable (approx 0.9mm²) | 305m box | |
| 225-1000* | West Penn Twin Twisted Speaker Cable (approx 1.25mm²) | 305m box | |
| 226-1000* | West Penn Twin Twisted Speaker Cable (approx 2.0mm²) | 305m box | |
| 291-1000* | West Penn Twisted Pair Shielded Microphone Cable (approx 0.5mm²) | 305m box | |
| 293-1000* | West Penn Twisted Pair Shielded Microphone Cable (approx 1mm²) | 305m box | |
| 357-1000* | West Penn 2 x Twisted Pair Mic Cable (approx 0.35mm²) | 305m box | |
| 7987R | Belden Cat-X Low Skew Cable (ideal for use with Databay and CYP product range) | 305m box | |







SpaceGAIN Cat5e UTP Angled Cables

SpaceGAIN CAT5e UTP Angled Cables with Moulded Boots. CAT5e UTP 90° angled cables perfect for tight places like cabinets.

Features:

- Patch cables with 90° angled connectors
- 24AWG, straight-pinned T568B moulded boots
- Different colours for link identification at a glance
- Choose from down, up, left or right angled versions
- Meets or exceeds CAT5e specifications
- Avoids excessive bends and reduces stress on the cable
- Cables extend straight up, down or sideways
- Tab faces up, down, left or right, depending on the cable

• SpaceGAIN 90° ~ 90° Down:

| Part Number | Description | Cable Length | Colour |
|---------------------|--|--------------|--------|
| EVNSL21E-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Blue |
| EVNSL21E-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Blue |
| EVNSL21E-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Blue |
| EVNSL21E-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Blue |
| EVNSL21E-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Blue |
| EVNSL21ES-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Blue |
| EVNSL21ES-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Blue |
| EVNSL21ES-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Blue |
| EVNSL21ES-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Blue |
| EVNSL21ES-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Blue |
| EVNSL22ES-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Green |
| EVNSL22ES-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Green |
| EVNSL22ES-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Green |
| EVNSL22ES-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Green |
| EVNSL22ES-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Green |
| EVNSL23E-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Red |
| EVNSL23E-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Red |
| EVNSL23E-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Red |
| EVNSL23E-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Red |
| EVNSL23E-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Red |
| EVNSL23ES-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Red |
| EVNSL23ES-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Red |
| EVNSL23ES-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Red |
| EVNSL23ES-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Red |
| EVNSL23ES-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Red |
| EVNSL24E-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Yellow |
| EVNSL24E-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Yellow |
| EVNSL24E-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Yellow |
| EVNSL24E-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Yellow |
| EVNSL24E-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Yellow |
| EVNSL24ES-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Yellow |
| | - | | |
| EVNSL24ES-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Yellow |
| EVNSL24ES-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Yellow |
| EVNSL24ES-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Yellow |
| EVNSL24ES-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Yellow |
| EVNSL27E-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Black |
| EVNSL27E-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Black |
| EVNSL27E-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Black |
| EVNSL27E-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Black |
| EVNSL27E-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Black |
| EVNSL27ES-0001-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.3m | Black |
| EVNSL27ES-0003-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 0.9m | Black |
| EVNSL27ES-0006-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 1.8m | Black |
| EVNSL27ES-0010-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 3.0m | Black |
| EVNSL27ES-0015-90DD | Cat5e Angled Cable: 90° Down ~ 90° Down | 4.5m | Black |





• SpaceGAIN 90° ~ 90° Up:

| Part Number | Description | Cable Length | Colour |
|---------------------|---------------------------------------|--------------|--------|
| EVNSL21E-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Blue |
| EVNSL21E-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Blue |
| EVNSL21E-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Blue |
| EVNSL21E-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Blue |
| EVNSL21E-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Blue |
| EVNSL21ES-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Blue |
| EVNSL21ES-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Blue |
| EVNSL21ES-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Blue |
| EVNSL21ES-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Blue |
| EVNSL21ES-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Blue |
| EVNSL22ES-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Green |
| EVNSL22ES-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Green |
| EVNSL22ES-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Green |
| EVNSL22ES-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Green |
| EVNSL22ES-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Green |
| EVNSL23E-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Red |
| EVNSL23E-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Red |
| EVNSL23E-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Red |
| EVNSL23E-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Red |
| EVNSL23E-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Red |
| EVNSL23ES-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Red |
| EVNSL23ES-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Red |
| EVNSL23ES-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Red |
| EVNSL23ES-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Red |
| EVNSL23ES-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Red |
| EVNSL24E-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Yellow |
| EVNSL24E-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Yellow |
| EVNSL24E-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Yellow |
| EVNSL24E-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Yellow |
| EVNSL24E-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Yellow |
| EVNSL24ES-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Yellow |
| EVNSL24ES-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Yellow |
| EVNSL24ES-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Yellow |
| EVNSL24ES-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Yellow |
| EVNSL24ES-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Yellow |
| EVNSL27E-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Black |
| EVNSL27E-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Black |
| EVNSL27E-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Black |
| EVNSL27E-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Black |
| EVNSL27E-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Black |
| EVNSL27ES-0001-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.3m | Black |
| EVNSL27ES-0003-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 0.9m | Black |
| EVNSL27ES-0006-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 1.8m | Black |
| EVNSL27ES-0010-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 3.0m | Black |
| EVNSL27ES-0015-90DU | Cat5e Angled Cable: 90° Down ~ 90° Up | 4.5m | Black |



• SpaceGAIN 90° Right ~ 180° Straight:

| • | · · | | |
|--------------------|---|--------------|--------|
| Part Number | Description | Cable Length | Colour |
| EVNSL21E-0003-90RS | Cat5e Angled Cable: 90° Right ~ 180° Straight | 0.9m | Blue |
| EVNSL21E-0006-90RS | Cat5e Angled Cable: 90° Right ~ 180° Straight | 1.8m | Blue |
| EVNSL21E-0010-90RS | Cat5e Angled Cable: 90° Right ~ 180° Straight | 3.0m | Blue |
| EVNSL27E-0003-90RS | Cat5e Angled Cable: 90° Right ~ 180° Straight | 0.9m | Black |
| EVNSL27E-0006-90RS | Cat5e Angled Cable: 90° Right ~ 180° Straight | 1.8m | Black |
| EVNSL27E-0010-90RS | Cat5e Angled Cable: 90° Right ~ 180° Straight | 3.0m | Black |





• SpaceGAIN 90° Down ~ 180° Straight:

| Part Number | Description | Cable Length | Colour |
|---------------------|--|--------------|--------|
| EVNSL21E-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Blue |
| EVNSL21E-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Blue |
| EVNSL21E-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Blue |
| EVNSL21E-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Blue |
| EVNSL21E-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Blue |
| EVNSL21ES-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Blue |
| EVNSL21ES-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Blue |
| EVNSL21ES-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Blue |
| EVNSL21ES-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Blue |
| EVNSL21ES-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Blue |
| EVNSL22ES-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Green |
| EVNSL22ES-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Green |
| EVNSL22ES-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Green |
| EVNSL22ES-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Green |
| EVNSL22ES-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Green |
| EVNSL23E-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Red |
| EVNSL23E-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Red |
| EVNSL23E-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Red |
| EVNSL23E-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Red |
| EVNSL23E-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Red |
| EVNSL23ES-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Red |
| EVNSL23ES-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Red |
| EVNSL23ES-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Red |
| EVNSL23ES-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Red |
| EVNSL23ES-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Red |
| EVNSL24E-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Yellow |
| EVNSL24E-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Yellow |
| EVNSL24E-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Yellow |
| EVNSL24E-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Yellow |
| EVNSL24E-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Yellow |
| EVNSL24ES-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Yellow |
| EVNSL24ES-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Yellow |
| EVNSL24ES-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Yellow |
| EVNSL24ES-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Yellow |
| EVNSL24ES-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Yellow |
| EVNSL27E-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Black |
| EVNSL27E-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Black |
| EVNSL27E-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Black |
| EVNSL27E-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Black |
| EVNSL27E-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Black |
| EVNSL27ES-0001-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.3m | Black |
| EVNSL27ES-0003-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 0.9m | Black |
| EVNSL27ES-0006-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 1.8m | Black |
| EVNSL27ES-0010-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 3.0m | Black |
| EVNSL27ES-0015-90DS | Cat5e Angled Cable: 90° Down ~ 180° Straight | 4.5m | Black |
| | | ' | |



| Part Number | Description | Cable Length | Colour |
|--------------------|--|--------------|--------|
| EVNSL21E-0003-90LS | Cat5e Angled Cable: 90° Left ~ 180° Straight | 0.9m | Blue |
| EVNSL21E-0006-90LS | Cat5e Angled Cable: 90° Left ~ 180° Straight | 1.8m | Blue |
| EVNSL21E-0010-90LS | Cat5e Angled Cable: 90° Left ~ 180° Straight | 3.0m | Blue |
| EVNSL27E-0003-90LS | Cat5e Angled Cable: 90° Left ~ 180° Straight | 0.9m | Black |
| EVNSL27E-0006-90LS | Cat5e Angled Cable: 90° Left ~ 180° Straight | 1.8m | Black |
| EVNSL27E-0010-90LS | Cat5e Angled Cable: 90° Left ~ 180° Straight | 3.0m | Black |





• 301013:

Cat5e Type 1 10/100 Cable Economiser

301014:

Cat5e Type 2 10 Base-T Cable Economiser

Cable economisers enable an additional signal to be transmitted down the unused pairs of Cat5e twisted-pair cable. This enables the instant expansion of an existing system without disrupting the network infrastructure.

(Note: Type 1 sold individually but must be used in pairs).



In-Line Adaptors

Models:

| Model: | Description |
|--------|-----------------------------------|
| 301001 | In-Line RJ45 Straight Wired Cat5e |
| 301002 | In-Line RJ45 Roll-Over Cat5e |
| 301003 | In-Line RJ45 UTP Cat5e |
| 301004 | In-Line RJ45 Half Shielded Cat5e |
| 25247 | In-Line RJ45 Fully Shielded Cat5e |
| 301012 | In-Line RJ45 UYP Cat5e |
| 1280 | In-Line RJ45 Straight Wired Voice |



Cat-X Punchdown Couplers

| Model: | Description |
|--------|-----------------------------|
| 301021 | Cat5e UTP Punchdown Coupler |
| 301022 | Cat5e STP Punchdown Coupler |
| 301023 | Cat6 UTP Punchdown Coupler |





• **1288:** RJ12 T-Piece Adaptor

1 x Male to 2 x Female RJ12 T Piece Adaptor.



• 1289: RJ45 T-Piece Adaptor

1 x Male to 2 x Female RJ45 T Piece Adaptor.



• 1179: RJ45 T-Piece Adaptor

1 x Female to 2 x Female RJ45 T Piece Adaptor.



• **1504:** BT Plug ~ RJ45 Socket



• **H51052:** ADSL Microfilter



• 775311: RJ11 ~ BT Socket (PABX)





Modular RJ Plugs



Models:

| Model: | Description | Positions | Cable Type | Max Performance |
|------------|--|-----------|----------------|-----------------|
| 701004 | RJ45 UTP Round Entry | 8P/8C | Stranded | Cat5e |
| 25243 | RJ45 UTP Round Entry | 8P/8C | Solid | Cat5e |
| 1271 | RJ45 UTP Flat Entry | 8P/8C | Stranded | Cat5e |
| 701004-AMP | RJ45 UTP Round Entry Amp | 8P/8C | Stranded/Solid | Cat5e |
| 11869 | RJ45 STP Round Entry | 8P/8C | Stranded | Cat5e |
| 701017 | RJ45 UTP Round Entry 2 Piece Sentinel | 8P/8C | Stranded/Solid | Cat6 |
| 701021 | RJ45 STP Round Entry 2 Piece Sentinel | 8P/8C | Stranded/Solid | Cat6/Cat6A |
| 701001 | RJ22 Flat Entry | 4P/4C | Stranded | Voice |
| 701002 | RJ11 Round Entry | 6P/4C | Stranded | Voice |
| 701003 | RJ12 Round Entry | 6P/6C | Stranded | Voice |
| 701005 | RJ48 Round Entry | 10P/10C | Stranded | E1 |
| 31104 | BT Crimp 631A | 6P/4C | Stranded | Voice |

RJ45 Strain Relief Boots

| Model: | Description |
|---------|--------------------|
| 3596-LG | Light Grey / Beige |
| 3596-BL | Blue |
| 3596-GN | Green |
| 3596-BK | Black |
| 3596-YE | Yellow |
| 3596-RD | Red |
| 3596-PK | Pink |
| 3596-0R | Orange |
| 3596-MV | Purple |
| 3596-WH | White |
| 3596-DG | Dark Grey |





- CCC600: UK Wall Plug to IEC Female Mains Lead 1.9m
- CCC280: UK Wall Plug to IEC Female Mains Lead 5m

UK Wall Plug (5A fused) to IEC Female Mains Leads-available in 1.9m and 5m length options.



• CCC001: IEC Male to Female Mains Lead - 2m

IEC Extension Lead-Male to Female (0.75mm²).



• CCC253: UK Wall Plug to Cloverleaf Female - 2m

UK Wall Plug (5A fused) to Coverleaf female Mains Lead (0.75mm).





• CABO71:

C14 Straight IEC Male Rewireable Connector (Black)

CABO71W:

C14 Straight IEC Male Rewireable Connector (White)



CABO71A:

C13 Straight IEC Female Rewireable Connector (Black)

• CABO71WF:

C13 Straight IEC Female Rewireable Connector (White)



• CABO69:

Right Angle C14 IEC Male Rewireable Connector (Black)

CABO69-WM:

Right Angle C14 IEC Male Rewireable Connector (White)



CABO69A:

Right Angle C13 IEC Female Rewireable Connector (Black)

CABO69-W:

Right Angle C13 IEC Female Rewireable Connector (White)



• CABO65:

C19 IEC Female Rewireable Connector (Black)

• CABO65-W:

C19 IEC Female Rewireable Connector (White)



• CWA001:

C20 IEC Male Rewireable Connector (Black)

CWA001-W:

C20 IEC Male Rewireable Connector (White)



UK-PLUG: CUK Plug BS1363 (Black)

• UK-PLUG-WHT: CUK Plug BS1363 (White)





PVC Flexible Conduit

Features:

- Flexible PVC thin wall conduit construction with reinforced nylon spiral
- Temperature rating: -10°C ~ +75°C intermittent to 85°C
- IP55 Rated

Models:

| Model: | Description |
|--------|--|
| CT1110 | 20(Ø) mm PVC Flexible Conduit Reel Size: 30 metres |
| CT1111 | 25(Ø) mm PVC Flexible Conduit Reel Size: 30 metres |
| CT1112 | 20(Ø) mm PVC Flexible Conduit Gland & Locknut |
| CT1113 | 25(Ø) mm PVC Flexible Conduit Gland & Locknut |



Galvanised Flexible Conduit

- Galvanised single clutch steel construction conduit
- Temperature rating: 0°C ~ +300°C
- IP40 Rated

Models:

| Model: | Description |
|--------|---|
| CT1114 | 20(Ø) mm Galvanised Flexible Conduit Reel Size: 30 metres |
| CT1115 | 25(Ø) mm Galvanised Flexible Conduit Reel Size: 30 metres |
| CT1116 | 20(Ø) mm Galvanised Flexible Conduit Gland & Locknut |
| CT1117 | 25(Ø) mm Galvanised Flexible Conduit Gland & Locknut |



Polypropolene Flexible Conduit

Features:

- Construction: Corrugated conduit manufactured from formulated Polypropolene
- Temperature rating: -5°C ~ +60°C intermittent to 70°C
- Flammability: 'Halogen Free' UL 94 V0, Oxygen Index 29%
- IP55 Rated

Models:

| Model: | Description |
|--------|---|
| CT1118 | 20(Ø) mm Polypropolene Flexible Conduit Reel Size: 100 metres |
| CT1119 | 25(Ø) mm Polypropolene Flexible Conduit Reel Size: 30 metres |
| CT1112 | 20(Ø) mm Polypropolene Flexible Conduit Gland & Locknut |
| CT1113 | 25(Ø) mm Polypropolene Flexible Conduit Gland & Locknut |



Polypropolene Slit Conduit

- Corrugated conduit manufactured from formulated Polypropolene
- Temperature rating: -5°C ~ +60°C intermittent to 70°C
- Flammability: 'Halogen Free' UL 94 VO, Oxygen Index 29%
- IP55 Rated

| Model: | Description |
|--------|--|
| CT1120 | 20(Ø) mm Polypropolene Slit Conduit Reel Size: 50 metres |
| CT1121 | 25(Ø) mm Polypropolene Slit Conduit Reel Size: 50 metres |







• **TO1019:** RJ11/12 Crimp Tool



• TO1020: RJ45 Crimp Tool



• TO1021: Universal RJ Crimp Tool



• TO1022: BT Crimp Tool



• TO1024: Krone Punchdown Tool



• TO1025: 110 Punchdown Tool



• TO1026: Cyclops UTP Cable Stripper





Brackets

Interactive & Projectors



| Faston Connectors | 384 |
|----------------------------------|-----------|
| XLR Connectors | 385 ~ 387 |
| AV Patchbays | 388 ~ 390 |
| Pass-through Input/Output Panels | 391 |
| Rack & Panel Connectors | 392 |

HPC Series Cable-Mount Faston Connectors

HPC Series cable-mount connectors are available as straight, right angle, or in-line.

Models:

| Model: | Description |
|-----------|---|
| HPCC4F | HPC Loudspeaker, Cable Mount Connector, straight cord plug |
| HPCC4FPKG | HPC Loudspeaker, Cable Mount Connector, straight cord plug, bulk pack |
| HPCC4RAF | HPC Loudspeaker, Right Angle Cable Mount Connector, right angle cord plug |
| HPCC4RAS | HPC Loudspeaker, Right Angle Cable Mount Connector |
| HPCC4S | HPC Loudspeaker, Cable Mount Connector |
| HPCI4F | HPC Loudspeaker, In-line Cable Mount Connector, in-line cord plug |



HPCC4RAF

HPCR Series Panel Faston Connectors

HPC Series round panel-mount connectors.

| Model: | Description |
|-----------|---|
| HPCPR410F | HPC Panel Mount Receptacle, Round, 0.093" Diameter Mounting Holes, 0.100" Flange Depth, 0.250" Faston Terminals |
| HPCPR41F1 | HPC Panel Mount Receptacle, Round, 0.152" Diameter Countersunk Mounting Holes, 0.100" Flange Depth, 0.187" Faston Terminals |
| HPCPR42F | HPC Panel Mount Receptacle, Round, 0.152" Diameter Countersunk Mounting Holes, 0.200" Flange Depth, 0.250" Faston Terminals |



TA Series Tini-QG Mini XLR-female

TA Series Tini-QG (Mini XLR) female cable-mount connectors.

Models:

| Model: | Description |
|--------|--|
| TA3FX | Tini-QG "Mini XLR" 3 Pin Female Cable-Mount, Silver Pins, Nickel |
| TA4FX | Tini-QG "Mini XLR" 4 Pin Female Cable-Mount, Silver Pins, Nickel |
| TA5FX | Tini-QG "Mini XLR" 5 Pin Female Cable-Mount, Silver Pins, Nickel |



TA Series Tini-QG Mini XLR-male

TA Series Tini-QG (Mini XLR) male cable-mount connectors.

Models:

| Model: | Description |
|--------|--|
| TA3MX | Tini-QG "Mini XLR" 3 Pin Male Cable-Mount, Silver Pins, Nickel |
| TA4MX | Tini-QG "Mini XLR" 4 Pin Male Cable-Mount, Silver Pins, Nickel |
| TA5MX | Tini-QG "Mini XLR" 5 Pin Male Cable-Mount, Silver Pins, Nickel |



TB Series Tini-QG Mini XLR-Panel Mount

TB Series male Tini-QG (Mini XLR) panel-mount connectors.

Models:

| Model: | Description |
|--------|--|
| TB3M | Tini-QG "Mini XLR", 3 Pin Male, circular Panel-Mount: Nickel Housing |
| TB4M | Tini-QG "Mini XLR", 4 Pin Male, circular Panel-Mount: Nickel Housing |
| TB5M | Tini-QG "Mini XLR", 5 Pin Male, circular Panel-Mount: Nickel Housing |
| TB6M | Tini-QG "Mini XLR", 6 Pin Male, circular Panel-Mount: Nickel Housing |



TB Series Shielded Mini XLR Connectors

Shielded Tini-QG (Mini XLR) connectors provide the same great quality as the rest of the Tini-QG series with the added benefit of shielding from EMI and RF interference.

| Model: | Description |
|----------|---|
| TA3FSHF | Shielded Mini XLR, 3 contacts, Female, Silver Plated contacts, with Flex Relief |
| TA3MSHF | Shielded Mini XLR, 3 contacts, Male, Silver Plated contacts, with Flex Relief |
| TA4FSHF | Shielded Mini XLR, 4 contacts, Female, Silver Plated contacts, with Flex Relief |
| TA4FMSHF | Shielded Mini XLR, 4 contacts, Male, Silver Plated contacts, with Flex Relief |



AAA Series 'QuickTwist' XLR Connectors

XLR connectors with two-piece assembly for quick termination and unequalled performance.

Models:

| Model: | Description |
|--------|--|
| AAA3F | AAA Series 3 Pin XLR Female Cable Mount, Silver Pins, Nickel Metal |
| AAA3M | AAA Series 3 Pin XLR Male Cable Mount, Silver Pins, Nickel Metal |
| AAA3FP | AAA Series 3 Pin XLR Female Cable Mount, Silver Pins, Plastic Body (Silver Head) |
| AAA3MP | AAA Series 3 Pin XLR Male Cable Mount, Silver Pins, Plastic Body (Silver Head) |
| AAA4F | AAA Series 4 Pin XLR Female Cable Mount, Silver Pins, Nickel Metal |
| AAA4FP | AAA Series 4 Pin XLR Female Cable Mount, Silver Pins, Plastic Body (Silver Head) |
| AAA4M | AAA Series 4 Pin XLR Male Cable Mount, Silver Pins, Nickel Metal |
| AAA4MP | AAA Series 4 Pin XLR Male Cable Mount, Silver Pins, Plastic Body (Silver Head) |
| AAA5F | AAA Series 5 Pin XLR Female Cable Mount, Silver Pins, Nickel Metal |
| AAA5M | AAA Series 5 Pin XLR Male Cable Mount, Silver Pins, Nickel Metal |
| AAA7F | AAA Series 7 Pin XLR Female Cable Mount, Silver Pins, Nickel Metal |
| AAA7M | AAA Series 7 Pin XLR Male Cable Mount, Silver Pins, Nickel Metal |



R Series Right-Angle Cable Mount XLR Connectors

Right-angle versions of AAA Series XLR Connectors.

