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- All units in this catalogue are primarily intended for installation in passenger cars. Use in lorries, tractors, off-road vehicles, construction machinery, boats, and other special-purpose vehicles or on motorcycles is not recommended.
- There is no guarantee that all units in this catalog play CCCD (Copy Control CD), Hybrid SACD (Super Audio CD), CD-R/RW and DVD  $\pm$  R/RW
- iPod is for legal or right holder-authorized copying only. Don't steal music.
- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
- The products which do not have the CD TEXT function in this catalogue can not show the onscreen information for iPod.
- Only English is available for the onscreen information for iPod function.
- LCD panels use the latest high-tech components and boast an effective pixel rate of 99.99%. However, be aware that 0.01% or less of the pixels may be defective.

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# Clarion®

Distributor

WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion



Printed in Singapore

# Clarion®

2005



MULTIMEDIA  
 MAIN UNITS  
 CHANGERS  
 AMPLIFIERS  
 SUBWOOFERS  
 SPEAKERS

## Synchronising you, your sound, and your images.

The Clarion 2005 line up has reached a new high in car multimedia. It offers an interface that's as intuitive as having a conversation, creating an audiovisual space that synchronises sound and images with human emotions. It strives to deliver high quality musical and visual entertainment to people in the styles they want and offer information the driver needs in a timely manner. Clarion's Human-Machine Interface concept is a masterstroke of usability that brings true "comfort" and "safety" into your car, changing yesterday's fiction into today's fact.



be heard  
be seen

# Clarion® 2005

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**iPod**

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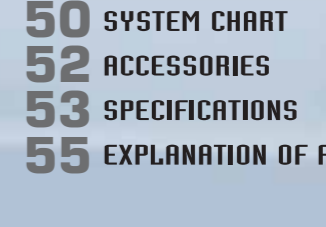
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# REDEFINING THE TERM HUMAN-MACHINE INTERFACE

## IT'S INNOVATION YOU CAN SEE, HEAR AND TOUCH ... IT'S CLARION

Our pursuit of perfection has led us down many paths. While sound and vision have been at the core of this endeavor, superior control is what binds together everything that we do. That's why perfecting the concept of Human-Machine Interface (HMI) is so important to us. And it is this reason that you'll see what we've achieved throughout our 2005 product lineup. Our purpose: to bridge the gap between man and machine. This is the future made now ... this is Clarion.

### It's visual control ... visual entertainment

Technological advances can't be regarded as true progress if they're difficult to use. That was the concept



behind Clarion's new VRX756VD, a mobile multimedia station that represents Clarion's answer to today's iPod revolution. Containing a fully integrated user interface that provides the same look and feel as Apple's popular music player, this technological innovation is the direct result of Clarion's years of experience with HMI technology.

### Digitally Remastered: Optimedia

Fusing technological artistry with cosmetic functionality, Optimedia represents Clarion's further understanding of HMI technology. For 2005, Clarion's remastered Optimedia technology expands to two new main unit models, both of which utilize touch-screen control to minimize the use of function buttons and knobs. The cosmetic functionality of these units doesn't stop there, however along the bottom edges of each new Optimedia screen are four half circles,



designed directly into the faceplate of each source unit. More than just cosmetic embellishments, these grooves serve as finger markers when controlling the unit. This is cosmetic integration at its best ... this is Optimedia.

It's not about being first. It's about a deep running passion for creating the world's best HMI-equipped source unit. It's about effortless control and unlimited functionality. It's wrapping all of this innovation into a single-DIN package.

### 4.2-inch multicolour TFT display

Offering sharper images and more detailed information, Clarion outfits its new Optimedia main units with a spacious 4.2-inch TFT display. This is another example of Clarion's pursuit of better HMI technology.

### Optimedia with Touch-Panel control

Clarion's Optimedia technology goes beyond audio-source navigation. Enhance your sound, or adjust the display setting with a simple touch of the 4.2-inch TFT display.

### Rotary volume control

Clarion's rotary volume control provides high-accuracy control in an environment that doesn't allow for anything less. With its rubberized outer rim, users are ensured quick and precise response.

### Touch-Panel operation

Clarion incorporates a unique swipe control action when users are navigating through all sources. All it takes is a simple up and down swipe action for forward and reverse control.