Models:

| Model: | Description |
|--------|--|
| R3F | AAA Series 3 Pin Female Right Angle Cable Mount XLR, Silver Pins, Nickel Body |
| R3M | AAA Series 3 Pin Male Right Angle Cable Mount XLR, Silver Pins, Nickel Body |



E Series Panel-Mount XLR Connectors

The E Series offers a panel mount with quick release inserts. A small screwdriver can be used to remove the inserts, allowing for easy gender changes.

The male and female E Series fit into the same panel cut-outs.

| Model: | Description |
|--------|---|
| E3F | E Series 3 Pin XLR Female Quick Disconnect (No Latch), Conical Spring Contacts, Silver Pins, Nickel Finish |
| E3M | E Series 3 Pin XLR Male Quick Disconnect (No Latch), Conical Spring Contacts, Silver Pins, Nickel Finish |





DMX Adaptors

Switchcraft introduces their new series of DMX adaptors. The DMX adaptors were developed for use in the theatre lighting industry.

The adaptors allow the end user to use standard 3 pin XLR cable assemblies in connecting DMX equipment.

The adaptors are available in 3 pin male to 5 pin female and 5 pin male to 3 pin female. All are wired "straight through".

Models:

| Model: | Description |
|--------|----------------------------|
| S3F5M | 3 pin female to 5 pin male |
| S5F3M | 5 pin female to 3 pin male |

Features:

- Nickel-plated die-cast housing increases durability
- Pre-wired for immediate use
- Available in two configurations

Applications:

- Theatre lighting
- Any DMX application



Specifications:

| Model: | DMX Adaptors |
|-------------------|---|
| Shell | Die-cast zinc, satin nickel finish |
| Insert Insulation | Moulded thermoplastic |
| Socket Contacts | Silver-plated copper alloy, tarnish resistant |
| Pin Contacts | Silver-plated copper alloy, tarnish resistant |

EH Series: AV Panel Mount Connectors

1. Choose any combination of EH Series connectors.

The EH Series by Switchcraft is a complete line of audio, video and data connectors built into standard panel-mount XLR housings.

Custom combinations of EH Series connectors can be quickly loaded into any of our Q-G Series panels. Once mounted, connecting your equipment to the back of an EH Series connector is fast and easy.

Most connectors are feedthru, which means standard cabling is simply plugged into the back of your gear, then plugged into the back of the EH Series connector. For those EH Series connectors that are not feedthru, solder lugs are clearly marked for simple, secure solder connections.

 $\mbox{All}\mbox{ EH}\mbox{ Series}$ connectors are available individually bagged with mounting screws.

2. Choose a blank Q-G Series panel.

Q-G Series panels come standard as 1U (1x16), 1.5U (1x16), or 2U (2x16). 1U and 1.5U versions allow for any combination of up to 16 EH Series connectors to be loaded into the panel. The 2U version can accommodate up to 32 EH Series connectors. Every Q-G Series panel includes quick change designation strips for easy connector identification.

3. Populate EH Series connectors into Q-G Series panel to create custom I/O solution for all of your audio, video and data connections.

Switchcraft's EH Series is the fastest and most versatile way to create a custom panel or wall plate perfectly suited to meet the needs of any studio, broadcast facility, or systems integrator. Customise your studio, make it easy to access your I/O's, and increase the lifespan of expensive pieces of equipment using EH Series connectors and Q-G Series Panels from Switchcraft.



| Part Number | EH Series | Termination | Housing | Connector |
|-------------|---|-------------|---------|-----------|
| EH35MMMSC | 3.5MM (1/8") Mono | Solder | EH | 35MMMSC |
| EH35MMSSC | 3.5MM (1/8") Stereo | Solder | EH | 35MMSSC |
| EHSVHS2 | SVHS (S-Video) | Feedthru | EH | SVHS2 |
| EH6MD2 | PS/2 | Feedthru | EH | 6MD2 |
| EHFW2 | Firewire 400 (IEEE1394) Straight-wired | Feedthru | EH | FW2 |
| EHFWX2 | Firewire 400 (IEEE1394) Cross-wired | Feedthru | EH | FWX2 |
| EHFW8002 | Firewire 800 (IEEE1394B) Straight-wired | Feedthru | EH | FW8002 |
| EHFW800X2 | Firewire 800 (IEEE1394B) Cross-wired | Feedthru | EH | FW800X2 |
| EHRCA2 | RCA | Feedthru | EH | RCA2 |
| EHBNC2 | BNC | Feedthru | EH | BNC2 |
| EHBNC2R | BNC (Recessed Front) | Feedthru | EH | BNC2R |
| EHBNCSC | BNC | Solder | EH | BNCSC |
| EHBNCRCA | BNC to RCA | Feedthru | EH | BNCRCA |
| EHRCABNC | RCA to BNC | Feedthru | EH | RCABNC |
| EHUSBAB | USB A to B | Feedthru | EH | USBAB |
| EHUSBBA | USB B to A | Feedthru | EH | USBBA |
| EHDB9MM | 9-Pin DSUB Male to Male | Feedthru | EH | DB9MM |
| EHDB9MF | 9-Pin DSUB Male to Female | Feedthru | EH | DB9MF |
| EHDB9FF | 9-Pin DSUB Female to Female | Feedthru | EH | DB9FF |
| EHHD15MM | 15-Pin HD DSUB Male to Male | Feedthru | EH | HD15MM |
| EHHD15MF | 15-Pin HD DSUB Male to Female | Feedthru | EH | HD15MF |
| EHHD15FF | 15-Pin HD DSUB Female to Female | Feedthru | EH | HD15FF |
| EHFF | F to F (Coaxial) | Feedthru | EH | FF |
| EHLC2 | LC Fiber Optic (single-mode) | Feedthru | EH | LC2 |
| EHLC2M | LC Fiber Optic (multi-mode) | Feedthru | EH | LC2M |
| EHSC2 | SC Fiber Optic (single-mode) | Feedthru | EH | SC2 |
| EHSC2M | SC Fiber Optic (multi-mode) | Feedthru | EH | SC2M |
| EHST2 | ST Fiber Optic (single-mode) | Feedthru | EH | ST2 |
| EHST2M | ST Fiber Optic (multi-mode) | Feedthru | EH | ST2M |
| EHTL2 | TOSLINK | Feedthru | EH | TL2 |
| EHRJ45 P5ES | Cat 5e Sheilded | Feedthru | EH | RJ45 P5ES |
| EHRJ45 P5E | Cat 5e Unsheilded | Feedthru | EH | RJ45 P5E |
| EHRJ45 P6S | Cat 6 Sheilded | Feedthru | EH | RJ45 P6S |
| EHRJ45 P6 | Cat 6 Unsheilded | Feedthru | EH | RJ45 P6 |

• EH Series: AV Panel-Mount Connectors



E3MSCB



E3FSC



E4MSC



E4FSC



E5MSCB



E5FSC



E112BL



EH35MMMSC



EHUSBBAB



EHUSBAB



EHFWX2B



EHFW800X2



EH6MD2



EHSVHS2B



EHRCA2



EHDB9MF



EHDB9FFB



EHHD15MF



EHHD15FFB



EHFFB



EHBNC2B



EHLC2



EHLC2M



EHSC2



EHSC2M



EHST2



EHST2MB



EHTL2



ECP2PKG





ECP8PKG

Q-G[®] Panel Options

| Part Numbers | Rack Height | Number of Knockouts | Tapped 4-40 Holes |
|--------------|-------------|---------------------|-------------------|
| QGPK1B | 1U | 1 x 16 | No |
| QGPK1B440 | 1U | 1 x 16 | Yes |
| QGPK2B | 1.5U | 1 x 16 | No |
| QGPK2B440 | 1.5U | 1 x 16 | Yes |
| QGPK3B | 2U | 2 x 16 | No |
| QGPK3B440 | 2U | 2 x 16 | Yes |



Switchcraft Patchbays: MMVP Series Micro Video Patchbays

The MMVP Series provides the highest level of density for SMPTE 424M video and AES/EBU digital audio patching... 48 channels (96 patch-points) in a 1U 19" rack space.

Based on the patented, proven design of Switchcraft's MVJ MidSize video jack, the all metal, screw-in jack provides complete stability and durability in even the most extreme applications, including mobile production. The MMVP jack is rated at 3GHz and meets SMPTE 424M specifications. Industry standard DIN 1.0/2.3 rear termination makes installation easy and eliminates the need for proprietary connectors or special tooling.

Each patchbay jack can be colour-coded using our new colour chips. Each chip snaps into the front panel, providing instant channel identification. Additionally, snap-in posts on either side of the designation strips secure designation labeling.

The MMVP Series is available in 1U and 2U heights for greater flexibility. 2U versions are available with two rows of jacks (4 x 48 density). All versions are available normalled, non-normalled, 75Ω terminated or non-terminated.

Features:

- Based on the proven, reliable, patented technology of our MVJ Series of HD video jacks
- Screw in, all metal jack design withstands vibration in mobile applications
- Rated at 3GHz: meets SMPTE 424M specifications for HD patching

MMVP48K175T:

- 1U/96 Patch-points
- Fully Normalled
- 75Ω Terminated
- Designation strip height: 0.380"



MMVP48K1NTAES:

- 1U/96 Patch-points
- Designed for AES/EBU Digital Audio
- Designation strip height: 0.380"



MMVP96K375T:

- 2U/192 Patch-points
- Fully Normalled
- 75Ω Terminated
- Designation strip height: 0.500"



Now available with

channel marking colour chips - sold separately

Patchbay Models:

| Model: | Description |
|--------------|---|
| MMVP48K175T | 1U, 2 x 48, Normalled, Terminated |
| MMVP48K1NT | 1U, 2 x 48, Normalled, Non-Terminated |
| MMVP48K1N75T | 1U, 2 x 48, Non-Normalled, Terminated |
| MMVP48K1NNT | 1U, 2 x 48, Non-Normalled, Non-Terminated |
| MMVP48K375T | 2U, 2 x 48, Normalled, Terminated |
| MMVP48K3NT | 2U, 2 x 48, Normalled, Non-Terminated |
| MMVP48K3N75T | 2U, 2 x 48, Non-Normalled, Terminated |
| MMVP48K3NNT | 2U, 2 x 48, Non-Normalled, Non-Terminated |
| MMVP96K375T | 2U, 4 x 48, Normalled, Terminated |
| MMVP96K3NT | 2U, 4 x 48, Normalled, Non-Terminated |
| MMVP96K3N75T | 2U, 4 x 48, Non-Normalled, Terminated |
| MMVP96K3NNT | 2U, 4 x 48, Non-Normalled, Non-Terminated |

Colour Chip Models:

| • | |
|--------|--|
| Model: | Description |
| K600 | Bag of 60 MMVP Colour Chips, 10 of each colour |
| K6002D | Bag of 50 MMVP Colour Chips, Red |
| K6003B | Bag of 50 MMVP Colour Chips, Orange |
| K6004B | Bag of 50 MMVP Colour Chips, Yellow |
| K6005N | Bag of 50 MMVP Colour Chips, Green |
| K6006L | Bag of 50 MMVP Colour Chips, Blue |
| K6009B | Bag of 50 MMVP Colour Chips, White |

Pass-Through I/O Panels

PT Series Audio Pass-Through I/O Panels are a perfect solution for anyone requiring front-of-rack access to their I/O's in any permanent or mobile studio environment.

All versions are hard-wired to two DB25 back panel connectors utilising the TASCAM DTRS standard pin-out.

Models:

| Model: | Description |
|----------------------|--|
| PT16FX2DB25 | (16 Female XLRs) |
| PT16MX2DB25 | (16 Male XLRs) |
| PT8FX8MX2DB25 | (8 Female & 8 Male XLRs) |
| PTAESEBU2DB25 | (8 Female & 8 Male XLRs in groups of four) |
| PT16TRS2DB25 | (16 1/4" TRS Jacks) |
| *DB25 Breakout Cable | (DB25M10XLRMXLRF) |

Features:

- Front-of-rack access to the back of your rack
- Input/Output module for any piece of equipment utilizing DB25, 1/4" TS/TRS, or Male/Female XLR connections (i.e. audio consoles, mic-pre's, channel strips, outboard gear, etc.)
- Increase the lifespan of expensive pieces of equipment by preserving their input/output connectors insertion/withdrawal cycle limitations
- DB25 connectors are wired to the TASCAM DTRS pin-out
- All Switchcraft® Audio Pass-through Panels come with removable custom marking strips.



Series 516: Rack & Panel Connectors (Commercial Grade Rectangular)

- Industry standard rack & panel connectors with highreliability contacts
- Hermaphroditic contacts provide extremely reliable connection
- Gold over nickel contact plating in thru-hole PCB, wirewrap, crimp or wire hole styles
- Crimp contacts can be ordered separately in bulk or on reel for automated insertion (1800 per reel)
- Contacts may be ordered separately for pre-wired or select position assembly
- From 20 ~ 120 pins, with actuator, polarizing and locknut options
- Plastic and metal hoods available with cable clamps for strain relief

Features:

- UL Recognized
- 0.150 (3.81) Contact Spacing x 0.130 (3.30) or 0.150 (3.81) Row Spacing with Staggered Grid
- Plug and Receptacle available with 20, 38, 56, 90 or 120 contact sizes
- Edacon hermaphroditic contact mating design
- Contact termination options include: Crimp, P.C. Tail, Wire Hole, Wire Wrap, & Taper Tail
- Mating and unmating simplified with actuating screws
- Optional covers with side or top entry cable clamp in plastic or metal material available for all connector sizes
- Versatile metal cover design permits assembly or disassembly after cabling is complete plus cable entry style flexability
- Actuating screws, locknuts, polarizing hardware, covers and contacts suitable for either plug or receptacle
- Polarizing hardware adjustable for 288 mating combinations
- Tools available for contact installation, removal, and crimping and polarizing changes



Specifications:

| Model: | 516 Series |
|------------------------------------|---|
| Insulator Material | Diallyl Phythalate or Thermoplastic Polyester, UL 94V-0, Colour: Green, or Polycarbonate, Colour: Grey |
| Contact Material | Phosphor Bronze Alloy CA-510 |
| Contact Plating | Gold over nickel for entire contact |
| Cover Material | Polycarbonate, Colour: Green, or Die-Cast Zinc, finished with grey enamel paint |
| Current Rating | 8.5 A |
| Contact Resistance | 10mΩ maximum |
| Dielectric Withstanding Voltage | 2000v AC RMS at sea level |
| Insulation Resistance | 5000M $Ω$ minimum |
| Operating Temperature | -65 ~ +125°C |
| Insertion and Withdrawal Force | 2 \sim 16oz (0.56 \sim 4.45N) per contact position |



| Network Gamera | 394 |
|------------------|-----------|
| Dome Cameras | 395 ~ 400 |
| Body Cameras | 401 ~ 403 |
| Speed Domes/PTZ | 404 ~ 409 |
| Discreet Cameras | 410 ~ 411 |

AVTECH





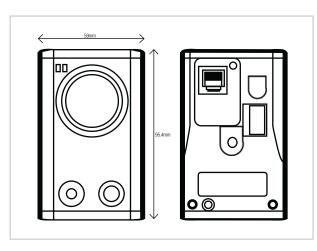
AVN80X: IVS 1.3 Megapixel Network Camera

This innovative and compact new network camera will provide an immediate remote notification to your iPhone, iPad Smartphone using AV Tech's mobile surveillance software - 'Eagle Eyes'.

Fast and simple to set-up on your network and link with your mobile device, the AVN80X features SD card support for video self-storage, as well as remote event notification from external triggers (such as PIRs or NO/NC switches on doors, windows etc), sending an immediate video of the incident; event to your iPhone/Android device.

Features:

- · Easy network setup with your iPhone, iPad, Smartphone
- 1.3 Megapixel live MOS sensor with HDTV 720p quality, allowing users to notice minor details more easily
- · SD card support for video storage
- Push Video support to send an event notification to your iPhone and Android phones immediately once the specified event type is triggered, and play video recording once you confirm the receipt
- · White LED built-in to illuminate the scene manually, scheduled by a timer, or triggered by a motion, an alarm, or an audio event
- External alarm I/O device connection
- Microphone & speaker built-in for two-way audio transmission
- · Remote Surveillance
 - Fully compatible with iPhone & iPad, Internet Explorer® and Windows® operating systems
 - operating systems
 Also accessible via web browsers (Mozilla Firefox®, Safari®,
 Google Chrome™ and Opera) on Windows® and Mac® operating
 systems and mobile devices (Blackberry® Symbian™, Windows®
 Mobile & Android™) from the web browser or our self-developed
 mobile program, EagleEyes (see page 426)



Network Specifications:

| Model: | AVN80X |
|--|--|
| Network Compression | H.264, MPEG4, MJPEG |
| Multiple Video Streaming (Encode Modes, IPS, Resolution) | 3 (H.264, MJPEG, MPEG4) |
| LAN Port / Speed | Yes, 10/100 Based-T Ethernet |
| Supported Protocols | DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, UPnP |
| Frame Rate | PAL:25 |
| Number of Online Users | 10 |
| Security | Multiple user access levels with password |
| Web Management | Web browsers, such as Internet Explorer, Mozilla Firefox, Google Chrome, Safari & Opera for single device access, or Free CMS software, Video Viewer, for up to 16 network camera control simultaneously |



Camera Specifications:

| Model: | AVN80X |
|-----------------------|--|
| Image Sensor | 1/3" Live MOS image sensor |
| Video Resolution | SXGA, SXVGA, 720P, VGA, QVGA |
| Min Illumination | 0.1 Lux / F1.5, 0 Lux (LED 0N) |
| Shutter Speed | 1/60 (1/50) to 1/100,000 sec. |
| S/N Ratio | More than 48dB (AGC off) |
| Lens | f3.8mm / F1.5 |
| Viewing Angle | 80.4° (Diagonal) |
| White LED | Yes (1W, 10m) |
| White Balance | ATW |
| AGC | Auto |
| IRIS Mode | AES |
| PIR Sensor | Detection Range 76° wide angle with up to 6m long distance at 2m height (under 30°C) |
| Micro SD Card Slot | Yes |
| External Alarm I/O | Yes |
| Microphone | Yes |
| Speaker | Yes |
| Power Source (±10%) | 5v/2A |
| Operating Temperature | -0° ~ 40°C |

Other Specifications:

| Model: | AVN80X |
|--------------------------------------|---|
| Mobile Surveillance | iPad, iPhone, Android mobile device |
| Push Video | Yes |
| Audio Detection | Yes |
| RTC (real-time clock) | Yes |
| Motion Detection | Yes |
| Digital Pan / Tilt / Zoom | Yes |
| Event Notification | FTP, Email, Push Video |
| Minimum Web Browsing Requirements | Pentium 4 CPU 1.3 GHz or higher, or equivalent AMD 256MB RAM, AGP graphics card, Direct Draw, 32MB RAM, Windows 7, Vista & XP, DirectX 9.0 or later, Internet Explorer 7.x or later |

AVTECH

• AVC482: Vari-focal Internal Dome Camera

1/3" Internal Colour Dome Camera.

Features:

- 1/3" colour CCD sensor with SONY Effio DSP
- High resolution
- Low light sensitivity of 0.05 Lux at F1.4
- F1.4 large aperture
- f4.0 ~ f9.0 mm vari-focal lens
- Easy to install, easy to use



Specifications:

| Model: | AVC482 |
|--------------------------|--|
| Pick up Element | 1/3" HR color CCD |
| Number of Pixel | 771(H) x 492(V) <ntsc>, 753(H) x 582(V) <pal></pal></ntsc> |
| Resolution | Super high resolution |
| Min. Illumination | 0.05 Lux, F1.4 |
| S/N Ratio | More than 48dB (AGC off) |
| Electronic Shutter | 1/60 (1/50) to 1/100,000 sec. |
| Lens | f3.8 ~ f9.5 mm, F1.4 |
| Lens Angle | 34.6° ~ 93.9° |
| Iris Mode | Yes |
| Smart zoom | AES |
| White Balance | ATW |
| Video Output | 1.0Vp-p composite, 75Ω |
| Power Source (±10%) | 12v DC |
| Power Consumption (±10%) | 70mA |
| Dimensions | 140(Ø) × 90(H) mm |

AVTECH

• **KPC133E:** 1/3" H.R Colour CCD IR Internal Camera

The KPC133E is a 520TVL Internal IR Dome, featuring 21 LEDs (with a range of up to 15 metres) and a 92.6° viewing angle.

Features:

- High sensitivity in the dark environment, 0.1Lux, F2.0, 0Lux (IR ON)
- Day and night features for 24 hour surveillance
- Excellent image quality (500 TVL High Resolution)
- 21 IR LEDs effective range reaches up to 15 metres



Specifications:

| Model: | KPC133E | |
|---------------------|--|--|
| Pick up Element | 1/3" H.R. color CCD image sensor | |
| Number of Pixel | 771(H) x 492(V) <ntsc>, 753(H) x 582(V) <pal></pal></ntsc> | |
| Resolution | 500TV lines | |
| Min. Illumination | 0.1 Lux / F2.0, OLux (IR LED ON) | |
| Effective Range | >15m | |
| IR LED | 21 units | |
| S/N Ratio | More than 48dB (AGC off) | |
| Electronic Shutter | 1/60(1/50) to 1/100,000 sec | |
| Lens | f3.6mm, F2.0 | |
| Lens Angle | 92.6° | |
| IRIS Mode | AES | |
| White Balance | ATW | |
| Video Output | 1.0 Vp-p composite, 75Ω | |
| Power Source | 12v DC, ±10% | |
| Current Consumption | 90mA (IR OFF), 280mA (IR ON)±10% | |
| Dimensions | 94(Ø) x 70(H) mm | |

AVK016ZP: Vari-Focal Internal Colour Dome Camera

This vari-focal dome camera is designed for the mid to high end market and features excellent performance under low Lux.

Equipped with F1.4 large aperture, this camera will be the best solution for a gloomy environment. Its f4.0 \sim f9.0mm vari-focal lens (Auto Iris) and its vandal-proof design makes this product versatile.

Features:

- 1/3" HR Color CCD
- F1.4 Large Aperture
- f4.0 ~ f9.0 mm Vari-focal Lens (Auto Iris)
- Supports 0.15 Lux at F1.4
- Vandal-proof housing design



| Model: | AVK016ZP |
|----------------------------|--|
| Pick up Element | 1/3" HR color CCD |
| Number of Pixel | 771(H) x 492(V) <ntsc>, 753(H) x 582(V) <pal></pal></ntsc> |
| Resolution | 520 TVL |
| Min. Illumination | 0.15 Lux, F1.4 |
| S/N Ratio | More than 48dB (AGC off) |
| Electronic Shutter | 1/60 (1/50) to 1/100,000 sec |
| Vari-focal Auto Iris Lens | f4.0 ~ f9.0mm |
| Lens Angle | 75° ~ 36° |
| Iris Mode | Auto Iris |
| White Balance | ATW |
| Vandal-Proof Rating | IPxx7 |
| Video Output | 1.0 Vp-p composite, 75 Ω |
| Power Source (±10%) | 12v DC |
| Current Consumption (±10%) | 85mA |
| Dimensions | 124.3(Ø) x 92(H) mm |
| Weight | 0.46kg |



• **ED610T:** 1/3" Vandal-proof Outdoor Dome Camera

 $8.5 \mathrm{mm}$ (1/3") vandel-proof outdoor day/night dome camera with WDR, automatic IR cut filter.