### Music Catcher system

It's music storage made easy. This one-touch CD recording technology is easy to use and easy to access. There's no complicated connections, and no removable hard drives. All it takes is one button to enjoy hours of skip-free music playback ... guaranteed.

### Multicolour TFT display

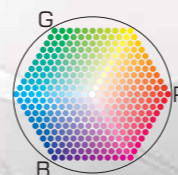
For better, more detailed images, Clarion incorporates a 4.2-inch TFT display for source units outfitted with Clarion's remastered Optimedia technology. Also enhanc-



ing the cosmetics of these units, this improved viewing and control screen provides users with more system information, such as a system's current status, song and artist title, as well as function and mode indicators. This high-tech innovation is a direct result of Clarion's pursuit of HMI-based technologies. It's about cosmetic design with a purpose. It's about constructing a source unit that combines top-notch entertainment with unparalleled control and visibility.

### Multicolour display for choreographed cosmetics

Clarion offers four source units in 2005 that allow users to adjust the RGB levels to cosmetically harmonize the look of their radio to their vehicle's dashboard and gauge cluster illumination. Users can choose from 728-colour possibilities. For Optimedia-controlled main units, users can also adjust the illumination of the screen to accommodate daytime and nighttime viewing.



## HMI: Bridging the gap in style

### Retractable Rotary Volume knob with rubberized grip



The large volume control knob features a rubberized outer rim for precise control over your system's sound levels. For added ease of use, Clarion illuminates the area around the volume knob for better recognition during nighttime use.

### Smart design ... Smart Control

Clarion's new Smart Control Key, outfitting three source-unit models in 2005, provides users with simple up and down operation on every source. Located on the rotary volume control, Clarion's Smart Key is also key when navigating through sound menus. It's easy ... It's a smarter HMI.



### Anti-theft safeguards

A Detachable Control Panel (DCP) is a useful tool against would-be thieves, as it keeps them guessing as to what type of system you have inside your car. Acting as a nighttime deterrent, Clarion equips select source unit models with a blinking LED indicator when the faceplate is removed. So, pop off the faceplate and bring it with you. It's just another step Clarion has taken to ensure longtime use and enjoyment.



### New cosmetic faceplate styling

Clarion's 2005 styling speaks to the high-tech innovation of this year's line. For its two Optimedia-equipped source units, Clarion unveils a new stainless steel-styled faceplate. Also introduced this year are three new aluminum-styled faceplate designs. Precision molded and surface treated, Clarion's new faceplates provide the perfect cosmetic enhancement to any vehicle interior.



Each individual part works in tandem and comprehensively based on HMI, to dramatically increase driver visibility, operability, and safety.

# KEEPING PACE WITH TODAY'S DIGITAL AGE

## Staying in tune with today's music lifestyles.

The expectations of car audio are evolving. Sound quality is now riding shotgun in today's digital age. People want more ... more access to their musical and video content. Not to be outdone, however, sound quality is as much a part of this revolution as the need for compatibility. This is reflected in Clarion's product line – from the expansion of our Music Catcher one-touch CD recording technology to providing in-car access to today's hottest portable music player. Our pursuit of these new expectations doesn't stop there, either. Sound quality, the cornerstone of what we do, also plays a role in this new age. We've developed sound-enhancement features geared toward new media formats such as MP3 and WMA. We do this because we understand that music lifestyles are in a constant state of change. We also understand that it is our job to stay one step ahead.



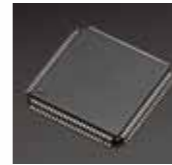
### Optimedia: The evolution is here

Witness the evolution of Clarion's Optimedia display technology. When the Optimedia DXZ946MP was first introduced last year, Clarion broke new ground in main unit display technology. We're taking this touch-panel, graphics-based innovation even further in 2005. Two units harness this evolution: the DXZ956MC and the DXZ856MP. With better on-screen menus, vastly improved motion graphics ... it's not what you can't do, it's about what you can achieve with Clarion's new Optimedia technology. It's unprecedented control and visibility ... It's Optimedia.