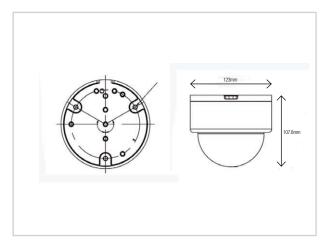
Features:

- Vandal-proof IP66 outdoor housing
- Super-high resolution technology (560TV lines)
- Built-in 3D noise reduction
- Day/night function with automatically swiveling IR cut filter
- Super HAD II sensor with 5 x better native light sensitivity
- On-screen programming
- 8 adjustable privacy zones
- Motion detecting with 4 adjustable zones
- Digital Wide Dynamic Range for properly exposed images
- Up to 32 x digital zoom
- 3-axis positioning for wall or ceiling mounting with flexible viewing angle
- Optional wall bracket (see below)



Specifications:

| Model: | ED610T |
|-------------------------------------|--|
| Sensor | 8.5mm (1/3") SONY Super HAD II CCD |
| Picture element | 752(H) x 582(V) |
| Horizontal resolution | 560TV lines |
| Sensitivity | 0.002 lux (sens-up x256), 0.05 lux / F = 1.2 |
| S/N ratio | 52dB (AGC off) |
| Gamma correction | 0.45 |
| OSD | Yes, with multiple functions |
| Day/night control | Automatically swiveling IR cut filter and enhanced b/w sensitivity |
| IR cut filter control | Auto / colour / b/w / EXT (external light sensor) |
| Lens | $2,\!8\sim10$ mm direct drive (DC), IR-corrected, ED glass, auto IR cut filter |
| Electronic Shutter | 1/50 ~ 1/100.000 |
| Back light compensation | OFF, BLC, HS BLC |
| White balance | ATW, AWB, AWC, manual, indoor, outdoor |
| AGC | Off, low, middle, high |
| 3D DNR (Dynamic Noise Reduction) | ON/OFF, adjustable level |
| Digital WDR (Wide Dynamic Range) | Outdoor/Indoor |
| Digital Slow Shutter | Off, auto: x 2 ~ x 256 selectable |
| Mirror | Off, mirror, V-flip, rotate |
| Digital zoom | ON/OFF, up to 32x |
| Motion detection | ON/OFF, 4 adjustable zones |
| Privacy zones | ON/OFF, 8 adjustable zones |
| Video output | BNC, 1,0 Vp-p, 75 Ω ; test video output 1,0 Vp-p, 75 Ω |
| Sync. mode | internal / line lock |
| Weatherproof rating | IP66 |
| Power source | 12v DC / 24v AC |
| Power consumption | 3W max. at 12v DC, 3 W max. at 24v AC |
| Ambiente temperature | 10° ~ +50°C |
| Dimensions | 123(Ø) x 107.8(H) mm |
| Weight | 0.74kg |



• ED WMA: Wall Mount Bracket

For use with ED610T Dome Camera.



| Model: | ED WMA |
|-------------|--|
| Material | Aluminium |
| Application | with ED 610 T, EDN 850 H and EDN 800 T |
| Dimensions | 150(W) x 110(H) x 170(D) mm |
| Max. load | 4 kg |
| Weight | 0.6kg |





• EHD525EX: 1/3" Rugged Dome Camera

 $8.5 \mathrm{mm}$ (1/3") day/night rugged dome camera, high resolution, automatic IR cut filter.

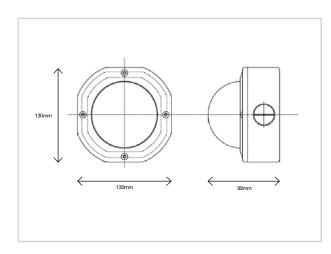
Features:

- Vandal-proof outdoor housing
- High resolution technology (520 TV lines)
- Sony Exview CCD sensor
- Day/night function with automatically swiveling IR cut filter
- Integrated tamper contact (micro switch)
- Integrated DC varifocal lens (f = 3,6 ~ 9 mm)
- Integrated heater
- Optional wall bracket



Specifications:

| Model: | EHD525EX |
|-------------------------------|--|
| Sensor | 8.5mm (1/3") SONY Exview CCD |
| Picture element | 752(H) x 582(V) |
| Horizontal resolution | 520TV lines |
| Sensitivity | 0.5 lux / F = 1.2 colour / 0.1 lux / F = 1.2 B/W |
| S/N ratio | >48dB |
| Gamma correction | 0.45 |
| Day/night control | automatically swiveling IR cut filter |
| Video output | 1 Vp-p composite PAL |
| Synchronisation | internal/line-lock (only 24v AC) |
| Line-lock (24v AC) | ON/OFF |
| Back light compensation | ON/OFF |
| Auto white balance | Yes |
| AGC | ON/OFF |
| Electronic shutter | 1:50 ~ 1:100.000 |
| Tamper contact | micro switch |
| Lens | DC varifocal lens, $f = 3.6 \sim 9 \text{ mm}$ |
| Heater | thermostat controlled |
| Heater activating temperature | +10°C |
| Casing | zink diecasted, dome polycarbonate, clear |
| Weatherproof rating | IP66 |
| Power source | 12v DC ± 10%, 24v AC ± 10% |
| Power consumption | 5W max. (15 W with activated heater) |
| Ambient temperature | -40° ~ +50°C |
| Dimensions | 130(W) x 130(H) x 99(D) mm |
| Weight | 1.7kg |



• **EHDWMA:** Wall Mount Bracket

For use with EHD525EX Dome Camera.



| Model: | EHDWMA |
|-------------|-----------------------------|
| Material | Aluminium |
| Application | with EHD camera series |
| Dimensions | 150(W) x 110(H) x 170(D) mm |
| Max. load | 4kg |
| Weight | 0.6kg |



- EBD330A/W: 1/3" Day/Night Camera with IR LED-White
- EBD330A/B: 1/3" Day/Night Camera with IR LED-Grey
- AP12A122EO: Power Supply 230v AC/12v DC

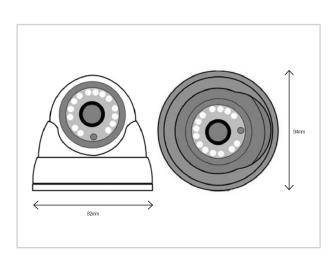
 $8.5 \mathrm{mm}\,(1/3\mathrm{''})\,\mathrm{day/night}\,\mathrm{outdoor}\,\mathrm{IR}\,\mathrm{camera}, 480\mathrm{TV}\,\mathrm{lines}, \mathrm{IP66}, 3.6 \mathrm{mm}\,\mathrm{lens}, 12\mathrm{v}\,\mathrm{DC}, \,\mathrm{colour}:$

Features:

- High resolution technology (480TV lines)
- 20 powerful IR LED, controlled by internal twilight switch
- Splitted front glass for low internal IR reflection
- IP66 weatherproof outdoor housing
- Anthracite or white casing available
- IR distance up to 20 metres
- 3-axis adjustment of camera module
- * The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.



| Model: | EBD330A |
|-------------------------|---|
| Sensor | 8.5mm (1/3") SONY CCD |
| Picture element | 752 x 582 (PAL) |
| Horizontal resolution | 480TV lines |
| Sensitivity | 0.5 lux / F = 1.2 (IR LED off) |
| IR LED | $20\mbox{x},$ controlled by internal twilight switch, splitted front glass for low internal IR reflection |
| IR LED lifetime | up to 50.000h |
| IR range | $5\sim20\ m$ (depending on reflections in scenery) |
| Video output | 1 Vp-p composite PAL |
| S/N ratio | over 48dB |
| Gamma correction | 0.45 |
| Back light compensation | Yes |
| Auto white balance | Yes |
| AGC | Yes |
| Synchronisation | Internal |
| Electronic shutter | 1:50 ~1:100.000 |
| Lens | 3.6 mm / F2, M12 x P0,5 |
| Mounting | Ceiling or wall mounting, 3-axis adjustment of camera module |
| Casing | Aluminium, colour white or anthracite |
| Weatherproof rating | IP 66 |
| Power source | 12v DC ± 10% |
| Power consumption | 6W max |
| Ambient temperature | -10°C ~ +50°C |
| Dimensions | 94(Ø) x 82(H) mm |
| Weight | 0.45kg |



• KPC138E: 1/3" H.R Colour CCD IR Bullet Camera

The KPC138E is a high resolution IR Bullet Camera, 21LEDs 15 metre range 92.6° VA. For indoor and outdoor applications.

- 1/3" H.R. colour CCD image sensor
- High resolution for clearer and sharper images of 500TVL
- Low light sensitivity of 0.6 Lux at F2.0
- Day and night features for 24-hour surveillance
- Excellent image quality
- Auto Electronic Shutter built-in
- Signal-to-noise ration of 48dB
- IP68 standard approved outdoor housing
- IR LED effective range reaches up to 15 metres



| Model: | KPC138E |
|---------------------------|--|
| Pick up Element | 1/3" H.R. color CCD image sensor |
| Number of Pixel | 771(H) x 492(V) <ntsc>, 753(H) x 582(V) <pal></pal></ntsc> |
| Resolution | 500TV lines |
| Min. Illumination | 0.6Lux / F2.0, 0Lux (IR ON) |
| IR LED | 21 units |
| Effective Range | Up to 15m |
| S/N Ratio | More than 48dB (AGC off) |
| Electronic Shutter | 1/60 (1/50) to 1/100,000 sec. |
| Lens Mount | f3.6mm / F2.0 |
| Lens Angle | 92.6° |
| IRIS Mode | AES |
| White Balance | ATW |
| IP Rating | IP68 |
| Video Output | 1.0 Vp-p composite, 75 ohms |
| Power Source | 12v DC ± 10% |
| Current Consumption(±10%) | 90mA (IR OFF), 280mA (IR ON) |
| Dimensions | 55(W) x 79(H) x 140(L) mm |



- ECZ330E/P: 8.5 mm (1/3") Day/Night Camera with IR LED, High Res
- ECZ230E/P: 8.5 mm (1/3") Day/Night Camera with IR LED, Standard High Res
- AP121A122E0: Power Supply, 230v AC/12v DC

- 14 powerful IR LED, video signal controlled variable LED power
- Splitted front glass for low internal IR reflection
- IR range 5 ~ 20 metres
- IP66 weatherproof outdoor housing
- Integrated wall bracket
- Mounting hole at lower and upper side for camera bracket
- * The IR illumination range depends on the location, particularly with regard to the reflection of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.



| Model: | ECZ330E |
|------------------------------|--|
| Sensor | 8.5mm (1/3") SONY IT CCD |
| Picture element | 752 x 582 (PAL) |
| Horizontal resolution | 520TV lines |
| Sensitivity | 0.5 lux / F = 1.2 (IR LED off) |
| IR LED | 14x, video signal controlled variable LED power, splitted front glass for low internal IR reflection |
| IR LED lifetime | up to 50.000 h |
| IR range | 5 ~ 20 m* |
| Video output | 1 Vp-p composite PAL |
| S/N ratio over | 48dB |
| Gamma correction | 0.45 |
| Synchronisation | Internal |
| Back light compensation | Yes |
| Auto white balance | Yes |
| AGC | Yes |
| Electronic shutter | Auto 1:50 ~ 1:100.000 |
| Lens | 4.3mm / F2, M12 x P0,5 |
| Mounting | 6.35mm (1/4") mounting hole at lower and upper side for camera bracket (incl.) |
| Casing | Aluminium |
| Weatherproof rating | IP66 |
| Power source | 12v DC ± 10% |
| Power consumption | 6W max |
| Ambient temperature | -10°C ~ +50°C |
| Dimensions without sunshield | 55(Ø) x 72(D) mm |
| Dimensions with sunshield | 62(W) x 58(H) x 82(D) mm |
| Weight | 0.25 kg |

KPC131E: High Resolution Colour Body Internal Camera

Features:

- 1/3" HR Colour CCDLow light sensitivity of 0.1 Lux at F2.0
- Built-in microphone



| Model: | KPC131E |
|---------------------|--|
| Pick up Element | 1/3" HR colour CCD image sensor |
| Number of Pixel | 771(H) x 492(V) <ntsc>, 753(H) x 582(V) <pal></pal></ntsc> |
| Resolution | 500TV lines |
| Min. Illumination | 0.1 Lux / F2.0 |
| S/N Ratio | More than 48dB |
| Electronic Shutter | 1/60 (1/50) to 1/100,000 sec. |
| Lens Mount | CS Mount |
| IRIS Mode | AES, VD, DD |
| BLC | ON/OFF |
| Gain Control | AGC, MAX |
| Flickerless | ON/OFF |
| Video Output | 1.0 Vp-p composite, 75 ohms |
| Microphone | Built-in |
| Power Source | 12v DC ±10% |
| Current Consumption | 80mA ±10% |
| Dimensions | 60(W) x 50(H) x 117(L) mm |

AVK522ZP: IVS Zoom Lens Internal Dome Colour Camera

Controllable Dome Camera, allowing users to manually adjust and set camera parameters from a DVR without additionally connecting RS485 control wires.

It can be used with the AV Tech DCCS DVR series for direct control, or with other brand DVRs controlled via the optional DCCS control box, AVK-T1.

Features:

- Supports DVR/Camera Communication System (DCCS) Technology
- No need to additionally connect RS485 control wires for camera control because the control signals can be transferred by coaxial cables directly
- Camera installation is highly simplified to lower labor cost and working hours

Smart Zoom:

 Zooms in on the object which triggers motion or alarm recording automatically, excellent for evidence collecting



| Model: | AVK522ZP |
|--------------------------|--|
| Pick up Element | 1/3" HR colour CCD |
| Number of Pixel | 771(H) x 492(V) <ntsc>, 753(H) x 582(V) <pal></pal></ntsc> |
| Resolution | 520TVL |
| Min. Illumination | 0.15 Lux / F1.4 |
| S/N Ratio | More than 48dB (AGC off) |
| Electronic Shutter | 1/60 (1/50) to 1/100,000 sec |
| Lens | f4.0mm ~ f9.0mm |
| Lens Angle | 75° ~ 36° |
| Iris Mode | AES(Default) / AI |
| Smart zoom | Yes |
| White Balance | ATW |
| Video Output | 1.0 Vp-p composite, 75Ω |
| Power Source (±10%) | 12v DC, 2.9WΩ |
| Power Consumption (±10%) | 240mA |
| Dimensions | 124.3(Ø) x 102(H) mm |

Interactive & Projectors

AVK544ZP/22X: 22x Speed Dome Internal PTZ Camera

Features:

- Supports DVR/Camera Communication System (DCCS) Technology
- No need to additionally connect RS485 control wires for camera control as the control signals can be transferred by coaxial cables directly where DVR supports DCCS technology
- Advanced Auto Tracking accuracy
- Rigid & High-Speed Pan/Tilt Mechanism with Two-Million Rotation Test Passed for longer operating lifetime
- Pelco-D & Pelco-P Support for fully compatibility
- Flexible Colour/Shutter Parameter Adjustment adapts to light conditions
- Hot Point
- Graphical On-Screen Display
- Easy operation via Keyboard Controller
- Up to 256 preset points & eight preset groups + Auto Scan
- IP66



| Model: | AVK544ZP/22X |
|-------------------------------|---|
| Signal System | NTSC or PAL |
| Pick-up Element | 1/4" Sony Color Super HAD CCD image sensor |
| Number of Pixels | 768(H)* x 494(V) <ntsc>, 752(H)* x 582(V) <pal></pal></ntsc> |
| Resolution | High Resolution |
| Min. Illumination | 0.6 Lux, F1.6 |
| S/N Ratio | More than 48dB (AGC off) |
| Video Output | 1.0 Vp-p. 75Ω |
| BLC | ON/OFF |
| Gain Control | Low, Medium & High/Off |
| Sharpness | Auto, Low, Medium, High |
| White Balance | Auto, Indoor 1, Indoor 2, Sun, Cloudy * Indoor1 = 9000K; Indoor2 = 3000K; Sun = 5500K; Cloudy = 7000K |
| Camera Title | 10 characters or symbols |
| Preset Points and Sequence | Total 8 groups, 256 programmable preset points * The sequence of all the preset points will follow the order of the minimal panning route. |
| Auto Tracking | Yes |
| Baud Rate | 9600 |
| LENS: Focal Length | f3.9 ~ 85.9mm |
| LENS: F-number | F1.6(Wide) ~ 3.7(Tele) |
| LENS: Viewing Angle | 4° ~ 60° |
| LENS: Auto Electronic Shutter | 1/60 (1/50) to 1/100,000 sec |
| LENS: Auto Focus | Always, PTZ, Z Only, P Only |
| MECHANISM: Pan Range | 360° |
| MECHANISM: Pan Speed | 360°/1 sec * The pan speed can be adjusted according to the different pan speed mode. |
| MECHANISM: Tilt Range | 90° |
| MECHANISM: Tilt Speed | 0° ~ 90° under 1 sec |
| MECHANISM: Zoom Ratio | 22 x optical zoom |
| MECHANISM: Zoom Speed | Approx. 7s (Tele ~ Wide) |
| IP Rating | IP66 |
| Operating Temperature | -20° ~ 40°C |
| Storage Temperature | 0° ~ 70°C |
| Power Source (±10%) | 12v DC |
| Current Consumption | 1.5A |
| Dimensions | 323(W) x 339(H) mm (Bracket included) |
| Weight | 1.2kg |



AVK584: 22x Speed Dome External PTZ Camera

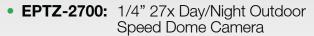
Features:

- Supports DVR/Camera Communication System (DCCS) Technology
- No need to additionally connect RS485 control wires for camera control as the control signals can be transferred by coaxial cables directly where DVR supports DCCS technology.
- Advanced Auto Tracking accuracy
- Rigid & High-Speed Pan/Tilt Mechanism with Two-Million Rotation Test Passed - for longer operating lifetime
- Pelco-D & Pelco-P Support for fully compatibility
- Flexible Colour/Shutter Parameter Adjustment adapts light conditions
- Excellent outdoor ID design with cable management
- Graphical On-Screen Display
- Easy Operation via Keyboard Controller
- Up to 256 preset points & eight preset groups plus Auto Scan
- ▶ IP66



| lodel: | AVK584 |
|--------------------------------|---|
| gnal System | NTSC or PAL |
| ck-up Element | 1/4" Sony Color Super HAD CCD image sensor |
| umber of Pixels | 768(H)* x 494(V) <ntsc>, 752(H)* x 582(V) <pal></pal></ntsc> |
| esolution | High Resolution |
| in. Illumination | 0.6 Lux, F1.6 |
| 'N Ratio | >48dB (AGC off) |
| deo Output | 1.0 Vp-p. 75 ohm |
| LC | ON/OFF |
| ain Control | Low, Medium & High / Off |
| narpness | Auto, Low, Medium, High |
| hite Balance | Auto, Indoor 1, Indoor 2, Sun, Cloudy * Indoor1 = 9000K; Indoor2 = 3000K; Sun = 5500K; Cloudy = 7000K |
| amera Title | 10 characters or symbols |
| reset Points and Sequence | Total 8 groups, 256 programmable preset points * The sequence of all the preset points will follow the order of the minimal panning route. |
| uto Tracking | Yes |
| aud Rate | 9600 |
| ENS: Focal Length | f3.9 ~ 85.9 mm |
| ENS: F-number | F1.6 (Wide) ~ 3.7 (Tele) |
| ENS: Viewing Angle | 4° ~ 60° |
| ENS: Auto Electronic Shutter | 1/60 (1/50) to 1/100,000 sec |
| ENS: Auto Focus | Always, PTZ, Z Only, P Only |
| ECHANISM: Pan Range | 360° |
| ECHANISM: Pan Speed | 360°/1 sec * The pan speed can be adjusted according to the different pan speed mode. |
| ECHANISM: Tilt Range | 90° |
| ECHANISM: Tilt Speed | 0° ~ 90° under 1 sec |
| ECHANISM: Zoom Ratio | 22 x optical zoom |
| ECHANISM: Zoom Speed | Approx. 7s (Tele ~ Wide) |
| Rating | IP66 |
| mbient Operating emperature | -20° ~ 50°C (-4° ~ 122 °F) |
| an | 40°C on, 30°C off |
| eater | 5°C on, 15°C off |
| ower Source (±10%) | 12v DC |
| urrent Consumption | 3A (max) |





• **EPTZ-2700 I:**1/4" 27x Day/Night Indoor Speed Dome Camera

Features:

- 27 x optical zoom (+10 x digital zoom)
- High resolution technology (480TV lines)
- Integrated DSS digital slow shutter
- Flickerless function
- IP66 outdoor model and indoor model available
- Several built-in protocols
- 192 programmable preset positions
- 4 programmable patterns
- 4 alarm inputs, 2 alarm outputs with tour/position auto triggering