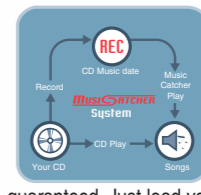
### AC Processor IV: addressing new-age digital sound processing

Introducing the latest in sound processing technology: Clarion's AC Processor IV. For vibrant, dynamic sound that's straight out of a movie theatre or concert hall, Clarion's newest version of its spatial analysis technology puts you in total control. Engage Clarion's Time Alignment Control to adjust the time delay of each speaker, or correct irregular reflection and polarisation with the Virtual Space Enhancer. Source units equipped with this technology also offer a Parametric EQ for extreme system customisation, as well as Clarion's exclusive ADF sound enhancer.



### Music Catcher expanded ... more units, more possibilities

No complicated connection to any external device ... Music Catcher. Not less than 3 models feature this one touch CD recording technology transforming those units into in-dash digital juke box. Music Catcher allows for CDless, skip-free music playback ... guaranteed. Just load your CD into the Music Catcher source unit, select a track and hit the record button. This means from three to six hours plus of music, depending on model. This is high-tech innovation made easy.



### Sound Quality Features

**MOS-FET power amp: it's pure energy for your sound system**  
The crossover distortion that occurs during voltage conversion of the current from the preamp is suppressed by dividing power and ground into L-ch and R-ch to separately drive the Power IC. And since MOS-FET is a highly efficient element with a linear operation curve, it dramatically improves S/N of the high frequency range, which is especially susceptible to noise. This results in smooth and rich expressive capabilities, and sound reproduction infinitely close to the original source.



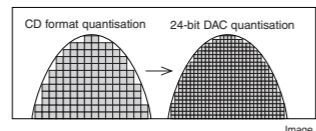
**MP3/WMA playback: responding to today's digital age**  
MP3 and WMA music files have revolutionised the way we listen to music. And although different, their effects on today's music lifestyle can be felt similarly. Created by the MPEG1 Audio Layer3, MP3 allows users to transfer large amounts of music from the PC onto a CD-R or CD-RW up to 10 hours worth of music. And because it



supports Variable Bit Rate (VBR) compression, users can adjust the quality of the compression for more music or for better

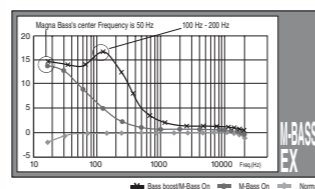
sound quality. Windows Media Audio (WMA) also offers similar benefits, and because of its integration into the Windows XP operating system, its acceptance by music lovers continues to grow. Compared to MP3, WMA compresses songs into about half the file size, allowing users to burn twice as many songs (20 hours) onto a single disc. And even with its higher compression rate, WMA compressed music offers slightly better sound quality than MP3. So, whichever format you choose, Clarion has the solution you're looking for.

**24-bit D/A converter: music reproduction at its best**  
Utilised by high-end home audio equipment, Clarion's 24-bit D/A converters offer high-definition, audiophile-grade sound reproduction. It does this by greatly reducing



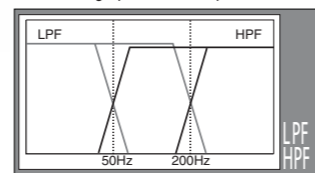
linearity errors and notch distortion, as it recreates the natural nuances and expressions true to the original source. The result is superior sound and less system noise.

**Magna Bass EX: delivering big bass to your sound system**  
Emphasise your bass with Clarion's Magna Bass EX. Compared to conventional "Loudness" features, which boost the low frequency range of 100 Hz,



Magna Bass EX boosts the ultra-low frequency with a centre frequency of 50 Hz. And with its automatic boost level control, you get well-balanced bass volume for a tighter, heavier sound.

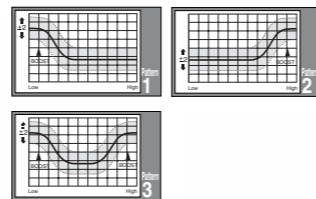
**Built-in high-pass/low-pass filters: for precise music reproduction**  
Allowing for smooth music transition, Clarion's high-pass and low-pass filters



ensure that the frequencies reaching your speakers match their output potential. This means that tweeters in a two-way setup only are driven with the high-range frequencies, and subwoofers with the low-frequency ranges. So, if you're not into muddy sound, engage Clarion's built-in high-pass and low-pass filters. The result will be accurate sound reproduction.

**Z-Enhancer Plus: (2-band EQ) for customised sound reproduction**  
Whether you want to emphasise the bass,

or select a setting that provides more impact, Clarion's Z-Enhancer Plus offers three preset EQ patterns: Bass Boost, Impact, and Excite. Users can also select Custom 1 – Clarion's 2-band Parametric EQ. When in this mode, users can adjust the gain, Q and frequency of each band for a customised sound.



### CeNET convenient connection



**iPod**  
All CeNET products can be connected to iPod units thanks to Clarion original interface.

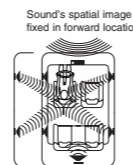


\*iPod is for legal or right-holder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

### "AC-Processor IV" – the result of advanced sound quality and sound field analysis technology.

**Built-in crossovers: delivering maximum system performance**  
Allowing for maximum system performance, Clarion's built-in crossovers separate the sound spectrum so tweeters reproduce only high-range frequencies, and subwoofers reproduce only low-range frequencies. Users can also tailor the system to support future upgrades by individually adjusting the crossover frequency, filter, slope and phase.

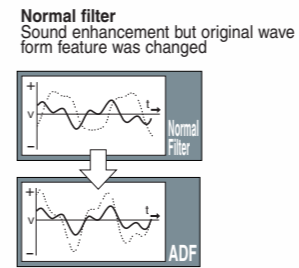
**Time Alignment control: it's pinpoint accuracy for your system**  
Calibrate your sound system so you're sitting in the "seventh row, centre" spot (optimum listening position) of your vehicle. Because music content is recorded so that imaging is in the centre of the right and left speakers, Clarion's Time Alignment Control allows users to adjust the speaker acoustics so that the same effects can be



heard in any listening position inside the car. This feature also allows you to opti-

mise your system to account for the number of passengers inside your vehicle's interior cabin.

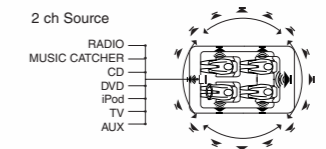
**ADF: Created to enhance your audio listening**  
ADF (Anti Distortion Filter) is a newly developed equalising system, which is designed to match peak of frequency curve to the original one. Conventional tone control or loudness is effective for emphasising bass/treble sound, however, due to phase discordance, it sometimes damages the original sound. Thanks to the Clarion's latest sound technology, ADF is able to reinforce bass/treble sound without causing such distortion, so that the original sound can be lively reproduced after equalization. Three preset patterns and one user memory is provided.



**Anti-Distortion filter (ADF)**  
Sound enhancement with original wave form feature maintained

**Dolby Pro Logic II: transforming your sound into virtual 5.1-channel surround**  
Dolby Pro Logic II is a matrix sound

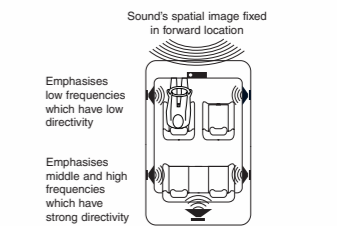
decoding technology developed by Dolby Laboratories that decodes any two-channel audio source, such as a CD or radio broadcast, and outputs it as virtual 5.1-channel sound. Clarion was the first to incorporate this innovation, which brings the sonic experience of a live concert right into the car. And since it's equipped with a Centre-Width Control and a Matrix Mode that simulates the centre-channel speaker using the front L/R speakers, you can reproduce a virtual 5.1-channel surround sound effect from a standard four-speaker setup. Users also have additional modes to choose from, all of which were created to enhance the listening experience inside your vehicle.



**Virtual Space Enhancer: directing sound for a personal listening experience**  
Virtual Space Enhancer to digitally com-

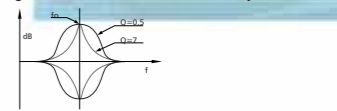
Multi mode (when selecting subwoofer)

Speaker output	Network adjustment value	Crossover Frequency		
		Crossover slope	Level adjustment	phase not/rev
CROSS-OVER	HIGH (HPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 2 kHz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	0 ~ -20 dB With switchover
	MID (LPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 2 kHz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	0 ~ -20 dB With switchover
	MID (HPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 80 Hz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	0 ~ -20 dB With switchover
	SUB (LPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 80 Hz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	+5 ~ -20 dB With switchover
SUB (HPF)	f=16, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250 Hz, THROUGH/Factory setup THROUGH	-6, -12, -18 dB/oct Factory setup -12 dB/oct		



pensate for irregular reflection, polarisation, and other acoustical problems associated with a vehicle's interior design.