Functions:

| Model: | EPTZ-2700 / EPTZ-2700 I |
|-------------------------------------|---|
| Communication | RS-485 |
| Built-in protocols | Pelco-P / Pelco-D / EverFocus / Samsung (El.) / Panasonic |
| Communication speed | 1200 / 2400 / 4800 / 9600 bps |
| Address editable through DIP switch | Yes |
| Speed dome address range | 1 ~ 255 |
| Horizontal rotation speed | 0.1° / sec. ~ 360° / sec. |
| Horizontal rotation range | 360° unlimited rotation |
| Tilt rotation range | 180° tilt motion with electronic auto flip |
| Day / night switching | Manual, automatic, by external contact (via alarm in) |
| Auto zoom speed control | Auto-adjustment of PT control speed acc. to zoom position |
| Autopan, 2 points scanning | Adjustable speeds, adjustable end stops |
| Autopan speed | 1 ~ 255 steps |
| Dwell time (2 points) | 1 ~ 99 sec |
| Preset positions | 192 |
| Running to position speed | >360°/sec |
| Pattern | 4 x, 1 minute max. each |
| Auto resume | After inactivity 0,5 ~ 60 min. or after power-up |
| Auto resume actions | Home position, tour 1, pattern 1, autopan, previous mode |
| Manual pan speed | 0,1° ~ 120°/sec |
| Manual tilt speed | 0,1° ~ 60°/sec |
| Dwell time at preset position | 1 ~ 60 sec |
| Tours | 16 |
| Presets per tour | 16 preset positions |
| Position accuracy | ± 0,1° |
| Alarm | 4 inputs, 2 outputs, with tour/position auto triggering |
| Proportional pan speed | Yes |
| Built-in menu for functions | Yes, multiline OSD |

| Model: | EPTZ-2700 | EPTZ-2700 I |
|--------------------------|---|-------------------------------|
| Sensor | 6.35 mm (1/4") CCD SONY Exv | riew HAD |
| Effective pixels | 440.000 | |
| Horizontal resolution | 480TV lines | |
| Sensitivity | 1lux (F 1.6, 50 IRE - colour) / 0 | 1,1 lux (F 1.6, 50 IRE - B/W) |
| Video output | 1 Vp-p (sync. negative), BNC | |
| S/N ratio | Over 50dB | |
| Sync. system | Internal | |
| Electronic shutter | 1/50 ~ 1:10.000 sec., 7 steps | |
| DSS digital slow shutter | ON/OFF, 32 x max. | |
| White balance | Auto, indoor, outdoor | |
| Back light compensation | ON/OFF | |
| Gain | Auto | |
| Flicker cancel | ON/OFF | |
| Zoom ratio | 27 x optical zoom (+10x digital | zoom, max. 270x) |
| Focus length | f = 3,25 (wide) ~ 88 (tele) mm | |
| Aperture | F 1.5 (wide) ~ 3.6 (tele) mm | |
| Viewing angle | 58° (wide end) to 2,3° (tele end | d) |
| Minimum object distance | 100mm (wide end) to 1000mm | r (tele end) |
| Focusing method | Auto, one-push AF, manual | |
| Weatherproof rating | IP 66 | IP 30 |
| Power source | 24v AC | |
| Power consumption | 14W max | |
| Fan | thermostat controlled | |
| Ambient temperature | -40°C ~ +40°C | 0°C ~ +40°C |
| Humidity | ~ 90% | |
| Dimensions | 210(Ø) x 250(H) mm (incl. sunshield) | 160(Ø) x 220(H) mm |
| Weight | 5.2kg (incl. sunshield) | 3.0kg |



• EPTZ3650: 1/4" 36x Day/Night Outdoor

Speed Dome with Auto tracking

• **EPTZ3650I:** 1/4" 36x Day/Night Indoor Speed Dome with Auto-tracking

Features:

- 36 x optical zoom (+12 x digital zoom)
- High resolution technology (up to 570TV lines B/W mode)
- Smart auto tracking functions
- Automatic exposure control
- Integrated DSS digital slow shutter
- Integrated Wide Dynamic Range
- Flickerless function
- IP66 outdoor model and indoor model available
- Several built-in protocols
- 192 programmable preset positions
- 4 programmable patterns
- 8 freely adjustable privacy zones
- $\bullet\,$ 4 alarm inputs, 2 alarm outputs with tour/position auto triggering





Functions:

| Model: | EPTZ3650 / EPTZ3650 I |
|--|---|
| Communication | RS-485 |
| Built-in protocols | Pelco-P, Pelco-D, EverFocus, Samsung (El.), Panasonic |
| Communication speed | 1200, 2400, 4800, 9600 bps |
| Address editable through DIP switch | Yes |
| Speed dome address range | 1 ~ 255 |
| Auto tracking tracking | Mask, pan/tilt limits, manual tracking |
| Horizontal rotation speed | 0.1° / sec. ~ 360° / sec. |
| Horizontal rotation range | 360° unlimited rotation |
| Tilt rotation range | 180° tilt motion with electronic auto flip |
| Day / night switching | Manual / automatic / by external contact (via alarm in) |
| Auto zoom speed control | Auto-adjustment of PT control speed acc. to zoom position |
| Autopan, 2 points scanning | Adjustable speeds, adjustable end stops |
| Autopan speed | 1 ~ 255 steps |
| Dwell time (2 points) | 1 ~ 99 sec. |
| Preset positions | 192 |
| Running to position speed | up to 360° / sec. |
| Pattern | 4 x, 1 minute max. each |
| Auto resume | After inactivity 0,5 ~ 60 min. or after power-up |
| Auto resume actions | Home position, tour 1, pattern 1, autopan, previous mode |
| Manual pan speed | 0.1° ~ 120° / sec. |
| Manual tilt speed | 0.1° ~ 60° / sec. |
| Dwell time at preset position | 1 ~ 60 sec. |
| Tours | 16 |
| Presets per tour | 16 preset positions |
| Position accuracy | +/- 0,1° |
| Alarm | 4 inputs, 2 outputs, with tour/position auto triggering |
| Proportional pan speed | Yes |
| Privacy zones | 8, freely adjustable, 10 colours / mosaic |
| Built-in menu for functions | Yes, multiline OSD |

| Model: | EPTZ3650 | EPTZ3650I |
|--------------------------|---|---------------------------------|
| Sensor | 6.35 mm (1/4") CCD SONY Exv | riew HAD |
| Effective pixels | 440.000 | |
| Horizontal resolution | 530TV lines (colour) / 570 TV li | nes (B/W) |
| Sensitivity | 1.4 lux (F 1.6, 50 IRE - colour) | / 0.1 lux (F 1.6, 50 IRE - B/W) |
| Video output | 1 Vp-p (sync. negative), BNC | |
| S/N ratio | Over 50dB | |
| Sync. system | Internal | |
| Electronic shutter | 1/50 ~ 1:10.000 sec., 7 steps | |
| DSS digital slow shutter | ON/OFF, 50 x max. | |
| White balance | Auto / indoor / outdoor / one-pu | ush / manual |
| Back light compensation | ON/OFF | |
| Gain | Auto | |
| Exposure control | Automatic | |
| Flicker cancel | ON/OFF | |
| WDR Wide Dynamic Range | ON/OFF | |
| Zoom ratio | 36x optical zoom (+12x digital | zoom, max. 432x) |
| Focus length | f = 3,4 (wide) ~ 122,4 (tele) m | m |
| Aperture | F 1.6 (wide) ~ F 4.5 (tele) | |
| Viewing angle | 57.8° (wide end) to 1.7° (tele e | end) |
| Minimum object distance | 320mm (wide end) to 1500mm | (tele end) |
| Focusing method | Auto, one-push AF, manual | |
| Weatherproof rating | IP 66 | IP 30 |
| Power source | 24v AC | |
| Power consumption | 14W max. | |
| Fan | Thermostat controlled | |
| Ambient temperature | -40°C ~ +40°C | 0°C ~ +40°C |
| Humidity | ~ 90% | |
| Dimensions | 210(Ø) x 250(H) mm (incl. sunshield) | 160(Ø) x 220(H) mm |
| Weight | 5.2 kg (incl. sunshield) | 3.0kg |



- **EPTZ-PB-A:** Mounting Adaptor for EPTZ PLM or EPTZ CNM
- EPTZ-PB-P12: Converter 230v AC to 12v DC/500 mA

Features:

- Vandal-proof metal housing
- Dual power input 100 ~ 120v AC / 220 ~ 240v AC
- Designed for direct speed dome mount (EPTZ series with wall
- Separate installation possible (blind cover for cable hole in package)
- Universal mounting adaptor for additional equipment (video server, twisted pair transmitter, fiber optic transmitter)
- Optional 110/230v AC to 12v DC converter for additional equipment
- Mounting option (optional adaptor) to pole mount and corner





EPTZ PBOX with speed dome EPTZ 3650



EPTZ PBOX inside view

| Model: | EPTZ-PBOX |
|-------------------------------------|---|
| Power source | 100 ~ 120v AC, 60Hz or 220 ~ 240v AC, 50Hz (set by internal switch), 120 VA max. |
| Power output | 24v AC, 3.5 A max. |
| Connectors | Power in: 3x screwless terminal Power out: 5,5mm power plug Molex connector for 12v DC converter RS-485, alarm: 2 x 10-pin screwless terminal, looped |
| Ambient temperature | -20°C ~ +40°C |
| Dimensions | 270(W) x 245(H) x 80.5(D) mm (with cable gland / hinge / flanges) |
| Dimensions universal mounting plate | 120 x 77 mm |
| Weight | 4.1kg |

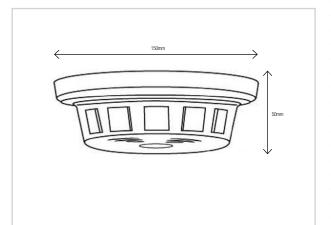
- **ESD200E:** 1/3" Colour Smoke Detector Camera
- AP12A122E0: Power supply, 230v AC/12v DC, 600 mA

8.5mm (1/3") colour smoke detector camera, incl lens f = 4.3mm, 12v DC

Features:

- Compact size
- Discreet surveillance through covert smoke detector casing





| Model: | ESD200E |
|-------------------------|----------------------------|
| Sensor | 8.5mm (1/3") SONY CCD |
| Picture element | 500 x 582 (PAL) |
| Horizontal resolution | 340TV lines |
| Sensitivity | 0.3 lux / F = 1.2 |
| Video output | 1 Vp-p composite PAL, BNC |
| S/N ratio | Over 48 dB |
| Gamma correction | >0.45 |
| Synchronisation | Internal |
| Back light compensation | Yes |
| Auto white balance | Yes |
| AGC | Yes |
| Electronic shutter | 1:50 ~ 1:100.000 |
| Number of cameras | 1 |
| Lens | f = 4,3mm |
| Lens mount | M12 x P 0.5 |
| Power source | $12v DC \pm 10\%$, 200 mA |
| Ambient temperature | 0°C ~ +50°C |
| Dimensions | 150(Ø) x 50(H) mm |
| Weight | 0.14 kg |

• EM200E: 1/3" Colour Metal Case Camera

Features:

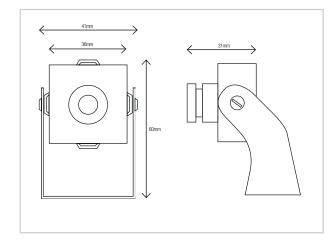
- Compact size for discreet surveillance
 Exchangeable board lens included (EM 200 E also 3.7mm pinhole lens)

Models:

| Model: | Description |
|-------------|---|
| EM200E/P-3 | 8.5 mm (1/3") colour metal case camera, incl. lens $f=3,6$ mm, 12v DC |
| EM200E/P-3P | 8.5 mm (1/3") colour metal case camera, incl. pinhole lens $f=3,7$ mm, 12v DC |
| EM200E/P-00 | 8.5 mm (1/3") colour metal case camera, without lens, 12v DC |
| AP12A122E0 | Power supply, 230v AC/12v DC, 600 mA |



| Model: | EM200E |
|-------------------------|--|
| Sensor | 8.5 mm (1/3") SONY CCD |
| Picture element | 500 x 582 (PAL) |
| Horizontal resolution | 340TV lines |
| Sensitivity | 0.3 lux, F = 1.2 |
| S/N ratio | over 48 dB |
| Gamma correction | >0.45 |
| Video output | 1 Vp-p composite PAL, BNC |
| Synchronisation | Internal |
| Back light compensation | Yes |
| Auto white balance | Yes |
| AGC | Yes |
| Electronic shutter | 1:50 ~ 1:100.000 |
| Lens | f = 3.6mm Pinhole lens $f = 3.7$ mm |
| Lens mount | M12 x P 0,5 |
| Power source | 12v DC ± 10%, 200 mA |
| Ambient temperature | 0°C ~ +50°C |
| Dimensions (WxHxD) | 41(W) x 60(H) x 31(D) mm |
| Weight | 0.18 kg |





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Brackets



Paragon Real-time HD DVR

Rs

AVTECH



AVD744D:

4 Channel H.264 IVS 1TB HDD DVR

AV Tech's 'IVS' (Intelligent Video Surveillance) Series are the world's first DVRs to fully integrate PC, mobile phone/PDA and CCTV technology.

These intelligent DVRs realise active call-out notifications to smart phones for instant remote surveillance, supporting all popular smart phone platforms such as iPhone, BlackBerry, Nokia Symbian, Android and Windows Mobile.

An incredibly high specification DVR at a surprisingly low cost!

PRIEST METAL

Features:

• Remote Surveillance

- Mobile surveillance via our self-developed, free software application
 'Eagle Eyes' is supported on all popular mobile platforms such as iPhone,
 BlackBerry, Nokia Symbian, Android and Windows Mobile.
- Network/remote surveillance via the licensed software 'Video Viewer', Internet Explorer, Mozilla Firefox or Google Chrome web browsers; QuickTime player supported for up to 10 user logins simultaneously.

• iPhone Push Notification

Supports pending Push Notification to iPhones for instant event notification of human detection

• Intelligent Surveillance

- Virtual Fence; an intruder virtual detection line can be set to detect intruders crossing a specified line
- Flow Counting; a virtual detection line can be set to detect the direction of pedestrians for flow counting
- Individual Channel Motion Recording; only channels detecting activity will record, effectively saving significant amounts of hard disk space and ensuring maximum recording time.
- Supports pre-alarm recording

• USB Mouse Control with GUI OSD

• DVR~Camera Communication System (DCCS)

- For PTZ and zoom lens controllable cameras, both video signal and control signal are transmitted down one coaxial cable, removing the need for an additional RS485 control cable
- Camera installation is significantly simplified, reducing labour costs and working hours

Remote Independent Operation

 Allowing remote users to view/monitor live/playback images independently and privately from the local site view

H.264 Video Compression Technology

- Significantly improved image quality for live, recorded and network video broadcast
- Recording file size is minimized for maximum recording times and reduced hard disk space use
- Lower bit rate for faster image transfer over network

Multiplex

 Allows live display, record, playback, backup and network operation at the same time

Backup Function

- Supports DVD writer, USB flash drive and network backup

Audio / Video Support

- 4 audio In, 1 Audio out
- Built-in VGA interface

| Model: | AVD744D |
|--|--|
| Video System | NTSC, PAL (auto detection) |
| Video Compression Format | H.264 |
| Video Input | 8 Channels (Composite Video Signal 1 Vp-p 750 BNC) |
| Video Output (BNC) | Main Monitor: For stable display Call Monitor: For sequence display |
| Video Output (VGA) | Built-in VGA output for LCD monitor |
| Audio Input / Output | 4 audio inputs, 1 audio output (Mono) |
| Multiplex Operating | Supports live display, recording, playback, backup, and network simultaneously |
| Maximum Recording Rate | eq:Frame: 704 x 480 pixels with 30IPS <ntsc>, 704 x 576 pixels with 25IPS <pal>, Field: 704 x 240 pixels with 60IPS <ntsc>, 4 x 288 pixels with 50IPS <pal>, CIF: 352 x 240 pixels with 120IPS <ntsc>, 352 x 289 pixels with 100IPS <pal></pal></ntsc></pal></ntsc></pal></ntsc> |
| DCCS Support | Yes (All channels) |
| IVS Support | Yes (4 channels) |
| Recording Mode | Manual, Timer, Motion, Alarm, Remote |
| Recording Quality Options | Best, High, Normal and Basic |
| Pre-alarm Recording | Yes (8MB) |
| HDD Type | SATA |
| HDD Storage | With DVD Writer Model: Accommodates 1 SATA HDD (1HDD capacity up to 2TB) |
| Quick Search | Time, Motion, Alarm search mode |
| Backup Device | DVD writer (optional), USB flash drive, network |
| Compression Format | H.264 |
| Network Live Audio | Yes |
| Ethernet | 10, 100 Base-T |
| Network Protocol | TCP/IP, PPPOE, DHCP and DDNS (Dynamic IP) |
| Network Surveillance Interface | Licensed software "Video Viewer", Internet Explorer, Mozilla Firefox or Google Chrome web browser, QuickTime player Network Surveillance Interface (10 users access simultaneously) |
| Remote Independent Operation | Yes |
| Event Notification | By FTP, e-mail |
| R.E.T.R. (Remote Event Trigger Recording) | Yes |
| IR Remote Control | Yes |
| Mobile Surveillance | Yes |
| Motion Detection Area | 16×12 grids per channel |
| Motion Detection Sensitivity | 4 adjustable parameters for accurate detection |
| PTZ Control | Yes |
| External Alarm | 4 inputs, 1 output |
| Picture Zoom | 2 x digital zoom |
| User Level | Administrator & Operator |
| Video Loss Detection | Yes |
| Camera Title | Supports up to 6 letters |
| Video Adjustable | Hue, Color, Contrast, Brightness |
| Power Source (±10%) | 19v DC |
| Power Consumption (±10%) | <42W |
| Operating Temperature | 10 ~ 40°C (50 ~ 104°F) |
| System Recovery | System auto recovery after power failure |
| Dimensions | 375(W) × 61(H) × 281(D) mm |

Interactive & Projectors

AVD746D:

8 Channel H.264 IVS,1TB HDD DVR

AV Tech's 'IVS' (Intelligent Video Surveillance) Series are the world's first DVRs to fully integrate PC, mobile phone/PDA and CCTV technology.

These intelligent DVRs realise active call-out notifications to smart phones for instant remote surveillance, supporting all popular smart phone platforms such as iPhone, BlackBerry, Nokia Symbian, Android and Windows Mobile.

An incredibly high specification DVR at a surprisingly low cost!



• Remote Surveillance

- Mobile surveillance via our self-developed, free software application 'Eagle Eyes' is supported on all popular mobile platforms such as iPhone, BlackBerry, Nokia Symbian, Android and Windows Mobile.
- Network/remote surveillance via the licensed software 'Video Viewer', Internet Explorer, Mozilla Firefox or Google Chrome web browsers; QuickTime player supported for up to 10 user logins simultaneously.

• iPhone Push Notification

Supports pending Push Notification to iPhones for instant event notification of human detection

• Intelligent Surveillance

- Virtual Fence; an intruder virtual detection line can be set to detect intruders crossing a specified line
- Flow Counting; a virtual detection line can be set to detect the direction of pedestrians for flow counting
- Individual Channel Motion Recording; only channels detecting activity will record, effectively saving significant amounts of hard disk space and ensuring maximum recording time.
- Supports pre-alarm recording

• USB Mouse Control with GUI OSD

• DVR~Camera Communication System (DCCS)

- For PTZ and zoom lens controllable cameras, both video signal and control signal are transmitted down one coaxial cable, removing the need for an additional RS485 control cable
- Camera installation is significantly simplified, reducing labour costs and working hours

• Remote Independent Operation

Allowing remote users to view/monitor live/playback images independently and privately from the local site view

• H.264 Video Compression Technology

- Significantly improved image quality for live, recorded and network video broadcast
- Recording file size is minimized for maximum recording times and reduced hard disk space use
- Lower bit rate for faster image transfer over network

Multiplex

Allows live display, record, playback, backup and network operation at the same time

Backup Function

- Supports DVD writer, USB flash drive and network backup

• Audio / Video Support

- 4 audio In, 2 Audio out
- Built-in VGA interface



| Model: | AVD746D |
|--|--|
| Video System | NTSC, PAL (auto detection) |
| Video Compression Format | H.264 |
| Video Input | 8 Channels (Composite video signal 1 Vp-p 750 BNC) |
| Video Loop Input | 8 Channels (Composite video signal 1 Vp-p 750 BNC) |
| Video Output (BNC) | Main Monitor: For stable display, Call Monitor: For sequence displa |
| Video Output (VGA) | Built-in VGA output for LCD monitor |
| Audio Input / Output | 4 audio inputs, 2 audio output (Mono) |
| Multiplex Operating simultaneously | Supports live display, recording, playback, backup, and network |
| Maximum Recording Rate | eq:Frame: 704 x 480 pixels with 60IPS <ntsc>, 704 x 576 pixels with 50IPS <pal>, Field: 704x240 pixels with 120IPS <ntsc>, 704 x 288 pixels with 100IPS <pal>, CIF: 352 x 240 pixels with 240IPS <ntsc>, 352 x 288 pixels with 200IPS <pal></pal></ntsc></pal></ntsc></pal></ntsc> |
| DCCS Support | Yes (All channels) |
| IVS Support | Yes (4 channels) |
| Recording Mode | Manual, Timer, Motion, Alarm, Remote |
| Recording Quality Options | Best, High, Normal and Basic |
| Pre-alarm Recording | Yes (8MB) |
| HDD Type | SATA |
| HDD Storage | With DVD Writer Model: Accommodates 2 SATA HDDs (1HDD capacity up to 2TB) |
| Quick Search | Time, Motion, Alarm search mode |
| Backup Device | DVD writer (optional), USB flash drive, network |
| Compression Format | H.264 |
| Network Live Audio | Yes |
| Ethernet | 10, 100 Base-T |
| Network Protocol | TCP/IP, PPPOE, DHCP and DDNS (Dynamic IP) |
| Network Surveillance Interface | Licensed software "Video Viewer", Internet Explorer, Mozilla Firefox or Google Chrome web browser, QuickTime player Network Surveillance Interface (10 users access simultaneously) |
| Remote Independent Operation | Yes |
| Event Notification | By FTP, e-mail |
| R.E.T.R. (Remote Event Trigger Recording) | Yes |
| IR Remote Control | Yes |
| Mobile Surveillance | Yes |
| Motion Detection Area | 16 × 12 grids per channel |
| Motion Detection Sensitivity | 4 adjustable parameters for accurate detection |
| PTZ Control | Yes |
| External Alarm | 8 inputs, 1 output |
| Picture Zoom | 2 x digital zoom |
| User Level | Administrator & Operator |
| Video Loss Detection | Yes |
| Camera Title | Supports up to 6 letters |
| Video Adjustable | Hue, Color, Contrast, Brightness |
| Power Source (±10%) | 19v DC |
| Power Consumption (±10%) | <64W |
| Operating Temperature | 10 ~ 40°C (50 ~ 104°F) |
| System Recovery | System auto recovery after power failure |
| Dimensions | 432(W) × 90(H) × 326(D) mm |

/Rs

AVTECH



AVD748D:

16 Channel H.264 IVS, 1TB HDD DVR

AV Tech's 'IVS' (Intelligent Video Surveillance) Series are the world's first DVRs to fully integrate PC, mobile phone/PDA and CCTV technology.

These intelligent DVRs realise active call-out notifications to smart phones for instant remote surveillance, supporting all popular smart phone platforms such as iPhone, BlackBerry, Nokia Symbian, Android and Windows Mobile.

An incredibly high specification DVR at a surprisingly low cost!

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Features:

• Remote Surveillance

- Mobile surveillance via our self-developed, free software application
 'Eagle Eyes' is supported on all popular mobile platforms such as iPhone,
 BlackBerry, Nokia Symbian, Android and Windows Mobile.
- Network/remote surveillance via the licensed software 'Video Viewer', Internet Explorer, Mozilla Firefox or Google Chrome web browsers; QuickTime player supported for up to 10 user logins simultaneously.