**Parametric EQ: taking sound customisation to the next level**  
With Clarion's Parametric EQ users can precisely adjust the centre frequency position and level, as well as the steepness of the equalising curve. Users can also switch to professional sound control for additional system flexibility. So, for sound that's customised to your musical tastes, give Clarion's Parametric EQ a try.



# FULL-DIRECTIONAL ENTERTAINMENT LETS YOUR SPIRIT RUN FREE.

## Cutting-edge technologies and ideas make a new style of car entertainment come true.

In the front seat, people can enjoy listening to a CD or radio, while people in the back seat can watch a DVD movie on an overhead or headrest-mounted monitor, or have some thrills beating a videogame. The Clarion 2005 lineup is absolutely loaded with innovative technologies and ideas, as well as a renewed emphasis on quality, to bring exciting entertainment into your car. 5.1-channel Dolby Digital/dts Surround turns full-presence sound into a complete, moving experience. 2 zone entertainment lets people in the front and back seats to enjoy different sources and content. iPod control and game ports provide ways to access and enjoy a broader range of entertainment. In addition to offering top-notch images and sound, Clarion also offers the highest quality driving experience for people who want car entertainment that's a class above.

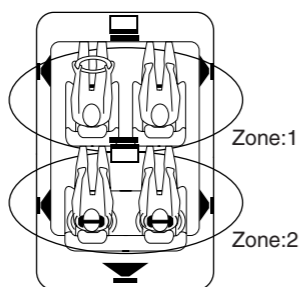
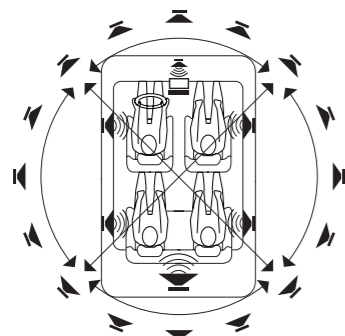
By adopting an ultra-thin display, the cumbersome black box containing the amplifier circuit and tuner is no more. Now, aside from incorporating a bigger screen, everything is contained in one chassis.

**7-inch monitor touch panel control**  
Things don't get any easier than this. Perfect for kids and great for adults too, the Clarion 7-inch touch-screen monitor puts you in charge. Offering super-simple control over audio, radio/CD, DVD/CD changers, TV reception and a Dolby Digital & dts decoder, this intuitive screen serves up one-touch menus and controls that make even the most complicated technology easy to swallow.

**Support for multimedia playback**  
This product supports a full range of DVD video, including movies, dramas and live feed video, as well as music and video CDs. The multimedia player also enables you to listen to MP3 music files recorded on a CD-R or CD-RW disk. This one unit system lets you enjoy a full range of multimedia entertainment in your car.

## 5.1-channel Dolby Digital/dts surround

First there was home theatre, now there's road theatre. 5.1-channel surround sound is a must for home entertainment today. Now you can enjoy it in your car as well. Dolby Digital and dts provide an incredibly realistic sound environment with three channels of sound in front of you (left, right and centre) together with two more behind you, plus a dedicated low-frequency sub-woofer channel that makes the sound larger than life. It all combines to produce a dynamic cinema-like sound field even within the relatively small space of your vehicle's interior. So turn your next road trip into a road show with Clarion's high-performance cinema sound.



**True 2 zone entertainment**  
Clarion's 2 zone entertainment feature is going further in 2005, offering SUV and mini van owners more flexibility when it comes to their mobile entertainment system. Now, owners of Clarion's VRX756VD get more front-seat listening options while rear-seat passengers watch and listen to a DVD or VHS movie via wireless headphones. So, plug in an iPod, or listen to a CD, the radio, or any CeNET-equipped audio source. This is versatility where you need it most ... in the car.

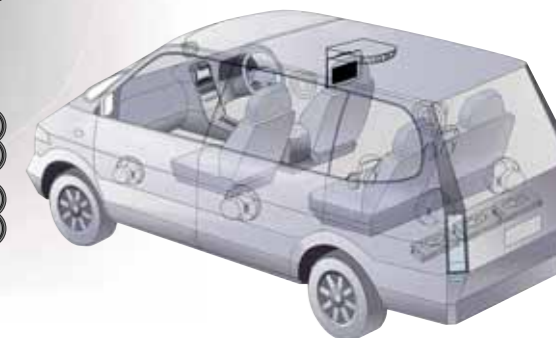
**Big sub display**  
VRX756VD are equipped with big sub display in front of the control panel. When the main display is closed for listening to non-visual sources, you can access to the utility information such as CD track number or radio station frequency.