• iPhone Push Notification

Supports pending Push Notification to iPhones for instant event notification of human detection

• Intelligent Surveillance

- Virtual Fence; an intruder virtual detection line can be set to detect intruders crossing a specified line
- Flow Counting; a virtual detection line can be set to detect the direction of pedestrians for flow counting
- Individual Channel Motion Recording; only channels detecting activity will record, effectively saving significant amounts of hard disk space and ensuring maximum recording time.
- Supports pre-alarm recording

USB Mouse Control with GUI OSD

• DVR~Camera Communication System (DCCS)

- For PTZ and zoom lens controllable cameras, both video signal and control signal are transmitted down one coaxial cable, removing the need for an additional RS485 control cable
- Camera installation is significantly simplified, reducing labour costs and working hours

• Remote Independent Operation

 Allowing remote users to view/monitor live/playback images independently and privately from the local site view

H.264 Video Compression Technology

- Significantly improved image quality for live, recorded and network video broadcast
- Recording file size is minimized for maximum recording times and reduced hard disk space use
- Lower bit rate for faster image transfer over network

Multiplex

 Allows live display, record, playback, backup and network operation at the same time

Backup Function

- Supports DVD writer, USB flash drive and network backup

Audio / Video Support

- 4 audio In, 2 Audio out
- Built-in VGA interface

| Model: | AVD748D |
|--|---|
| Video System | NTSC, PAL (auto detection) |
| Video Compression Format | H.264 |
| Video Input | 16 Channels (Composite video signal 1 Vp-p 750 BNC) |
| Video Loop Input | 16 Channels (Composite video signal 1 Vp-p 750 BNC) |
| Video Output (BNC) | Main Monitor: For stable display, Call Monitor: For sequence display |
| Video Output (VGA) | Built-in VGA output for LCD monitor |
| Audio Input / Output | 4 audio inputs, 2 audio output (Mono) |
| Multiplex Operating | Supports live display, recording, playback, backup, and network simultaneously |
| Maximum Recording Rate | eq:frame:ro4 x 480 pixels with 120IPS <ntsc>, 704 x 576 pixels with 100IPS <pal>, Field: 704 x 240 pixels with 240IPS <ntsc>, 704 x 288 pixels with 200IPS <pal>, CIF: 352 x 240 pixels with 480IPS <ntsc>, 352 x 288 pixels with 400IPS <pal></pal></ntsc></pal></ntsc></pal></ntsc> |
| DCCS Support | Yes (All channels) |
| IVS Support | Yes (4 channels) |
| Recording Mode | Manual, Timer, Motion, Alarm, Remote |
| Recording Quality Options | Best, High, Normal and Basic |
| Pre-alarm Recording | Yes (8MB) |
| HDD Type | SATA |
| HDD Storage | With DVD Writer Model: Accommodates 1 SATA HDD (1 HDD capacity up to 2TB) |
| Quick Search | Time, Motion, Alarm search mode |
| Backup Device | DVD writer (optional), USB flash drive, network |
| Compression Format | H.264 |
| Network Live Audio | Yes |
| Ethernet | 10, 100 Base-T |
| Network Protocol | TCP/IP, PPPOE, DHCP and DDNS (Dynamic IP) |
| Network Surveillance Interface | Licensed software "Video Viewer", Internet Explorer, Mozilla Firefox or Google Chrome web browser, QuickTime player Network Surveillance Interface (10 users access simultaneously) |
| Remote Independent Operation | Yes |
| Event Notification | By FTP / E-Mail |
| R.E.T.R. (Remote Event Trigger Recording) | Yes |
| IR Remote Control | Yes |
| Mobile Surveillance | Yes |
| Motion Detection Area | 16 × 12 grids per channel |
| Motion Detection Sensitivity | 4 adjustable parameters for accurate detection |
| PTZ Control | Yes |
| External Alarm | 16 inputs, 1 output |
| Picture Zoom | 2 x digital zoom |
| User Level | Administrator & Operator |
| Video Loss Detection | Yes |
| Camera Title | Supports up to 6 letters |
| Video Adjustable | Hue / Color / Contrast / Brightness |
| Power Source (±10%) | 19v DC |
| Power Consumption (±10%) | <64W |
| Operating Temperature | 10 ~ 40°C (50 ~ 104°F) |
| System Recovery | System auto recovery after power failure |
| Dimensions | 432(W) × 90(H) × 326(D) mm |





ECOR 264x1-4: 4-channel Pentaplex H.264 DVR

The new compact Everfocus ECOR264 DVR series offers H.264 compression for efficient disk storage and network bandwidth

Ideal for small to medium instalation applications the ECOR range include high specification features normally found on more expensive recorders including mobile viewing allowing you to check your home and business while on the go.

All ECOR DVRs are equipped with a simple graphical user interface for quick and easy configuration.

Features:

- User-friendly graphic user interface (GUI) with easy mouse or front panel operation
- Multi-language menu operation
- Express setup for quick installation in standard applications
- Audio recording capability*
- Latest H.264 compression technology
- Real time recording and playback rate for all cameras
- Individual recording settings for each channel
- Pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- Snapshot search function
- Data archiving via USB 2.0 port or built in DVD-RW drive*
- Programmable motion detection area (22 x 18) for each channel
- Local (through USB mouse) and network PTZ control
- Fast network video transmission with dual stream for mobile phone streaming (3GPP)
- Network operation independent from local operation
- · Event notification incl. e-mail alarm and network alarm with optional PowerCon 4.x software
- Watchdog function with notification options
- Optional RS-485 remote control (EKB 500)
- Free EverFocus DDNS service: DDNS account registration directly from DVR setup
 - * feature, function depending on DVR model





| Model: | ECOR 264 x 1-4 | |
|-------------------------------|--|--|
| Video format | PAL, CCIR | |
| Display format main monitor | 1, 4 x multiscreen, PiP | |
| Display format call monitor | 1, 4 x multiscreen, sequence | |
| Video input | 4 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ω termination | |
| Video output | 4 loop-through outputs, 1 Vp-p at 75 Ω , 1 main monitor output, 1 Vp-p at 75 Ω , 1 main monitor output VGA 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75 Ω , BNC | |
| Video compression | H.264 | |
| Display resolution VGA output | 800 x 600 | |
| Harddisk storage | up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk* | |
| Recording resolution | 704 x 576, 704 x 288, 352 x 288 | |
| Recording rate | 1 ~ 100 IPS for all resolutions | |
| | $1\sim25$ IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) | |
| Recording modes | continuous, schedule or event recording | |
| Playback search | via date/time or event, smart search incl. snapshot search function | |
| Video pause | Yes | |
| Video loss detection | Yes | |
| Motion detection | yes, with configurable detection area (22 x 18) and sensitivity | |
| Event log | Yes | |
| Alarm | 4 alarm inputs, 4 alarm outputs | |
| Audio | 4 line inputs, 1 line output* | |
| Setup | On-screen display with graphic user interface (GUI) | |
| Control | USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 | |
| Timer | Built-in real time clock | |
| Title | 16-characters title generator for each camera | |
| Archive | USB 2.0 interface, internal DVD-RW drive* | |
| Ethernet | RJ45 network connector | |
| Interfaces | 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector | |
| Password protection | 3 levels with individual user rights assignment | |
| Watchdog function | For cooler fan, HDD status, HDD temperature, recording and HDD fault | |
| Power source | 12v DC, via external power supply 100 ~ 240v AC | |
| Power consumption | 40W max | |
| Ambient temperature | 0 ~ +40°C | |
| Dimensions | 355(W) x 71(H) x 353(D) mm | |
| Weight | 4kg (w/o HDD) | |

Rs









• ECOR 264x1-9: 9-channel Pentaplex H.264 DVR

The new compact Everfocus ECOR264 DVR series offers H.264 compression for efficient disk storage and network bandwidth conversion

Ideal for small to medium instalation applications the ECOR range include high specification features normally found on more expensive recorders including mobile viewing allowing you to check your home and business while on the go.

All ECOR DVRs are equipped with a simple graphical user interface for quick and easy configuration.

Features:

- User-friendly graphic user interface (GUI) with easy mouse or front panel operation
- Multi-language menu operation
- Express setup for quick installation in standard applications
- Audio recording capability*
- Latest H.264 compression technology
- Real time recording and playback rate for all cameras
- Individual recording settings for each channel
- Pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- Snapshot search function
- Data archiving via USB 2.0 port or built in DVD-RW drive*
- Programmable motion detection area (22 x 18) for each channel
- Local (through USB mouse) and network PTZ control
- Fast network video transmission with dual stream for mobile phone streaming (3GPP)
- Network operation independent from local operation
- Event notification incl. e-mail alarm and network alarm with optional PowerCon 4.x software
- Watchdog function with notification options
- Optional RS-485 remote control (EKB 500)
- Free EverFocus DDNS service: DDNS account registration directly from DVR setup
 - * feature, function depending on DVR model





| Video format PAL, CCIR Display format main monitor 1, 4, 6, 8, 9 x multiscreen, PIP Video input 9 inputs 1 Vp-p composite PAL, BNC, autom. 75Ω termination Video input 9 logo-through outputs, 1 Vp-p at 75Ω, 1 main monitor output, 1 Vp-p at 75Ω, 1 main monitor output, VGA 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75Ω, BNC Video compression H.264 Display resolution VGA output 800 x 600 Harddisk storage up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisks or 3cm of 3 | Model: | ECOR 264 x 1-4 |
|---|-------------------------------|---|
| Display format call monitor Video input Video input Video input Video output Silve promosite PAL, BNC, autom. 75Ω termination Video output Silve ou | Video format | PAL, CCIR |
| Video input 9 inputs 1 Vp-p composite PAL, BNC, autom. 75Ω termination Video output 9 loop-through outputs, 1 Vp-p at 75Ω, 1 main monitor output, 1 Vp-p at 75Ω, 1 main monitor output, VGA 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75Ω, 8NC Video compression H.264 Display resolution VGA output 800 x 600 Harddisk storage up to 2 x internal 8.9 cm (3.5") SATA harddisks OR up to 1x removable 8.9 cm (3.5") SATA harddisks* Recording resolution 704 x 576, 704 x 288, 352 x 288 Recording rate 1 ~ 225 PS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) 1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video bass detection Yes Wideo loss detection Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Title 16-characters title | Display format main monitor | 1, 4, 6, 8, 9 x multiscreen, PiP |
| Video output 9 loop-through outputs, 1 Vp-p at 75Ω, 1 main monitor output, 1 Vp-p at 75Ω, 1 main monitor output VGA 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75Ω, 8NC Video compression H.264 Display resolution VGA output 800 x 600 Harddisk storage up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk* Recording resolution 70.4 x 576, 70.4 x 288, 352 x 288 Recording rate 1 ~ 225 IPS G352 x 288) 1 ~ 200 IPS (70.4 x 288) 1 ~ 100 IPS (70.4 x 57.6) 1 ~ 25 IPS Individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes continuous, schedule or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Wideo loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Title 16-characters title generator fo | Display format call monitor | 1, 4, 9 x multiscreen, sequence |
| 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75Ω, BNC | Video input | 9 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ω termination |
| Display resolution VGA output Harddisk storage up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk* Recording resolution 704 x 576, 704 x 288, 352 x 288 Recording rate 1 ~ 225 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) 1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes Continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethemet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Video output | 9 loop-through outputs, 1 Vp-p at 75Ω , 1 main monitor output, 1 Vp-p at 75Ω , 1 main monitor output VGA 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75Ω , BNC |
| Harddisk storage up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk* Recording resolution 704 x 576, 704 x 288, 352 x 288 Recording rate 1 ~ 225 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) 1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethemet R.445 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Video compression | H.264 |
| Recording resolution 704 x 576, 704 x 288, 352 x 288 Recording rate 1 ~ 225 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) 1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 4 mbient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Display resolution VGA output | 800 x 600 |
| Recording rate 1 ~ 225 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) 1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 4 mbient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Harddisk storage | up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk* |
| 1 ~ 25 IPS individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) Recording modes continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet R.45 network connector 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Recording resolution | 704 x 576, 704 x 288, 352 x 288 |
| distributed among remaining channels) Recording modes continuous, schedule or event recording Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Recording rate | 1 ~ 225 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) |
| Playback search via date/time or event, smart search incl. snapshot search function Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | | |
| Video pause Yes Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Recording modes | continuous, schedule or event recording |
| Video loss detection Yes Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Playback search | via date/time or event, smart search incl. snapshot search function |
| Motion detection yes, with configurable detection area (22 x 18) and sensitivity Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Video pause | Yes |
| Event log Yes Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Video loss detection | Yes |
| Alarm 9 alarm inputs, 4 alarm outputs Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Motion detection | yes, with configurable detection area (22 x 18) and sensitivity |
| Audio 4 line inputs, 1 line output* Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Bullt-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Event log | Yes |
| Setup On-screen display with graphic user interface (GUI) Control USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Alarm | 9 alarm inputs, 4 alarm outputs |
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| Timer Built-in real time clock Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Setup | On-screen display with graphic user interface (GUI) |
| Title 16-characters title generator for each camera Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Control | USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 |
| Archive USB 2.0 interface, internal DVD-RW drive* Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Timer | Built-in real time clock |
| Ethernet RJ45 network connector Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Title | 16-characters title generator for each camera |
| Interfaces 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Archive | USB 2.0 interface, internal DVD-RW drive* |
| Password protection 3 levels with individual user rights assignment Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Ethernet | RJ45 network connector |
| Watchdog function For cooler fan, HDD status, HDD temperature, recording and HDD fault Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Interfaces | 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector |
| Power source 12v DC, via external power supply 100 ~ 240v AC Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Password protection | 3 levels with individual user rights assignment |
| Power consumption 40W max Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Watchdog function | For cooler fan, HDD status, HDD temperature, recording and HDD fault |
| Ambient temperature 0 ~ +40°C Dimensions 355(W) x 71(H) x 353(D) mm | Power source | 12v DC, via external power supply 100 ~ 240v AC |
| Dimensions 355(W) x 71(H) x 353(D) mm | Power consumption | 40W max |
| | Ambient temperature | 0 ~ +40°C |
| Weight 4kg (w/o HDD) | Dimensions | 355(W) x 71(H) x 353(D) mm |
| | Weight | 4kg (w/o HDD) |











The new compact Everfocus ECOR264 DVR series offers H.264 compression for efficient disk storage and network bandwidth

Ideal for small to medium instalation applications the ECOR range include high specification features normally found on more expensive recorders including mobile viewing allowing you to check your home and business while on the go.

All ECOR DVRs are equipped with a simple graphical user interface for quick and easy configuration.

Features:

EverFocus

- User-friendly graphic user interface (GUI) with easy mouse or front panel operation
- Multi-language menu operation
- Express setup for quick installation in standard applications
- Audio recording capability*
- Latest H.264 compression technology
- Real time recording and playback rate for all cameras
- Individual recording settings for each channel
- Pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- Snapshot search function
- Data archiving via USB 2.0 port or built in DVD-RW drive*
- Programmable motion detection area (22 x 18) for each channel
- Local (through USB mouse) and network
- Fast network video transmission with dual stream for mobile phone streaming (3GPP)
- Network operation independent from local operation
- · Event notification incl. e-mail alarm and network alarm with optional PowerCon 4.x software
- Watchdog function with notification options
- Optional RS-485 remote control (EKB 500)
- Free EverFocus DDNS service: DDNS account registration directly from DVR setup
 - * feature, function depending on DVR model





| Model: | ECOR 264 x 1-4 |
|-------------------------------|---|
| Video format | PAL, CCIR |
| Display format main monitor | 1, 4, 6, 8, 9, 10, 13, 16 x multiscreen, PiP |
| Display format call monitor | 1, 4, 9, 16 x multiscreen, sequence |
| Video input | 16 inputs 1 Vp-p composite PAL BNC, autom. 75 Ω termination |
| Video output | 16 loop-through outputs, 1 Vp-p at 75 Ω , 1 main monitor output, 1 Vp-p at 75 Ω , 1 main monitor output VGA 800 x 600, 15-pin Sub-D, 1 multiplex call monitor output, 1 Vp-p at 75 Ω , BNC |
| Video compression | H.264 |
| Display resolution VGA output | 800 x 600 |
| Harddisk storage | up to 2 x internal 8,9 cm (3,5") SATA harddisks OR up to 1x removable 8,9 cm (3,5") SATA harddisk* |
| Recording resolution | 704 x 576, 704 x 288, 352 x 288 |
| Recording rate | 1 ~ 400 IPS (352 x 288) 1 ~ 200 IPS (704 x 288) 1 ~ 100 IPS (704 x 576) |
| | $1\sim25\text{IPS}$ individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) |
| Recording modes | continuous, schedule or event recording |
| Playback search | via date/time or event, smart search incl. snapshot search function |
| Video pause | Yes |
| Video loss detection | Yes |
| Motion detection | yes, with configurable detection area (22 x 18) and sensitivity |
| Event log | Yes |
| Alarm | 16 alarm inputs, 4 alarm outputs |
| Audio | 4 inputs, 1 line output |
| Setup | On-screen display with graphic user interface (GUI) |
| Control | USB mouse control, front panel control, IR remote control, optional: network, RS-485 keyboard EKB 500 |
| Timer | Built-in real time clock |
| Title | 16-characters title generator for each camera |
| Archive | USB 2.0 interface, internal DVD-RW drive* |
| Ethernet | RJ45 network connector |
| Interfaces | 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector |
| Password protection | 3 levels with individual user rights assignment |
| Watchdog function | For cooler fan, HDD status, HDD temperature, recording and HDD fault |
| Power source | 12v DC, via external power supply 100 ~ 240v AC |
| Power consumption | 40W max |
| Ambient temperature | 0 ~ +40°C |
| Dimensions | 355(W) x 71(H) x 353(D) mm |
| Weight | 4kg (w/o HDD) |

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Paragon 264x4-16: 16-channel D1 Real-Time H.264 Digital Video Recorder

The latest EverFocus Paragon H.264 full size digital video recorder is based on H.264 compression technology resulting in enhanced recording capacity and improved network image transmission speed. The main monitor output offers a true 1080i HDMI digital output to deliver stunning images from any resolution which enhances motion reproduction.

Comprehensive features and extended record settings allow universal application of this DVR series. Easy express configuration using a graphical user interface for setup, archive, search and playback. Available as a 16 channel unit with DVD burner and optimal internal or hot swap HDDs.

Features:

- D1 real-time recording and playback for all cameras
- HDMI video output with full HD resolution (1080p)
- Latest H.264 compression technology
- User-friendly graphic user interface (GUI) with easy mouse or front panel operation
- Multi-language menu operation
- Express setup for quick installation in standard applications
- Audio recording for all 16 channels
- Separately configured HDMI 1080p and VGA/BNC main monitor outputs and additional call monitor
- Individual recording settings for each channel incl. holiday calendar, express schedule and pre-alarm
- Pentaplex operation for simultaneous recording, playback, archiving, live view and network access
- Snapshot search function
- Data archiving via USB 2.0 port, network or built in DVD-RW drive*
- Programmable motion detection area (22 x 16) for each channel
- Local (through USB mouse) and network PTZ control
- Fast network video transmission with dual stream for mobile phone streaming (3GPP)





| Model: | Paragon 264 x 4–16 |
|---|--|
| Video format | PAL, CCIR |
| Display format main monitor | VGA / BNC: 1, 4, 9, 10, 13, 16 x multiscreen, PiP // HDMI: 1, 4, 6, 8, 9, 12, 16 x multiscreen |
| Display format call monitor | full screen, 4 x multiscreen, sequence (live) |
| Display format HD monitor | 1920 x 1080 (full HD 1080p) |
| Display format VGA monitor | 1024 x 768 |
| Main/call monitor assignment monitor HDMI | Option 1: main monitor VGA and BNC (simultaneous view) and call Option 2: main monitor HDMI and call monitor VGA and BNC (simultaneous view) |
| Video input | 16 inputs 1 Vp-p composite PAL, BNC, autom. 75 Ω termination |
| Video output | 16 loop-through outputs, 1 Vp-p at 75Ω , BNC 1 main monitor output, 1 Vp-p at 75Ω , BNC 1 main monitor output VGA 1024x768, 15-pin Sub-D 1 call monitor output, 1 Vp-p at 75Ω , BNC 1 HDMI output 1920 x 1080 (1080p) |
| Video compression | H.264 |
| Harddisk storage | Up to 4 x internal 8.9cm (3.5") SATA harddisks OR up to 2 x removable 8.9cm (3.5") SATA harddisks* |
| Recording resolution | 704 x 576, 704 x 288, 352 x 288 |
| Recording rate | $1\sim400$ IPS for all resolutions individual setup per channel for normal and event recording (remaining rate to be distributed among remaining channels) |
| Recording modes | Continuous, schedule (with holiday calendar) or event recording |
| Playback search | Via date/time or event, smart search incl. snapshot search function |
| Video pause | Yes |
| Video loss detection | Yes |
| Motion detection | Yes, with configurable detection area (22x16) and sensitivity |
| Event log | Yes |
| Pre-alarm | Yes |
| Alarm | 16 alarm inputs, 4 relay outputs |
| Audio | 16 line inputs, 1 line output |
| Setup | On-screen display |
| Control | USB mouse control, front panel control with jog/shuttle, IR remote control, network; optional: RS-485 keyboard EKB 500 |
| Timer | Built-in real time clock with automatic time synchronisation via globa NTP server through Internet |
| Title | 12-characters title generator for each camera |
| Archive | USB 2.0 interface, internal DVD-RW drive* |
| Ethernet | RJ45 network connector |
| Interfaces | 1 x RS-232 (9-pin Sub-D), 1 x RS-485 screw terminal connector |
| Password protection | 3 levels |
| Watchdog function | for cooler fan, HDD status, HDD temperature, recording and HDD fau |
| Power source | 100 ~ 240v AC |
| Power consumption | 60W max |
| Ambient temperature | 0 ~ +40°C |
| Dimensions | 430(W) x 95(H) x 410(D) mm |



• AVP101: Multi-Function Keyboard Controller

Full-function keyboard controller for use with the AVTech range of DVRs, PTZs and Speed Domes.

Features:

- Controls up to 64 devices through one keyboard controller (Devices such as the PTZs, Speed Domes and DVRs)
- User-friendly button placement & LCD touch panel (128 x 64 pixels) for easy operation
- Network upgrade available for future scalability
- Supports multi-protocols
- Password protection to prevent unauthorized intruder
- Built-in microphone for broadcast function



| Model: | AVP101 |
|-----------------------|----------------------------|
| Device Control | PTZ camera & DVRetc. |
| Remote Control | RS-485 |
| Multi-Protocols: | Yes |
| Baud Rate | 2400 ~ 115200 |
| LCD Display | 128*64 |
| Ethernet Port | 10, 100 Base-T |
| External I/O Port | 9 Pin, D-Sub |
| Input Voltage | 12v DC |
| Power Consumption | <2W |
| Operating Temperature | 0° ~ +40°C |
| Operating Humidity | <95% |
| Dimensions | 380(W) x 180(H) x 95(D) mm |





EKB-500: Multi-function Keyboard Controller

Full-function keyboard controller for use with the complete EverFocus product range and other leading brand Pelco D/Pelco P compatible PTZs and Speed Domes.