**Steering remote control**  
Clarion's steering remote controller can control your car entertainment system for added safety and easy operation. When this sub-remote control (sold separately) is mounted, you can operate your car entertainment system safely and comfortably. (For VRX756VD, VXZ756, DXZ956MC, DXZ856MP, DXZ756MC, DXZ656MP, DXZ556MP, DB456MC, DB356MP, DB346MPV, DB256, DMZ637MP, ADZ625, ADX6655z, AXZ610, AX430)

## Whether up front, or in the back, let Clarion create

Create the ultimate mobile audio/visual entertainment system with Clarion's full line of mobile entertainment components. From its 2 zone entertainment-equipped in-dash DVD player with monitor to its rear-seat entertainment solutions, Clarion has what you need where you need it.



**Wide 8-inch display**  
Clarion achieves the world's first wide 8-inch display in an in-dash TV monitor, based on a new idea that shatters previous notions of in-dash monitors. Its large screen size was made possible with Clarion's Trinity Motion System, in which the monitor slides out, rotates, and then flips up to provide a maximum size screen in a minimum size space. This large image with high resolution and superior visibility offers excellent results for DVD viewing, such as movies and concerts, as well as TV viewing. By connecting the DVD center unit VXZ756 or DVD changer VCZ625, an exciting car entertainment environment can be easily created.



## iPods of Fun

Unplug your ears and plug in your stored iTunes music collection with Clarion's iPod ready VRX756VD. This one-cable solution not only offers complete control over the iPod, but it charges and powers Apple's popular music player during operation. And with its iPod-like control pad and information screen, users will quickly forget that their iPod is safely stored away. Best of all, Clarion has outfitted the VRX756VD with a dedicated iPod port, which means users won't have to sacrifice any additional audio sources. For control, the onscreen control pad contains a playlist access button, fast-forward and reverse-peek, as well as the play and pause button. Encircling the control pad are four additional control buttons that allow users to set the iPod to repeat, shuffle and browse. The fourth button allows users to engage Clarion's 2 zone entertainment feature. Taking it a step further, the onscreen information display provides users with a clock, track and playlist information, elapsed time and any engaged sound-enhancement features. So bring your iPod with you, Clarion's VRX756VD is waiting.

\*Only English is available for the onscreen information for iPod function.



Ready for iPod

\*iPod is for legal or right holder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

# Clarion Multimedia for 2005...

## Turn your car into a futuristic multimedia space.

Pursuing a multimedia environment that offers the joy of driving and lets everybody share the enjoyment of digital content.

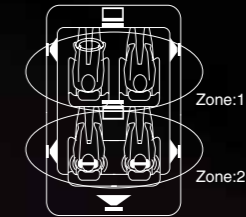
Sharing a common moment, is one of the pleasures of driving. And with multimedia, this has expanded to sharing not only music, but also rich content like movies and live broadcasts, as well as videogames. Clarion brings you all this with unrivalled, unprecedented quality and comfort. 5.1-channel Dolby Digital/dts surround turns sound into a moving experience, while our LCD displays offer touch-panel control functions, and crystal clear images. Car multimedia that's a step ahead – that's Clarion.

**Touch Panel control**  
For state-of-the-art control, Clarion equips its VRX756VD/VRX935VD in-dash, flip-out monitor with touch panel management of all features and functions, as well as CeNET-equipped Clarion components. Flip



through menus, or engage a sound-enhancement feature with a simple press of the unit's high-resolution screen. And so your VRX756VD/VRX935VD can maintain its clean, clear image, Clarion treats its display screen to resist dust and grime. This is high-tech innovation made smart.

**True 2 zone entertainment**  
Clarion's 2 zone entertainment feature is going further in 2005, offering SUV and



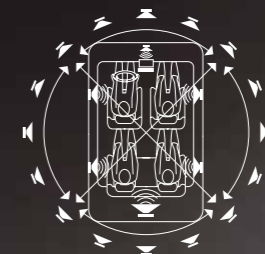
mini van owners more flexibility when it comes to their mobile entertainment system. Now, owners of Clarion's VRX756VD get more front-seat listening options while rear-seat passengers watch and listen to a DVD or VHS movie via wireless headphones. So, plug in an iPod, listen to a CD, the radio, or any CeNET-equipped audio source. This is versatility where you need it most ... in the car.