Features:

- Use of EEPbus for simultaneous control of DVRs and speed domes on one single RS-485 bus
- Capable of controlling speed dome cameras and DVRs
- 3D joystick control of PTZ function
- Jog/shuttle DVR control
- Matrix control (EverFocus DVR series' products)
- LCD display (20 x 2 lines), illuminated
- Multi-protocol support (EverFocus, Pelco-P/D, Samsung (El), EQ 2700 S, Panasonic)
- Password protection
- Ergonomic buttons placement with sound indication for easy usage
- OSD access to connected devices
- Two independent RS-485 communication ports with selectable baud rate
- Camera / monitor mapping for easy reorganization
- Housing allows countersunk installation



| Model: | EKB-500 |
|----------------------|--|
| Keys | 48 |
| Joystick | 3D PTZ function control |
| Jog/shuttle | DVR control |
| Display | LCD 2 lines with 20 characters each |
| Baud rate | 1.200 ~ 38.400 |
| Serial interfaces | RS-232 (service) / 2 x RS-485 |
| Protocols | Pelco-P / Pelco-D / EverFocus / Samsung (El.) / EQ 2700 S / Panasonic |
| Devices | Control of speed dome and DVR |
| Cascading | Up to 8 keyboards addressable |
| Wiring box | Yes |
| Supported DVR models | Paragon 16, Paragon 264x4 ECOR 8, 4, ECOR 264 x 1-16, -9, -4 EDR 1640 / 1610 / 920 / 910 EDR 810 H / 810 M / 410 H / 410 M EDSR 1600 / 900 / 600 / 400 H / 400 M / 100 H / 100 M |
| Power source | 12v DC, via included power supply 230v AC |
| Power consumption | 10W max |
| Ambient temperature | 0° ~ +40°C |
| Dimensions | 360(W) x 110(H) x 200(D) mm |
| Weight | 1.5kg |

 AVK-T1: DCCS Keyboard (Individual Camera) Control Box

Features:

- Current non-DCCS surveillance system upgrade to control and configure DCCS devices
- Simple keypad design for intuitive menu operation
- Alarm output & RS485 control support
- OSD available for easy operation
- Compact unit



| Model: | AVK-T1 |
|--------------------|--------------------------------|
| Power | 7.5v ~ 12v DC |
| Video Input | DCCS Camera |
| Video Output | 1.0 Vp-p Composite, 75Ω |
| Alarm Output | 1 Alarm Output |
| Remote Control I/O | RS-485 |
| OSD | Yes |
| Dimensions | 380(W) x 180(H) x 95(D) mm |



'Eagle Eyes' Remote Surveillance Application

Making full use AV Tech's integrated IVS Range funtionality, 'Eagle Eyes' software provides fast, powerful control and monitoring of your CCTV/ surveillance system in the palm of your hand, directly from your smart

5-Sec Active Push Notification

When an event happens and is detected by our human detection camera, this DCCS DVR will immediately send a push notification to your iPhone which will then activate our mobile surveillance software, EagleEyes, automatically for remote access within 5 seconds.



Event Search and Playback

Remote event search and playback are available from your Smartphone, allowing you to check all important events at any time, from anywhere.



Flow Counting

In "Address Book": select the item which you want to activate the flow counting function and touch the second button from the bottom right side to enter the month mode.

In the month mode: Place the Smartphone horizontally to display the bar chart. To enter the day mode, touch one of the dates; to enter the time mode, touch one of the time ranges.



Touch Control & Icon Use

Touch Control & Icon Use: Intuitive touch control with easy icon use to manage and control all power functions on IVS products remotely via EagleEyes





Specifications:

| EagleEyes | Lite | Plus |
|---|------|------|
| Comparison of Features/Versions | | |
| Address Book | 1 | 10 |
| Download playback | N | Υ |
| Auto playback after an event alarm is triggered | Υ | Υ |
| Time Search | N | Υ |
| People Counting | Υ | Υ |
| Smart Zoom Control | Υ | Υ |
| IR On/Off Control | Υ | Υ |
| PTZ Auto Tracking Control | Υ | Υ |
| PTZ Preset Point Setting | Υ | Υ |
| Real Time Video Streaming | Υ | Υ |
| Real Time Audio Streaming | Υ | Υ |
| Video Quality Control | Υ | Υ |
| Auto Re-login | Υ | Υ |
| Push Notification | Υ | Υ |
| PTZ Hot Point Control | Υ | Υ |
| Touch to zoom in/out in PTZ mode | Υ | Υ |
| Double-Click to zoom max in PTZ mode | Y | Υ |



AVTECH 'Eagle Eyes' Remote Surveillance Application; avaliable free at **i**Tunes and **Android** Market.



| Touch Screen Display | 428 |
|------------------------------|-----------|
| Surveillance Display Screens | 429 ~ 430 |
| HD Display Screens | 431 ~ 432 |
| Multi-Screen Video Walls | 433 |
| LOD Martin Control Kill | 404 |

Mneovo







TS-17R: 17" Touch Screen Display

A stylish 17" touch screen display with superb touch panel sensitivity and long-term durability built to last in demanding point-of-sale

The TS-17R provides durable touch screen functionality and features highly accurate 5-wire resistive touch technology. The TS-17R's slim design demands less space than competing touch screen displays, and the VESA compliant design makes for easy mounting in a variety of environments.

The TS-17R is expressly designed for use in point-of-sale systems, information kiosks, museum displays and other high-traffic public environments.

Features:

- 17" scratch resistant touch panel
- 5-wire resistive touch technology
- SXGA 1280 x 1024 resolution
- Slim bezel design
- Sharp 800:1 contrast ratio
- High 300 cd/m² brightness
- Lifetime 35 million finger-touch hits
- 100,000 characters input stability
- Dual serial touch interface
- · Auto-adjustment for optimal settings
- User-friendly OSD with lockable key function
- Kensington® security socket
- VESA compliant for wall/arm mounting



VESA compliant design provides for an unlimited array of mounting options



Scratch resistant touch panel with 5-wire Resistive touch technology



TS-17R provides dual serial touch interface for RS-232 and USB



| TFT LCD 17.0" (432mm) SXGA 1280 x 1024 0.264mm 300 cd/m² (Typical) 800:1 (Typical) Hard Coating (3H), Anti-glare Treatment 160°(H) x 160°(v) (Typical) 4 ms (GTG) 50,000 hrs (Minimum) |
|--|
| H: 30 ~ 80kHz V: 56 ~ 75Hz |
| 140MHz |
| 8-Pin, Mini Dim 15-Pin, D-Sub 24-Pin, DVI-D |
| External 100 - 240v AC, 50 - 60 Hz <42W (On) <2W (Stand-by) <1W (Off) |
| 5-wire Resistive >80% <1% Deviation Error 1024 x 1024 <300g Dual RS-232/USB interface 2.1 mm 35 million hits (finger) |
| DCC 2B ; DCC/Cl |
| 0° ~ 40°C 10% ~ 90% |
| Yes (100 mm) |
| $5^{\circ} \sim 25^{\circ}$ (+5° when bracket hooked) |
| 436(W) x 427(H) x 200(D) mm |
| |





• SC-17: 17" Surveillance Display Screen

A cost-effective 17" surveillance display with the quality, connectivity and performance essential for any security environment.

With the AG Neovo SC-17, security centres can keep an eye on budgets without losing sight of performance.

Digital and analogue video inputs, including looping BNC VO, minimise installation cost. Auto NTSC/PAL detection, settings key lock and auto settings adjustment reduce maintenance hassle. Quick signal-switching and rapid response time improve surveillance efficiency, while built-in speakers provide an additional level of security.

All this and more make the SC-17 the perfect value display choice for any security environment.

Features:

- High 1280 × 1024 SXGA resolution
- Anti-Burn-in[™] technology
- Video inputs (BNC in x 1, BNC out x 1)
- Looping video inputs for multiple connections
- Quick signal-switching time (≤ 0.8 sec)
- NTSC/PAL auto-detection
- Selectable signal source
- PC compatible
- Built-in speakers
- Key lock function
- Auto-adjustment for optimal setting
- Security socket
- VESA standard wall mount



Built-in speakers enable more rigorous security monitoring



Looping video inputs allow multiple display connections



Video versatility, including VGA, DVI, S-Video and BNC In/Out



| specifications: | |
|--|---|
| Model: | SC-17 |
| Panel - Panel Type Panel Size Max. Resolution Pixel Pitch Brightness Contrast Ratio Viewing Angle Display Colour Response Time | TFT LCD 17.0" (433mm) SXGA 1280 x 1024 0.264mm 250 cd/m2 (Typical) 1000:1 (Typical) 170°(H) x 160°(v) (Typical) 16.7M 3ms (GTG) |
| Frequency (H/V) | H: 31 ~ 80kHz V: 50 ~ 75Hz |
| Max. Pixel Clock | 140MHz |
| Input - Analogue Digital CVBS S-Video | 15-Pin, D-Sub 24-Pin, DVI-D BNC x 1 4-Pin mini DIN |
| Out - CVBS | BNC x 1 (Loop through) |
| Audio - Audio In Audio Out Speaker | 3.5mm Audio Line-in 3.5 mm Audio Line-in 1W x 2 |
| Power - AC-DC Adaptor Power Consumption | External 100 ~ 240v AC, 50 ~ 60Hz <26 W(0n) <1.5 W(0ff) |
| Plug & Play - VESA | DCC 2B |
| Operating Conditions - Temperature Humidity | 0° ~ 40°C 10% ~ 85% |
| Mounting - VESA FPMPMI | Yes (100mm) |
| Tilt | -5° ~ +15° |
| Dimensions | 372(W) x 360(H) x 164(D) mm |
| Weight | 3.6kg |

aneovo



• SC-19: 19" Surveillance Display Screen

A value 19" surveillance display with rapid response time, quick signal-switching and robust video support for security and control centre environments.

For a cost-effective surveillance display solution, look no further than the AG Neovo SC-19. A bright, high resolution full colour screen with quick signal-switching and 3ms response time ensures sharp, smooth video playback. Looping BNC video inputs and NTSC/PAL support maximise flexibility for system integration.

And with built-in speakers, stylishly slim profile and VESA mountability, the SC-19 will look just as attractive as its amazingly affordable price.

Features:

- High 1280 × 1024 SXGA resolution
- Anti-Burn-in[™] technology
- Video inputs (BNC in x 1, BNC out x 1)
- Looping video inputs for multiple connections
- Quick signal-switching time (≤ 0.8 sec.)
- NTSC/PAL auto-detection
- Selectable signal source
- PC compatible
- Built-in speakers
- Key lock function
- Auto-adjustment for optimal setting
- · Security socket
- VESA standard wall mount





Built-in speakers enable more rigorous security monitoring



Looping video inputs allow multiple display connections



Video versatility, including VGA, DVI, S-Video and BNC In/Out

| Model: | SC-19 |
|--|---|
| Panel - Panel Type Panel Size Max. Resolution Pixel Pitch Brightness Contrast Ratio Viewing Angle (H/V) Display Colour Response Time | TFT LCD 19.0° (483 mm) SXGA 1280 x 1024 0.294mm 250 cd/m² (Typical) 1000:1 (Typical) 170°/160° (Typical) 18.7M 3 ms (GTG) |
| Frequency (H/V) | H: 31 ~ 80kHz V: 50 ~ 75Hz |
| Max. Pixel Clock | 140MHz |
| Input - Analogue Digital CVBS S-Video | 15-Pin, D-Sub 24-Pin, DVI-D BNC x 1 4-Pin mini DIN |
| Out - CVBS | BNC x 1 (Loop through) |
| Audio - Audio In Audio Out Speaker | 3.5mm Audio Line-in 3.5 mm Audio Line-in 1W x 2 |
| Power - AC-DC Adaptor Power Consumption | External 100 ~ 240v AC, 50 ~ 60Hz < 26 W (0n) < 1.5 W (0ff) |
| Plug & Play - VESA | DCC 2B |
| Operating Conditions - Temperature Humidity | 0°C ~ 40°C 10% ~ 85% |
| Mounting - VESA FPMPMI | Yes (100 mm) |
| Tilt | -5° ~ +15° |
| Dimensions | 420(W) x 406(H) x 190(D) mm |
| Weight | 5.5kg |









RX-W32: 32" Widescreen Full HD Display Screen

A large-format, featured-packed 32" widescreen display protected by NeoV $^{\rm IM}$ Optical Glass and a durable metal frame for serious 24/7 security environments.

Introducing the RX-W32, a large-format hard glass display designed for the serious surveillance centre. A high resolution 32" screen, image-enhancing 3D Comb Filter / 3D Deinterlace technology, and versatile Picture-in-Picture (PIP) options provide sharp images and features security professionals need.

All this, plus protective NeoV™ Optical Glass and sturdy metal casing, makes the RX-W32 the most robust and advanced display choice for maximum surveillance performance.

Features:

- 1920 x 1080 Full HD resolution
- 5000:1 contrast ratio
- NeoV™ Optical Glass
- Anti-Burn-in™ technology
- Horizontal resolution up to 600TVL (NTSC), 620TVL (PAL)
- Smart Omni Viewer: PIP, PBP and VOV functions
- Built-in Image Enhancer: 3D Comb Filter / Deinterlace / Noise Reduction
- Multiple video inputs (BNC in x 2, BNC out x 2)
- RS-232 for individual and multi-display control
- Built-in HDCP allows HD-format video
- Power DC-out design to power connected peripherals
- Selectable aspect ratio for ultimate image: Native, Overscan, Underscan
- NTSC/PAL/SECAM video system support
- Quick signal-switching time (≤0.8 sec)
- IR remote control
- · Durable metal housing
- VESA standard wall mount
- Rigorous screening of the components for mission-critical 24/7 applications





NeoV™ Optical Glass protects against scratches, impacts and other physical damage

Viewing versatility with Picture-in-Picture (PIP), Picture-by-Picture (PBP) and Video-on-Video (VOV)





Anti-Burn-in™ technology prevents image sticking

Multiple video inputs (VGA, DVI, dual BNC, S-Video and Component) allow for effortless system integration



Durable metal casing for enhanced strength and secure mounting

Specifications:

| Model: | RX-W32 |
|--|--|
| Panel - Panel Type Panel Size Max. Resolution Pixel Pitch Brightness Contrast Ratio Viewing Angle (H/V) Display Colour Response Time | TFT LCD 31.6" (801 mm) FHD 1920 x1080 0.36375mm 450 cd/m² (Typical) 5000:1 (Typical) 178°/178° (Typical) 16.7M 6.5ms (GTG) |
| Horizontal resolution - TV Lines | 600TVL (NTSC), 620TVL (PAL) |
| Frequency (H/V) | H: 24 ~ 82kHz, V: 50 ~ 85Hz |
| Input - VGA DVI CVBS S-Video Component(Y PbPr) | 15-Pin, D-Sub 24-Pin, DVI-D BNC x 2 4-Pin mini DIN RCA x 2 |
| Output - CVBS S-Video | BNC x 2 4-Pin mini DIN |
| External Control - RS-232 in/out | 9-Pin, D-Sub |
| Audio - Audio In Audio Out Speaker | 1 x stereo audio in for PC (3.50), 1 x stereo audio in for CVBS (RCA), 1 x stereo audio in for S-Video (RCA), 2 x stereo audio in for YPbPr (RCA) 1 x stereo audio out for CVBS (RCA) 2W x 2 |
| Power - DC Output Power Consumption | 12v, 350mA, DC jack 2.50/ 100 - 240v, 50 - 60Hz <120 W (0n), <10 W (0ff) |
| NeoV TM Optical Glass - Thickness Reflection Rate Transmission Rate Coating Hardness | 3.0mm (0.12") < 1% > 96% > 9H |
| Operating Conditions - Temperature Humidity | 0° ~ 40°C 10% ~ 85% |
| Mounting - VESA FPMPMI | Yes (400 x 200 mm) |
| Dimensions - w/o base w/ base | 788(W) x 478(H) x 101(D) mm 788(W) x 541(H) x 170(D) mm |
| Weight - w/o base w/ base | 16.8kg 18.3kg |



Need help choosing the right product? Call our technical support team now on:

Tel. +44(0)115 977 0075

Aneovo







RX-W42: 42" Widescreen Full HD Display Screen

A full HD, full-featured 42" display protected by NeoVTM Optical Glass and Anti-Burn-inTM technology designed for the best run professional 24/7 security environments.

With a feature list as big as its 42" screen, the RX-W42 brings the ideal combination of size and specs to the professional security environment. Review highly-detailed, smooth and accurate images on a bright Full HD display with AG Neovo's Advanced Image PlatformTM. Save costs and time by taking advantage of multiple video inputs and convenient Picture-in-Picture (PIP) options.

And thanks to protective NeoV $^{\text{IM}}$ Optical Glass, Anti-Burn-in $^{\text{IM}}$ technology, long-life screen and a durable metal frame, these best-run security environments will also be some of the longest running.



- 1920 x 1080 Full HD resolution
- 4000:1 contrast ratio
- NeoV™ Optical Glass
- Anti-Burn-in™ technology
- Smart Omni Viewer: PIP, PBP & VOV functions
- Built-in Image enhancer: 3D Comb Filter/Deinterlace/Noise Reduction
- Multiple video inputs (BNC in x 2, BNC out x 2)
- RS-232 for individual and multi-display control
- Horizontal resolution up to 630TVL (NTSC), 650TVL (PAL)
- Built-in HDCP allows HD-format video
- Power DC-out design to power connected peripherals
- Selectable aspect ratio for ultimate image: Native, Overscan, Underscan
- NTSC/PAL/SECAM video system support
- Quick signal-switching time (≤0.8 sec)
- IR remote control
- · Durable metal housing
- VESA standard wall mount
- Rigorous screening of the components for mission-critical 24/7 applications



 ${\sf NeoV^{TM}}$ Optical Glass protects against scratches, impacts and other physical damage



Viewing versatility with Picture-in-Picture (PIP), Picture-by-Picture (PBP) and Video-on-Video (VOV)



Anti-Burn-in™ technology prevents image sticking



Durable metal casing for enhanced strength and secure mounting



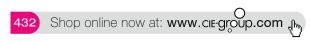
Multiple video inputs (VGA, DVI, dual BNC, S-Video and Component) allow for effortless system integration

Specifications:

w/ base

| ороотошого. | |
|--|--|
| Model: | RX-W42 |
| Panel - Panel Type Panel Size Max. Resolution Pixel Pitch Brightness Contrast Ratio Viewing Angle (H/V) Display Colour Response Time | TFT LCD 42.0" (1067mm) FHD 1920 x 1080 0.48455mm 450 cd/m² (Typical) 4000:1 (Typical) 178°(H), 178°(v) (Typical) 16.7M 6.5ms (GTG) |
| Horizontal resolution - TV Lines | 630TVL (NTSC), 650TVL (PAL) |
| Frequency (H/V) | H: 24 ~ 82kHz, V: 50 ~ 85Hz |
| Input - VGA DVI CVBS S-Video Component(Y PbPr) | 15-Pin, D-Sub 24-Pin, DVI-D BNC x 2 4-Pin mini DIN RCA x 2 |
| Output - CVBS S-Video | BNC x 2 4-Pin mini DIN |
| Audio - Audio In Audio Out Speaker | 1 x stereo audio in for PC (3.50), 1 x stereo audio in for CVBS (RCA), 1 x stereo audio in for S-Video (RCA), 2 x stereo audio in for YPbPr (RCA) 1 x stereo audio out for CVBS (RCA) 2W x 2 |
| Power - DC Output Power Consumption | 12v, 350 mA, DC jack 2.50 100 ~ 240v, 50 ~ 60Hz < (165) W (0n), < (10) W (0ff) |
| NeoV TM Optical Glass - Thickness Reflection Rate Transmission Rate Coating Hardness | 3.0mm (0.12") <1% >96% >9H |
| Operating Conditions - Temperature Humidity | 0°C ~ 40°C 10% ~ 85% |
| Mounting - VESA FPMPMI | Yes (600 x 400 mm, 400 x 200 mm) |
| Dimensions - w/o base w/ base | 1011(W) x 604(H) x 106(D) mm 1011(W) x 667(H) x 190(D) mm |
| Weight - w/o base | 27kg |

28.4kg













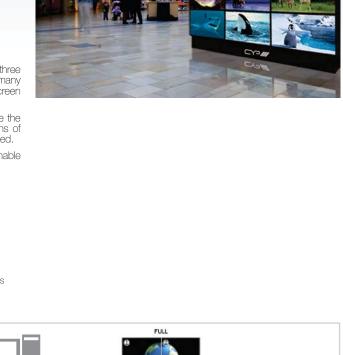
- DS-42A33: 3 x 3 Multi-Screen Video Wall System
- DS-42A44: 4 x 4 Multi-Screen Video Wall System
- DS-42A55: 5 x 5 Multi-Screen Video Wall System
- **DS-MSC:** Multi-Screen Controller

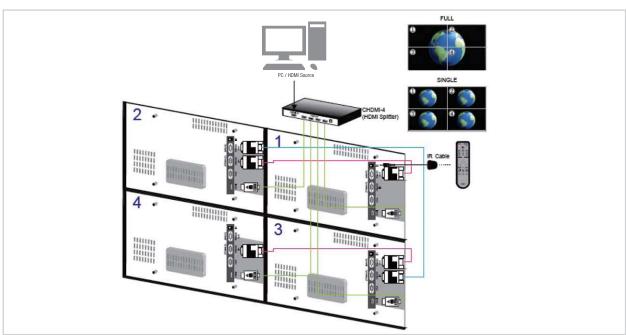
Flexibility is the key to the CYP Digital Signage Solutions. There are three standard packages which provide a complete system solution for many commercial applications. The packages include a Single 42" screen option, 2x2, 3x3, 4x4 and a 5X5 complete digital signage system.

All CYP screen packages include built-in control modules and use the latest LED technology with screens operating at full HD resolutions of 1920 \times 1080P, with bi-directional RS-232 control functionality enabled.

All package solutions are supplied with a full mounting system to enable the installer to secure the system to any wall or display area.

- Supports 4-Screen (2 x 2), 9-Screen (3 x 3), or 16-Screen (4 x 4), or 25-screen (5 x 5) video wall panel combinations
- Supports Full HD 1920 x 1080 resolution LCD panels
- Full two-way RS-232 Control
- Horizontal or Vertical Screen Orientation (both Mounting Kits available)
- Single Image or Independent Split Screen Images
- Independent Controller available for integration with third-party Screens
- ALSO AVAILABLE IN 47" 6mm Bezel option: Contact for details





Specifications:

DS-MSC (Multi-Screen Controller)

For use with third party screens to emulate a video wall This controller will control the digital signage content for each screen on a video wall system using up to 16 screens. One controller is required per screen. If the user has only one HDMI or VGA source, then an appropriate Distribution Amplifier will be required to split the source signal to each of the Muilt-Screen Controllers

DS-42A22

- 2 x 2 Video Wall System 4 x 42" 1080P I CD Screens
- (with HDMI & VGA Connections)
- 4 x Wallmount Kit

1 x 4-way splitter 1 x IR remote and cable

DS-42A33

- 3 x 3 Video Wall System 9 x 42" 1080P I CD Screens
- (with HDMI & VGA Connections) 9 x Wallmount Kit
- 1 x 10-way splitter
- 1 x IR remote and cable

DS-42A44

- 4 x 4 Video Wall System 16 x 42" 1080P LCD Screens (with HDMI & VGA Connections)
- 16 x Wallmount Kit
- 1 x 16-way splitter
- 1 x IR remote and cable

DS-42A55

- 5 x 5 Video Wall System 25 x 42" 1080P LCD Screens (with HDMI & VGA Connections)
- 25 x Wallmount Kit
- 2 x 16-way splitter 1 x IR remote and cable



EverFocus

• EN 220: TFT LCD Monitor with Service Kit

Field Service Kit for viewing camera images (focus, driection, etc) during installation.