**CeNET technology**  
When you invest in a CeNET-equipped source unit, you're investing in a unit that will grow with you. Developed by Clarion, CeNET is a component connection system crafted for plug and play system upgrades. This means that owners of Clarion's new VRX756VD get total control over Clarion's 5.1-channel surround sound processor, TV Tuner, CD and DVD changer. The benefits don't stop there, either, as CeNET-equipped components aren't hampered by noise generated by the transfer of control signals. So, get hooked up with Clarion's CeNET control system.

**All-in-one rear-seat entertainment solution**  
There's nothing like an overhead, flip-down monitor equipped with a built-in DVD player. This in-demand, all-in-one solution is not only user friendly, but installer friendly as well. Clarion rear-seat entertainment line includes OHM756VD, 7-inch overhead, flip-down monitor with built-in DVD player. This is entertainment made easy.



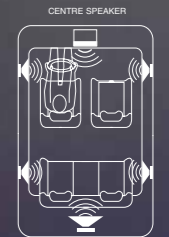
**5.1-Channel Dolby Digital/dts Surround**  
There's nothing like listening to your favorite movie or CD in true 5.1-channel surround. That's why Clarion offers a 5.1-channel-ready multimedia station with its VRX756VD/VRX935VD. With the addition of Clarion's DVH940 5.1-channel proces-



sor, one's mobile audio system can achieve Dolby Digital and dts sound decoding. So transform your listening experience into sound that literally comes to life, and get the dynamic sound field of a movie theater, and the subtle nuances and wide dynamic ranges of discrete soundtracks contained in your favorite DVD video.

**Got video ... Got options**  
Playing a DVD or VHS movie is one thing, but have you ever thought of being able to watch the day's recorded events on the family camcorder or digital camera? Clarion has. Aside from the additional video inputs equipping its rear-seat mobile video line, Clarion's offers users a convenient game port that can be installed virtually anywhere inside the vehicle. This means you can plug in that DVD and VHS player, and still have the ability to connect a gaming unit, digital camera or camcorder via Clarion's external game port.

**Half-DIN centre-channel speaker**  
There's nothing like Clarion's in-dash center-channel speaker solution. No other car audio maker can claim the installation flexibility the SRK5 offers. Roughly the size of an in-dash equalizer, the SRK5 is perfect



for 1/2-DIN- and DIN-size application. Simply put, this is the easiest in-dash solution for achieving 5.1-channel surround. Best of all, this speaker package, which includes five 3/4-inch full-range speakers and 2 one-inch, rear-mounted, mid-bass reinforcement speakers, doesn't require an external amplifier. Why? It comes with one ... a 50-watt amplifier to be exact.

**Fully motorised monitors**  
With the touch of a button, Clarion brings multimedia to life with its fully motorised flip-out monitors. Equipped with variable monitor positioning for optimal viewing,

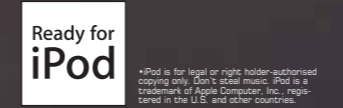


Clarion provides the ability to adjust the angle of the monitor, as well as the distance from the monitor to the dashboard. Clarion's motorised monitors also feature non-volatile memory, allowing your flip-out monitor to retain its prior settings after it is switched off.

**iPod control: answering the call of iPod fans**  
iPod control comes to Clarion in 2005, as we allow you to "Podify" your in-car experi-



ence with a new, easy-to-use source-unit interface. Compatible with all third-generation and newer iPods, the interface makes accessing your iTunes collection as easy as fast-forwarding and reverse tracking a CD. This convenient solution also charges your iPod so it's ready to go once it leaves the vehicle.



**High resolution LCD screens**  
Utilizing the latest in active matrix LCD technology, Clarion's mobile video screens offer the most vibrant, most detailed images available today. And with the addition of off-axis viewing, you are assured optimal picture quality ... no matter where you're sitting.