High quality LCD screen with charger, battery and PSU supplied in padded zip case.



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|----------------------------|---|
| Model: | EN 220 |
| Screen size | 87 x 116 mm (5,6") |
| Effective display area | 83.52 x 111.36 mm |
| Dot matrix | 320 x 240 |
| Pixel distance | 0.116 x 0.348 |
| Brightness | 270 cd / m² |
| Video input | 1Vp-p FBAS |
| Audio input | 50mV (min.), stereo |
| Audio output | Built-in 4cm, 200mW speaker, stereo earphone |
| Control | Brightness, contrast, colour, volume |
| Power source | 9 ~ 20v DC, via included power supply 230v AC |
| Power consumption | 8W max. at 12v DC |
| Ambient temperature | 0° ~ +50°C |
| Colour casing | Black |
| Delivery scope service kit | Bag, accumulator, charger, mains supply, cables |
| Dimensions | 162(W) x 131(H) x 54(D) mm |
| Weight | 2.95kg (incl. service kit) |

| | Tes | sters | |
|---|-----|-------|--|
| | 103 | | |
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| instant voltage resters | 430 ~ 439 |
|--------------------------------|-----------|
| Instant Magnetic Field Testers | 440 |
| Multimeters | 441 ~ 442 |
| Clamp Meters | 443 ~ 444 |
| Sound Level Meters | 444 ~ 446 |
| Light Matera | 447 440 |

Volt Stick 230Y: Instant Voltage Tester (230v)

The original and still the best, Volt Stick is an instant tester for safely checking the presence of an AC voltage, without making any disconnections in cables, wall sockets, fuses, circuit breakers, junction boxes, etc. No current flow is needed for correct operation.

The red indicator in the tip will illuminate on detection of AC voltage simply by applying the tip close to any connection point, or moving it along any insulated cable.

All Volt Stick models are fully approved to IEC 61010-1, CAT111 1000v AC and CE.

Features:

- · Locates breaks in cables
- Detects blown fuses inside plugs or fuse holders
- Distinguishes between live and neutral wires in both single and three-phase supplies
- Identifies voltage-carrying cables in junction boxes
- Identifies faulty in-line switches
- · Locates defective in-series light bulbs
- . Optimised for 230v AC





Specifications:

| Model: | Volt Stick 230Y |
|-----------------------|--|
| Voltage range | 220 ~ 230v AC |
| Sensitivity | Indicator will illuminate at 4mm distance of a 2.5mm conductor carrying 220v |
| Response Time | Immediate |
| Intrinsically Safe | No |
| Power Requirements | 2 x Standard AAA alkaline batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III, 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.035kg (including batteries) |

Volt Stick SOUND: Instant Voltage Tester with Sounder (230v)

The Volt Stick SOUND features a detection buzzer for even greater clarification. Also ideal for 'detection round corners', in bright daylight and in awkward out of sight areas. High visibility green tube for ease of identification if dropped or hidden in the toolbox.

Features:

- Added Sounder feature
- · Locates breaks in cables
- Detects blown fuses inside plugs or fuse holders
- Distinguishes between live and neutral wires in both single and three-phase supplies
- Identifies voltage-carrying cables in junction boxes
- Identifies faulty in-line switches
- Locates defective in-series light bulbs





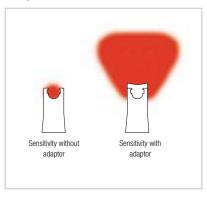
| Model: | Volt Stick SOUND |
|-----------------------|---|
| Voltage range | 220 ~ 230v AC |
| Sensitivity | Functions @ 4mm distance from 2.5mm² conductor carrying 220v AC |
| Response Time | Immediate |
| Intrinsically Safe | No |
| Power Requirements | 2 x Standard AAA alkaline batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III, 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.04kg (including batteries) |

Volt Stick PRO230: Instant Voltage Tester with Shielded Fork Tip (230v)

The PRO230 features a unique 'shielded' fork tip for highly selective and accurate testing for presence of AC voltage in specific cables or wires. Ideal for professional, close proximity testing and installation

Features:

- Unique forked tip gives unsurpassed selectivity and reduces the risk of spurious indications
- Live cables can easily be detected in equipment cabinets, fuse boxes, etc
- Cables and connections can easily be checked in low voltage equipment too
- Extremely safe when measuring in junction boxes
- With the supplied field strength amplifier, anti-tamper, earthed outlets can be checked.
- Powerful red light in the tip to indicate voltage
- Fully insulated for safe use







Specifications:

| Model: | Volt Stick PR0230 |
|-----------------------|--|
| Voltage range | 230v AC |
| Sensitivity | Functions upon contact with cable carrying 220v AC |
| Response Time | Immediate |
| Intrinsically Safe | No |
| Power Requirements | 2 x AAA (LR03) batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -10° ~ +50°C |
| Overvoltage | CAT III, 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.04kg (including batteries) |

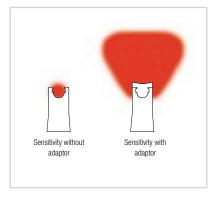
Volt Stick PRO

Volt Stick PRO12: Instant Voltage Tester with Sheilded Fork Tip (12 ~ 600v)

The PRO12 features a unique 'shielded' fork tip for highly selective and accurate testing for presence of AC voltage in specific cables or wires. Ideal for professional, close proximity testing and installation work.

Features:

- Unique forked tip (patented for) gives unsurpassed selectivity and reduces the risk of spurious indications
- Live cables can easily be detected in equipment cabinets, fuse boxes, etc
- Cables and connections can easily be checked in low voltage equipment too
- Extremely safe when measuring in junction boxes
- With the supplied field strength amplifier, anti-tamper, earthed outlets can be checked.
- Powerful red light in the tip to indicate voltage
- Fully insulated for safe use



| Model: | Volt Stick PR012 |
|-----------------------|--|
| Voltage range | 12 ~ 600v AC |
| Sensitivity | Functions upon contact with cable carrying 220v AC |
| Response Time | Immediate |
| Intrinsically Safe | No |
| Power Requirements | 2 x AAA (LR03) batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III, 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.04kg (including batteries) |

Volt Stick 110: Instant Voltage Tester (110v)

This high sensitivity version of the Volt Stick provides instant, non contact checking for the presence of AC voltage down to 110v, without making any disconnections in cables, wall sockets, fuses, circuit breakers, junction boxes etc.

This 110v version is ideal for construction site temporary supplies and, of course, for use in mains testing in the USA.

The red indicator in the tip will illuminate on detection of AC voltage simply by applying the tip close to any connection point, or moving it along any insulated cable.

Features:

- · Locates breaks in cables
- Detects blown fuses inside plugs or fuse holders
- Distinguishes between live and neutral wires in both single and three-phase supplies
- Identifies voltage-carrying cables in junction boxes
- Identifies faulty in-line switches
- Locates defective in-series light bulbs
- Special flat tip for use on US-style sockets
- · Optimised for 110v AC



Specifications:

| Model: | Volt Stick 110 |
|-----------------------|--|
| Voltage range | 90 ~ 400v AC |
| Sensitivity | Indicator will illuminate at 4mm distance of a 2.5mm conductor carrying 110v |
| Response Time | Immediate |
| Intrinsically Safe | No |
| Power Requirements | 2 x Standard AAA alkaline batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III, 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.035kg (including batteries) |

• VSPU1: Volt Stick Proving Unit

This newly-developed Proving Unit has been specifically designed to test the functionality of the Volt Stick 230v range and LV50. The instrument internally generates a 220 $^{\sim}$ 240v source when the tip of a Volt Stick is inserted into the test portal of the Proving Unit.

Always test the operation of the Volt Stick with the Proving Unit prior to use and immediately following use to ensure the Volt Stick is operating correctly.

Suitable for use on Volt Sticks with a 4mm diameter tip that works on $220\sim240v$, 50/60Hz AC supplies.

Features:

- Immediate functionality proving of Volt Stick 230v product range
- Simple, effective and lightweight unit
- Sealed, battery-powered unit
- Provides easy storage for a single Volt Stick unit

(Not suitable for PRO12, PRO 230 and 110v models)



| • | |
|-------------------------|------------------------------------|
| Model: | VSPU1 |
| Compatible with | Volt Stick 230Y, 230B, SOUND, LV50 |
| Electrical Field Output | 220 ~ 240v |
| Response Time | Immediate |
| Power Requirements | Battery powered, sealed unit |
| Dimensions | 185(L) x 41(W) x 41(H) mm |
| Weight | 0.2kg |

- Volt Stick EX110: Instant Voltage Tester (110v) - Intrinsically Safe 6
- Volt Stick EX230: Instant Voltage Tester (230v) - Intrinsically Safe 6

These intrinsically-safe EX110 & EX230 versions are ATEX approved for use in hazardous areas such as chemical plants, oil refineries and off-shore rigs.

Features:

- Locates breaks in cables
- Detects blown fuses inside plugs or fuse holders
- Distinguishes between live and neutral wires in both single and three-phase supplies
- Identifies voltage-carrying cables in junction boxes
- Identifies faulty in-line switches
- · Locates defective in-series light bulbs
- Intrinsically safe



Specifications:

| Model: | Volt Stick EX110 | Volt Stick EX230 |
|-----------------------|--|--|
| Voltage range | 110 ~ 230v AC | 220 ~ 230v AC |
| Sensitivity | Indicator will illuminate at 4mm distance of a 2.5mm conductor carrying 110v | Indicator will illuminate at 4mm distance of a 2.5mm conductor carrying 240v |
| Response Time | Immediate | Immediate |
| Intrinsically Safe | Yes | Yes |
| Power Requirements | 2 x Standard AAA alkaline batteries (supplied) | 2 x Standard AAA alkaline batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C | -20 ~ +50°C |
| Overvoltage | CAT III 1000v AC | CAT III 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm | 145(L) x 18(Ø) mm |
| Weight | 0.035kg (including batteries) | 0.035 kg (including batteries) |

Volt Stick LV50: Instant Voltage Tester (50v) -Intrinsically Safe 6

This product could save your life! This high sensitivity version (testing down to 50v) is also intrinsically safe, making it an essential 'life-saver' testing tool for utilities engineers as well as for use in hazardous areas such as chemical plants, oil refineries and off shore rigs.

Used as a safety device to make sure metallic surfaces, pipework and cables are safe from potentially lethal voltages.

Approvals:

EEx IB IICT4 Nemko 03ATEX 1456 Nemko 0470

Features:

- EEx approved voltage indicator for use in explosive environments
- Voltage indicator with safety handguard to avoid unintentional contact with live conductors
- Voltage range 50 ~ 1000v AC
- Fully insulated for safe use
- · Intrinsically safe





| • | |
|-----------------------|---|
| Model: | Volt Stick LV50 |
| Voltage range | 50 ~ 1000v |
| Sensitivity | Indicator will illuminate at 4mm distance of a 2.5mm conductor carrying 50v |
| Response Time | Immediate |
| Intrinsically Safe | Yes |
| Power Requirements | 2 x Standard AAA alkaline batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.035kg (including batteries) |

Magnet Stick: Instant Magnetic Field Tester

The Magnet Stick provides safe and simple checking for the presence

Upon testing and without metallic contact, the lamp lights immediately where there is a magnetic field (e.g. an activated coil in a solenoid valve). Equipment can be tested without having to switch it off and magnetic coils can often be tested through their protective cover, saving hours of dismantling time.

The Magnet Stick responds to all kinds of magnetic fields from alternating or direct current, to permanent magnets.

- Powerful red light in the tip to indicate presence of a magnetic field
- Solenoid valves in pneumatic and hydraulic control equipment can easily be tested
- · Test relays with coils and electrically controlled solenoid valves in all types of vehicles and machines
- · Test solenoid valves when servicing oil burners

Applications:

- Testing operating solenoid valves in pneumatic and hydraulic
- · Testing relays with coils and electrically-controlled solenoid valves in all types of vehicles and machines
- · Testing solenoid valves when servicing oil burners





Specifications:

| Model: | Magnet Stick |
|-----------------------|-------------------------------------|
| Sensitivity | 300 Gauss, (0,3 mT)V |
| Response Time | Immediate |
| Intrinsically Safe | No |
| Power Requirements | 2 x AAA (LR03) batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III, 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.035kg (including batteries) |

Magnet Stick EX: Instant Magnetic Field Tester - Intrinsically Safe 🐿

The ATEX-Approved version of the Magnet Stick for use in hazardous areas such as chemical plants, oil refineries, offshore rigs and explosive enviroments.

Features:

- Powerful red light in the tip to indicate presence of a magnetic field
- · Easy to use
- Solenoid valves in pneumatic and hydraulic control equipment can
- Test relays with coils and electrically controlled solenoid valves in all types of vehicles and machines
- Test solenoid valves when servicing oil burners
- · Intrinsically safe

Applications:

- · Testing operating solenoid valves in pneumatic and hydraulic control equipment
- · Testing relays with coils and electrically-controlled solenoid valves in all types of vehicles and machines
- · Testing solenoid valves when servicing oil burners



| Model: | Magnet Stick EX |
|-----------------------|-------------------------------------|
| Sensitivity | 300 Gauss, (0,3 mT)V |
| Response Time | Immediate |
| Intrinsically Safe | Yes |
| Power Requirements | 2 x AAA (LR03) batteries (supplied) |
| Relative Humidity | 80% @ 30°C, 50% @ 40°C |
| Operating Temperature | -20 ~ +50°C |
| Overvoltage | CAT III 1000v AC |
| Dimensions | 145(L) x 18(Ø) mm |
| Weight | 0.035kg (including batteries) |

- **DMM902:** Pocket-Size Multimeter
- DMM903: Pocket-Size Multimeter
- DMM904: Pocket-Size Multimeter

A handy, pocket-sized everyday range of meters for every engineer, with the added benefit of a built-in Volt Stick and torch.

Despite their small size, these instruments have a very high safety approval (CAT IV 600v, CAT III 1000v). They are protected against overloading by an electronic fuse. When not in use, the test probes can be parked at the rear of the instrument body.

All DMM models are autoranging and have diode test, continuity buzzer, auto power off and ion battery indicator.

Features:

- LCD display with backlight
- Built-in non-contact AC voltage detector plus flashlight
- Measures voltage, resistance, diode function & continuity
- Double-moulded case
- CAT III 1000v, CAT IV 600
- Auto-ranging with auto power off
- Silicone test leads
- · Protective holster





Extremely compact meters

| Model: | DMM902 | DMM903 | DMM904 |
|-------------------|-------------------------------------|-----------------------------|-----------------------------|
| Display | 2000-count | 2000-count | 4000-count |
| DC Voltage Ranges | 0.1mv ~ 600v | | |
| AC Voltage Ranges | 1mv ~ 600v | | |
| AC/DC Current | - | 0.1μA ~ 200mA | 0.1μA ~ 200mA |
| Resistance | $0.1\Omega\sim 20m\Omega$ | $0.1\Omega \sim 20 m\Omega$ | $0.1\Omega \sim 40 m\Omega$ |
| Capacitance | - | - | 1pF ~ 200μF |
| Frequency | - | - | 0.001Hz ~ 10kHz |
| Measuring Rate | 2 per second | | |
| Dimension | 54(W) x 104(H) x 36(D) mm | | |
| Weight | 0.14kg | | |
| Power Supply | 2 x AAA 1.5v batteries (inc) | | |
| Approvals | CAT III 1000v, CAT IV 600v | | |
| Safety Standards | EN 61010-1, CE, Pollution Degree II | | |

- SMM202: Smart Multimeter
- SMM203: Smart Multimeter
- SMM204: Smart Multimeter

Smart Multimeters that automatically know what to measure.

If there is a voltage, the multimeter measures the voltage; if there is resistance, it measures resistance; Quite simply SMART.

SMM-202 and SMM-203 have smart measurement functionality, while SMM-204 also has an option for manual measurement selection. Functions such as diode testing, continuity buzzer and capacitance measurement can be selected at the touch of a button.

All instruments feature automatic shut-off to conserve battery life.

Instruments are supplied with batteries and thin, flexible siliconeinsulated leads.

Features:

- Voltage AC/DC 0 ~ 600v (SMM 202, 203 & 204)
- Current AC/DC 0 ~ 4A (SMM 203 & 204)
- Resistance 0 ~ 40m Ohm (SMM 202, 203 & 204)
- Buzzer (<100 Ohm) (SMM 204 only)
- Capacitance 0.01nF ~ 4000 uF (SMM 204 only)
- Hold and Min-Max functions (SMM 204 only)



| Model: | SMM202 | SMM203 | SMM204 | |
|----------------------|--|---------------------------|-------------------|--|
| Display | 3 3/4 Digits, 4000 Counts, Updates 3sec | | | |
| AC/DC Voltage Ranges | 0 ~ 500v | | | |
| AC/DC Current | - | 0 ~ 4A | 0 ~ 4A | |
| Ohm | | $0\Omega \sim 40 m\Omega$ | | |
| Diode Test | - | - | Yes, approx 2.8v | |
| Buzzer | - | - | Yes < approx 100Ω | |
| Capacitance | - | - | 0 ~ 4000μF | |
| Max Voltage | Between any terminal and earth ground 600v RMS | | | |
| Overload Indication | 'OL' displayed in top right of the LCD | | | |
| Dimension | | 84(W) 161(H) x x 30(D) mm | | |
| Weight | 0.21kg | 0.21kg | 0.21kg | |
| Power Supply | 2 x 1.5v AA alkaline (included) | | | |
| Safety Standards | Standards of IEC61010 Pollution Degree 2 | | | |

TENMARS

• TM-1016: HVAC Auto-ranging Clamp Meter

Features:

- Jaw size 30mm
- Supplied with TP-03 Beaded temperature probe
- Data Hold
- Auto Range
- Backlit Display

Specifications:

| Model: | TM-1016 |
|-----------------------|-------------------------------------|
| Max Measuring Current | 400A |
| Display Counts | 4000 Count Backlit LCD |
| Max. Conductor Size | 30mm |
| AC Current | 0.1 ~ 4000uA, 0.01A~400A ±(2.0%+10) |
| DC Current | 0.1 ~ 4000uA, ±(1.0%+2) |
| AC Voltage | 1mv ~ 600v, ±(1.0%+3) |
| DC Voltage | mv ~ 600v, ±(0.8%+2) |
| Resistance | 0.1 ~ 40MΩ, ±(0.8%+2) |
| Continuity Buzzer | Yes |
| Bargraph | Yes |
| Autorange | Yes |
| Auto Power OFF | Yes |
| Data Hold | Yes |
| Dimension | 64(W) x 39(H) x 205(L) mm |
| Weight | 0.28kg (including battery) |
| Power | 2 batteries 1.5v AAA type |



• TM-27E: 600A AC/DC True RMS Digital Clamp Meter

Features:

- Jaw size 35mm
- Data Hold
- Auto Range
- Backlit Display

| Model: | TM-27E |
|-----------------------|---------------------------|
| Max Measuring Current | 600A |
| Display Counts | 4000 |
| Max Conductor Size | 35mm |
| AC Current | 0.1A ~ 600A, ±(2.0%+5) |
| DC Current | 0.1A ~ 600A, ±(1.5%+5) |
| AC Voltage | 0.1mv ~ 600v, ±(1.2%+7) |
| DC Voltage | 0.1mv ~ 600v, ±(0.5%+3) |
| Resistance | $0.1 \sim 40 M\Omega$ |
| Continuity Buzzer | Yes |
| Frequency | 1Hz ~ 400kHz |
| Backlit | Yes |
| Autorange | Yes |
| Auto Power OFF | Yes |
| Data Hold | Yes |
| MAX/MIN | Yes |
| REL(ZERO) | Yes |
| Size | 218(W) x 75(H) x 43(D) mm |
| Weight | 0.38kg |



TENMARS

• YF-8030A: 1200A AC/DC Clamp Meter

Features:

- Jaw size 50mm
- 3¾ digit LCD with maximum reading 4000
- Low battery indicaton
- Max/Min hold key

Specifications:

| Model: | YF-8030A |
|-----------------------|-------------------------------------|
| Max measuring current | 1200A |
| Display counts | 4000 |
| Max conductor size | 52mm |
| AC Current | 0.1A ~ 1200A, ±(2.0% + 5) |
| DC Current | 0.1A ~ 1200A, ±(1.5% + 5) |
| AC Voltage | 1mv ~ 750v, ±(1.2% + 3) |
| DC Voltage | 0.1mv ~ 1000v (Auto), ±(1.5% + 5) |
| Resistance | 100 m $\Omega \sim 40$ M Ω |
| Continuity buzzer | Yes |
| Diode | Test Volt, 3v |
| Frequency | 0.01Hz ~ 500kHz |
| AC/DC WATT | |
| Autorange | Yes |
| Bargraph | Yes |
| Auto power OFF | Yes |
| Peak hold | |
| Data hold | |
| MAX/MIN | Yes |
| REL(ZERO) | Yes |
| Size | 221(W) x 62(H) x 35(D) mm |
| Weight | 0.5kg |



Features:

- Analogue display with quick and accurate measurement
- Compressed scales minimize range switching
- Unique selecting switch for easy operation by one-hand
- Special integrated circuit for long stability
- Battery test function



| - | |
|-------------|---------------------------------|
| Model: | YF-20 |
| Ranges | LO (40 ~ 80dB), HI (80 ~ 120dB) |
| Microphone | Capacitance microphone |
| Current | 5mA (when operating) |
| Consumption | 14mA (BATT test) |
| Size | 65(W) x 38(H) x 160(L) mm |
| Weight | 0.16kg |





• TM-100: Sound Level Calibrator

Features:

- Setting standard sound level at 94dB and 114dB
- According Standard: ANSI S1.4-1984 and IEC 942 1988 Class 2
- Low battery indicator



Specifications:

| Model: | TM-100 | |
|------------------|------------------|----------|
| Size | 48(Ø) x125(H) mm | |
| Weight | 0.29kg | |
| Output Frequency | Test Condition | Accuracy |
| | | |

• TM-101: Professional Digital Sound Level Meter

Features:

- Fast/Slow sampling with hold feature
- Analogue AC/DC output
- Alarm feature
- DC power input (PSU not supplied)
- Approved to IEC-651 Type2 and ANSI S1.4 Type2
- 1/4" UNC tripod mount fitting
- Supplied in carry case
- Supplied with batteries



| Model: | TM-101 |
|----------------------------|--|
| Test ranges | 30 ~ 130dB, LO: 30~80dB, MED: 50 ~ 100dB, HI: 80 ~ 130dB |
| Accuracy | ±1.5dB (ref 94dB @ 1kHz) |
| Resolution | 0.1dB |
| Microphone | 1/2 " Electret condenser microphone |
| Frequency Weighting | AC |
| Time Weighting | Fast/Slow |
| Dynamic Range | 50dB |
| Frequency Range | 31.5Hz ~ 8kHz |
| Size | 80(W) x 280(H) x 32(D) mm |
| Weight (including battery) | 0.3kg |

TENMARS

• TM-102: Digital Sound Level Meter

Features:

- Fast/Slow sampling with hold feature
- Analogue AC/DC output
- Alarm feature
- DC power input (PSU not supplied)
- Approved to IEC-651 Type2 and ANSI S1.4 Type2
- 1/4" UNC tripod mount fitting
- Supplied in carry case
- · Supplied with batteries



Specifications:

| Model: | TM-102 |
|----------------------------|--|
| Test ranges | 30 ~ 130dB, LO: 30 ~ 80dB, MED: 50 ~ 100dB, HI: 80 ~ 130dB |
| Accuracy | ±1.5dB (ref 94dB @ 1kHz) |
| Resolution | 0.1dB |
| Microphone | 1/2" Electret condenser microphone |
| Frequency Weighting | AC |
| Time Weighting | Fast/Slow |
| Dynamic Range | 50dB |
| Frequency Range | 30Hz ~ 8kHz |
| Size | 55(W) x 200(H) x 38(D) mm |
| Weight (including battery) | 0.29kg |

• TM-103: Autoranging Sound Level Meter with Datalogger

Features:

- 3½ digit LCD display with maximum reading of 2000
- Test range: 30 ~ 130dB
- Backlit LCD
- USB interface software for data download to Windows® compatible pc
- USB interface, 14000 records data logger
- According standard: EN61672 type 2



| Model: | TM-103 |
|----------------------------|--|
| Test ranges | 30 ~ 130dB, LO: 30 ~ 80dB, MED: 50 ~ 100dB, HI: 80 ~ 130dB |
| Accuracy | ±1.5dB (ref 94dB @ 1kHz) |
| Resolution | 0.1dB |
| Microphone | 1/2" Electret condenser microphone |
| Frequency Weighting | AC |
| Time Weighting | Fast/Slow |
| Datalogger | 14,000 records |
| Dynamic Range | 50dB |
| Frequency Range | 30Hz ~ 8kHz |
| Size | 55(W) x 200(H) x 38(D) mm |
| Weight (including battery) | 0.29kg |

• TM-201: Digital Light Level Meter

Features:

- Range ~ 200,000 Lux, 20 ~ 20,000 footcandles
- Data Hold, Max Hold & Zero adjustment features
- 1.5m flexible sensor cable
- 3½ digit LCD dislay with maximum reading 2000
- Overload indication
- Low battery indication



Specifications:

| Model: | TM-201 |
|---|---|
| Data hold | Yes |
| Max hold | Yes |
| Zero adjustment | Yes |
| Sensor | Silicon photodiode and filter |
| Measuring range | 200, 2000, 20000, 200000 Lux 20,200, 2000, 20000 Foot-candle |
| Accuracy | ±3% (Calibrated to standard incandescent lamp 2856° K) ±8% (other visible light source) |
| Angle deviation from cosine characteristics | 30° ±2% 60° ±6% 80° ±25% |

• TM-203: Autoranging Datalogging Light Meter

Features:

- 3½ digit LCD with maximum reading 2000
- Overload indication
- Low battery indication
- According to JISC1609:1993 and CNS 5119 general A class specifications
- Spectral response close to CIE luminous spectral efficiency
- Measuring intensities of illumination in unit of Lux or Foot-candle
- Measuring lights source include all visible range
- Cosine angular corrected
- Autorange
- Datalogger: RS-232 interface,7000 Records

| Model: | TM-203 |
|------------------------|---|
| Data hold | Yes |
| Max/ Min /AVG hold | Yes |
| Zero adjustment | Yes |
| Auto ranging | Yes |
| Auto power off | Yes |
| Datalogger | Yes |
| Sensor | Silicon photodiode and filter |
| Measuring range | 20, 200, 2000, 20000, 200000 Lux 20,200, 2000, 20000 Foot-candle |
| Accuracy | $\pm 3\%$ (Calibrated to standard incandescent lamp 2856° K) $\pm 6\%$ (other visible light source) |
| Angle deviation from | 30° ±2% |
| cosine characteristics | 60° ±6% |
| | 80° ±25% |



TENMARS

TM-206: Solar Power Meter

Features:

- 31/2 digit LCD display with maximum reading 2000
- End-mount sensor
- Select either Power or Transmission, Select either W/m² or BTU/FT2xh
- Data Hold/Min/Max functions

Specifications:

| Model: | TM-206 |
|-----------------------|---|
| Display | LCD, 3-1/2 digit, 2000 readings |
| Ranges | 2000 W/m², 634 BTU/ft2xh |
| Accuracy | Typically within ±10W/m2 [±3BTU/(ft2xh)] or ±5% whichever is greater in sunlight; Additional temperature error included ±0.38 W/m2/°C [±0.12BTU/(ft2xh)/°C] from 25°C |
| Angular Accuracy | Cosine corrected <5% for angles <60° |
| Drift | <±2% per year |
| Input Overload | "OL" displayed |
| Sampling Rate | 0.25/sec |
| Operating Temperature | 0°C to 50°C |
| Relative Humidity | below 80% |
| Dimensions | 55(W) x 130(L) x 39(D) mm |
| Weight | 150g approx |



Features:

- 3¾ digit LCD with backlit with maximum reading 3999
- 3 in 1 light sensor design, you can select either one (UV Power, Solar or Illumination) for measurment
- Max/Min/Avg and data hold
- Auto power off with disable function
- Low battery indication
- USB interface, Datalogging capacity: 45,000 records
- Backlit function
- Real time clock with calendar
- Rel (relative) function / Zero Adjustment

UVA Features:

- Highly reliable direct reading Instrument designed expressly for measuring light intensity at the wafer plane of mask aligners
- UV curing light sources, and any other UV light source

Solar Power Features:

- The accuracy is +/-3% at 1,000 Watts/m2
- Solar power research
- Physics and optical laboratories
- Just point the calibrated PV cell at the sun and read the irradiance in Watts/m2 or Btu/ft2.h.
- It's great for those who test PV modules or arrays in the field

Illumination Features:

- According to JISC1609: 1993 and CNS 5119 general A class spec
- Spectral response close to CIE luminous spectral efficiency
- Measuring intensities of illumination in unit of Lux or Foot-candle
- Silicon photodiode and filter. Cosine angular corrected



| Model: | TM-208: UVA | TM-208: Illumination | TM-208: Solar | |
|----------------------|---|--|---|--|
| Measuring range | 40uW, 400uW, 4,000uW, 20mW | 40, 400, 4,000, 40,000, 400,000 Lux, 40, 400, 4,000, 40,000 Foot-candle | 40, 400, 1000 W/m2, 13, 127, 634 Btu/ft2.h | |
| Resolution | 0.01uW, 0.1uW, 1uW, 0.01mW | 0.01, 0.1, 1, 10, 100 Lux 0.01, 0.1, 1, 10 Foot-candle | 0.01, 0.1, 1 W/m2 .01, 0.1, 1 Btu/ft2.h | |
| Accuracy | ±3% | ±3% (Calibrated to standard incandescent lamp 2856° K) ±6%(other visible light source) | ±5% | |
| Wavelength | 320 ~ 390nm | 400 ~ 1100nm | 400 ~ 1100nm | |
| Datalogging capacity | 4500 records | | | |
| Sample Time | Approx. 0.4 sec | | | |
| Data Output | USB PC serial interface | | | |
| Power Supply | 9 | 9v battery(NEDA 1604 IEC 6F 22 JIS 006P) | | |
| Battery life | | Approx. 100hr | | |
| Weight | Approx. 160g | | | |
| Accessories | Instruction manual, 9v battery(NEDA 1604 IEC 6F 22 JIS 006P), Carrying case | | | |
| | UVA sensor probe | SOLAR sensor probe | Illumination sensor probe | |
| Main instrument | | 55(W) x 38(H) x 130(L) mm | | |
| Sensor probe | 49(Ø) x 28(H) mm | 55(W) x 25(H) x 80(L) mm | 55(W) x 25(H) x 80(L) mm | |



Audio Installation Advice

The basic principles of effective surface-mount ceiling loudspeaker installation

The first priority of a high quality sound reproduction system is that of providing listeners with an acoustic level higher than that of any possible background noise. The system must simultaneously ensure a wide frequency range and maximum intelligibility. It should also guarantee a flat frequency response and uniform sound pressure level to give optimum listening pleasure and clarity. To meet these criteria, the hypothetical ideal solution would be to place each sound source at an equal distance from all required listening points.

Ceiling-mounted Loudspeakers

In environments offering suitable ceiling height, this 'hypothetical' ideal standard can be approximated by using loudspeakers with very wide frequency response and dispersion angles which remain consistent at different frequencies, arranged in a ceiling or 'shower'-type configuration.

This provides the following acoustic benefits:

- Maximum sound distribution uniformity
- Maximum speech intelligibility
- Constant quality of music reproduction
- Reduced reverberation in the environment
- Sound source remains at a constant distance from the listening position

Once the required loudspeaker type has been chosen and the characteristic parameters considered (eg. dispersion angle, room shape and size), the number of loudspeaker units needed to obtain constant and uniform sound dispersion can easily be calculated. The required speaker quantity is calculated by dividing the floor area in square metres by the area of coverage of each loudspeaker on the listening plane.

[Figure 1 illustrates this concept]

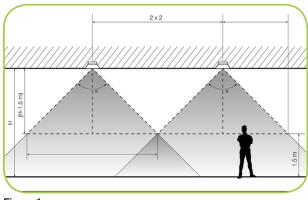


Figure 1

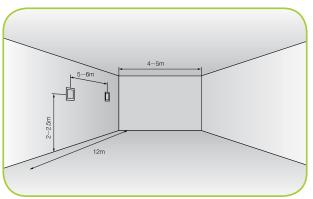


Figure 2

Wall-mounted Loudspeakers

If the architectural features of the room are not compatible with ceiling-mounted loudspeakers or if a wall-mounted solution is preferred, it is essential to observe a few basic rules to obtain the most effective sound distribution. In order to maintain the most efficient listening point inside the direct signal area, both in-wall and surface mounted loudspeakers with power from 6 to 20W should be installed at a height between 2 and 2.5metres.

The maximum distance between adjacent loudspeakers must be no more than $5{\sim}6$ metres along the length of the room, where the room is no wider than $4{\sim}5$ metres.

For wider rooms (eg, 8~10 metres), it is recommended to install loudspeakers in an alternate pattern along both opposite walls, to provide adequate coverage and maintain sound pressure at the best possible constant level throughout the area for coverage.

[see Figures 2 and 3]

Corridor/Tunnel: Area Coverage

For effective sound distribution in corridors, tunnels or passenger platforms in railway/underground stations, horn speakers (A) are normally specified for increased voice clarity in these high ambient noise conditions. For higher quality sound reproduction, 'sound projectors' can be used as an alternative.

In all cases, these loudspeakers must be installed at a maximum distance of 15 metres from one another, mounted all in the same direction and in observance with the phase of each loudspeaker. Alternatively, bi-directional versions (B) of these loudspeakers can be considered, positioned at a maximum of 30 metres apart (again observing phasing).

[see Figure 4]

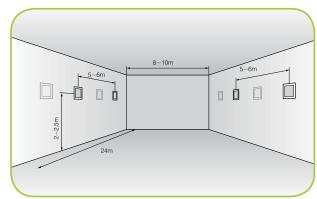


Figure 3

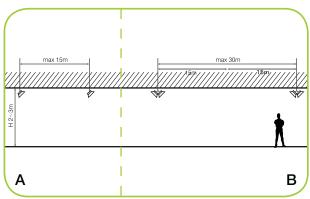


Figure 4



Degrees of protection (I.P. rating)

The characteristics of a product in terms of its resistance to the penetration of solid objects and liquids is indicated by the letters IP (Ingress Protection) followed by two numbers in accordance with EN standards 60529-CEI 70-1.

IP degree of protection

- The first number identifies the level of protection against the ingress of solid objects. Number from 0 to 6.
- The second number identifies the level of protection against penetration of liquids. Number from 0 to 8.

First IP number:

- O Not protected
- 1 Protected against the ingress of solid objects larger than 50mm diameter
- 2 Protected against the ingress of solid objects larger than 12mm diameter
- 3 Protected against the ingress of solid objects larger than 2.5mm diameter
- 4 Protected against the ingress of solid objects larger than 1mm diameter
- 5 Protected against dust penetration
- 6 Totally dust-proof

Speakers, Decibels, SPL:

| Distance from speaker: | 1m | 2m | 3m |
|---|--------------|------------------|----|
| Lose 6dB each time distance is doubled from speaker | Add 3dB when | power is doubled | |
| SPL(dB)@1W | 95 | 89 | 83 |
| SPL(dB)@2W | 98 | 92 | 86 |
| SPL(dB)@4W | 101 | 95 | 89 |
| SPL(dB)@8W | 104 | 98 | 92 |

Quantity of Ceiling Speakers per Sq/metre for background music:

| Floor Area: | Q | uantity of Speakers: | Floor Area: |
|-------------|-----------------------|----------------------|---------------------|
| | Ceiling Height = 2.5m | Speaker Spacing = 5m | Coverage = 25Sq.m |
| 100 Sq.m | 4 x | Speakers | Quiet 55dB Tap @1W |
| 250 Sq.m | 10 | x Speakers | Normal 60dB Tap @2W |
| 1000 Sq.m | 40 | x Speakers | Noisy 65dB Tap @3W |

Second IP number:

- O Not protected
- 1 Protected against vertically dripping water
- 2 Protected against water dripping at an angle (up to 15° from the vertical)
- 3 Protected against rain
- 4 Protected against water spray
- 5 Protected against water jets
- 6 Protected against waves
- 7 Protected against the effects of temporary immersion
- 8 Protected against the effects of permanent immersion





A few basic rules must always be observed

1. When the load is on 'constant impedance': it must be connected to the relative socket.

For example, a load of 4W must be connected to a socket marked 4W, and so on. The power that the load can withstand must always be greater than the amplifier's rated power.

For example in the case of a load of 100W, the amplifier must have a power equal to or less than 100W.

2. When the load is at 'constant voltage'; it must be connected to the sockets indicating output at constant voltage - 50, 70 or 100v; the power that the load can withstand must always be less than or equal to the amplifier rated power. For example, with a load of 100W, the amplifier must have a power equal to or greater than 100W.

To calculate the required value of a 100v line amplifier power, simply add together the power of each loudspeaker. (See Figure 5).

However, on a constant impedance system, the load must have an equivalent impedance (series/parallel) equal to or greater than the minimum value indicated on the amplifier output (See Figure 6).

The loudspeaker power supply lines, with no connected attenuator, must be with 2 sheathed wires; cables with 3 sheathed wires are required in the case of lines using attenuators which can be disabled if an emergency is activated. Adequate wire sections are required:

- 1.5mm² for lines up to 500W power, 2.5mm² for lines with power over 500W. The following general standards must also be observed:
- Never use a single cable (lead) for loudspeaker connections: this would cause disturbance producing a loud 'HUM'
- Never use shielded cables for the loudspeaker connections: this would cause serious damage to the power units.

Low Impedance and 100v Line Systems

Constant impedance lines (low impedance) are used normally in the case of a low number of loudspeakers, placed at a minimum distance from the amplifier <20m.

The constant voltage connection system (e.g. 100V line) offers a host of advantages making it ideal for sound systems of all sizes, above all in the case of long distance speaker runs. This connection system requires each loudspeaker to be equipped with its own line transformer, which adapts the impedance of the loudspeaker (usually very low) to the much higher level of the line itself. In proportion to power transmitted, the current circulating on a line at 100V is considerably lower than that circulating on wires of a constant impedance system and, consequently, drops along the line are less frequent; therefore the cable gauge can be lower.

The function of the amplifier device is to raise the signal of a sound source, such as a microphone, CD player, MP3 player or an AM/FM tuner to a sufficient level to pilot the transducer LOUDSPEAKER. The amplifier has several inputs, to which the various sound sources are connected.

The sound sources have to be mixed (mixer) and acoustically modified with tone control and equalisers to optimise listening in relation to the environment's characteristics. A terminal board is also fitted to the power units.

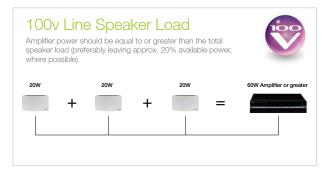


Figure 5

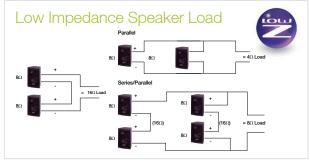


Figure 6

AV Signal Distribution Installation Advice

Our DataBay and CYP ranges of AV signal distribution equipment are capable of high quality results. This guide is intended to help achieve optimum performance from the equipment by following simple guidelines and good installation practice.

Cable:

These products range distribute AV signals via various cable types. As with any installation, the type and quality of cable can have a dramatic effect on the resultant performance.

For example, a CCTV system may be installed with all manner of RG59 cable, but the resultant differences in image quality from best to worst can be huge.

Where an AV system is extended via Cat5e / Cat6 cable, we strongly recommend the use of a Low Skew cable. Skew is a measurement (normally in nanoseconds) that measures the time delay between the first and last signal arrival in different twisted pairs. If the time difference is too large, image quality can be affected, possibly manifesting itself in bright vertical lines, ghosting, colour smudging or worst case, no image at all. Low Skew in video terms is cable with Skew rates lower than 15nS per 100m.

The following Cat-X cables should all perform well:

Belden 7987R Belden 1700A Canford 31-953 Mohawk M58813

Environmental issues:

The area surrounding an installation can also have an impact on its performance. In particular electrical noise from mains cables, fluorescent lighting or electric motors/installations, etc, could result in interference being induced into the AV cabling system and affecting its performance.

The same applies to airborne radio frequency interference.

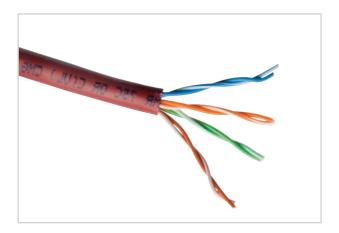
Common sense and good installation practice should minimise these effects through careful cable routing, avoiding mains cables or other areas of potential interference. In areas of high susceptibility, it would be sensible to use low skew screened cables.

Display resolutions and refresh rates:

Higher display resolutions and video refresh rates all require higher bandwidths and data rates. The result of the greater demands on the cable is, consequently, reduced achievable distances.

For example:

A display running a resolution of 480p may happily work across a 100m link; the same infrastructure running a display @ 1080p may only achieve 30m.



FAQs:

Q. What is Low Skew Cat-X cable?

A. Skew is a measurement (normally in nanoseconds) which measures signal delays between different twisted pairs in a cable. Low Skew in video terms is cable with Skew rates lower than 15nS per 100m.

Q. Can I extend the distances further than specified?

- A. This could be possible by:
 - Reducing the display resolutions
 - Using better quality Cat-X cable (low skew, shielded)
 - Using better quality video cables (e.g. Cat2 HDMI cable)

Q. I'm only using a 5 metre Cat-X link cable between the transmitter and receiver, but I cannot get a picture...

A. This can occur when using short cables of maybe 5 or 10 metres with receivers that are optimised to function over much longer distances e.g. 300m. In this case either use a slightly longer Cat-X cable or use a different receiver.

Q. I'm using a short range HDMI non-powered receiver (p/n HDMI-HR), but cannot see an image; why?

A. Some flat panel monitors use a slightly non-standard input which requires power at the HDMI input socket to function correctly. Some Samsung and Goodmans monitors are known to suffer from this issue (there may be others). However, the problem can be easily overcome by using our p/n ET-HC0101-Z in place of the non-powered HDMI-HR.

Q. If I 'mix' transmitters and receivers of different distance capabilities (e.g. AVE-301T 300m and the receiver from the AVE-M180TR 180m), what is the maximum distance achievable?

A. In all such cases you are limited to the distance of the shortest device (in this case 180m).

Q. How many levels of cascading can be achieved on HDMI?

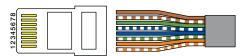
A. Normally two is recommended, although at lower resolutions and with good quality cables further cascading may be perfectly possible.

Q. Can I use stranded Cat-X patch cord?

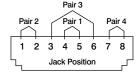
Stranded Cat-X cable is not recommended use solid installation Cat-X cable for best results.

Q. How should I wire the Cat-X cable?

A. The cable should be terminated to EIA 568B specifications.



EIA 568B specifications:



The EIA/TIA definition of 568B in the pin assignment is (1) orange white, (2) orange, (3) green white, (4) blue, (5) blue white, (6) green, (7) brown white, and (8) brown

Hints and Tips

When commissioning a professional AV system the following tips could help speed up the process and ensure a trouble-free installation:

Pre-Installation:

Undertake a full site survey. In addition to standard practice, take particular note of accurate cable lengths required, makes/models of the monitors to be connected and take into account any potential environmental factors that could cause interference. It is also preferential to have all devices powered from the same electrical phase and with common grounding.

Wherever possible, bench test your proposed system set-up at your facility before proceeding to site. Use interconnecting cables as they will be used on site, i.e. the same cable types and lengths.

During Installation:

Follow the user manuals to assist the installation process.

Firstly, if the first transmitter in the link has a local monitor output, then connect up a monitor to this port to confirm that the transmitter is receiving a valid signal. Use the EQ control (if available) on the transmitter to obtain the optimum picture quality. You can then proceed to setting up the receiver end.

Set-up the system by starting with the lowest video resolution outputs from the video source and establishing a working link. You can then increase the display resolutions in stages to ensure full system compatibility. Ensure the monitor is capable of displaying at the desired resolutions and refresh rates.

Most devices should function correctly with the EQ set to AUTO. However, if this does not give satisfactory results, then the EQ can be set manually. Please note that in manual mode the changes may not be instantaneous and may lag by a second or two. Therefore, adjust the EQ in small stages at a time and check the result on screen.

If a monitor does not appear to be displaying video, check the obvious things like power(!) correct source mode selected (e.g. HDMI, VGA, S-Video) and for correctly engaged connectors. If this fails, completely power down the monitor (not just standby) and then re-apply the power.



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