**Dolby Pro Logic II**  
Get right up on stage or take a seat inside the recording studio of your favourite music group with Dolby Pro Logic II, a matrix sound decoding technology that transforms any two-channel source (i.e., radio or CD) into rich 5.1-channel-like surround. Produced by Dolby Laboratories, Dolby Pro Logic II also features Centre Width, Dimension and Panorama modes for the ultimate 5.1-channel-like experience.

# More Music, More Media, More Miles of Smiles

The green illumination reflecting off the VRX756VD's piano-like finish reeks of high-tech innovation. But it's truly what's in the inside of this in-dash DVD player with fully-motorized seven-inch touch screen that truly speaks to its innovation. DVD changer ready, CD changer ready, TV tuner ready, Surround Sound ready, Sirius ready and, now, iPod ready, the VRX756VD is truly a versatile unit. Also new this year is Clarion's revamped 2 zone entertainment feature, which offers more front-seat entertainment options than ever before. It truly is amazing what Clarion can do with this single-DIN multimedia package.



Closed

**Ultra-thin fully motorised in-dash 7-inch monitor**  
Armed with the largest display monitor available for in-dash applications, Clarion is coming to market with a 7-inch, widescreen monitor. The monitor operates automatically and opens and closes at the touch of a button. For optimal viewing, the monitor is also equipped with five adjustable angles. And if the monitor blocks your vehicle's air conditioner controls, Clarion provides added functionality with its Air Conditioner Access mode. This feature will tilt your monitor down momentarily, allowing for easy access to your vehicle's air conditioner controls.

**Extra-large front panel display**  
Close the main LCD screen to automatically activate the VRX756VD's separate display panel, which provides you with all information related to the entertainment



source in use. This separate panel utilises a simple, yet accurate display format, providing you with information such as a CD's "Play Time", or station information when using the radio tuner.

**Cosmetic sophistication**  
For those looking for a seamless cosmetic look, Clarion's VRX756VD is the answer. With its piano-like finish and stunning green illumination, this unit was created as the perfect complement to any vehicle dashboard.

**Front-Panel display**  
Close the main LCD screen to automatically activate the VRX756VD's secondary display, which provides users with CD and DVD playback information, as well as station information when utilizing FM tuner.

**Flip-down CD and DVD loading**  
When Clarion incorporated a flip-down CD and DVD loading mechanism for its VRX756VD, it did so because it looked cool. But one of the advantages of this design is the protection afforded to the loading mechanism, as it is protected from damage-causing by dust. All it takes is a simple press of the front panel's release button. From there, the CD and DVD slot is out of sight, out of mind.

**Touchpad buttons with Touch Panel control**  
With its touch-screen capabilities, Clarion's in-dash 7-inch monitor allows for simple, yet accurate control of all functions, including all visual- and sound-related entertainment sources. Clarion also outfits its monitors with an on-screen numeric keypad so users can easily select specific tracks from a CD or DVD. The touch-screen surface is also treated to resist dust and grime so you'll always be looking at a clear, clean image.

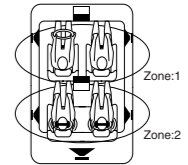


	Front source (Zone 1)	Rear source (Zone 2)
Type 1	DVD (including CD/MP3)	VHS player only*
Type 2	VHS player	DVD (Including CD/MP3) only
Type 3	Radio, CeNET connected device (CD changer, etc.)	DVD or VHS player* (Including CD/MP3)
Type 4	iPod	DVD (Including CD/MP3) only

\*When using iPod Control by serial connection, VHS player usage is not possible.  
\*2 Zone Entertainment function is able to be used only in case of 4ch speaker system.

**Built-in amplifier bypass circuit**  
When building a system with external amplifiers, it doesn't make sense to have the VRX756VD's internal amplifier running. Why? Because an audio signal needs to be in its purest form for superior music reproduction. That's why Clarion incorporates a built-in Amplifier Bypass Circuit inside its VRX756VD, which cuts down on signal travel during music reproduction. So, for intense system buildups, ask for a source unit equipped with an Amplifier Bypass Circuit. Ask for Clarion's VRX756VD.

**2 zone entertainment**  
Clarion has revamped its 2 zone entertainment feature for 2005. Why? Because we believe flexibility is a good



**Function display screens for full system information**  
Clarion's in-dash, 7-inch monitor is the source for all media and function information, allowing the user to access a host of



features with a simple touch of the on-screen menu. The menu is laid out in an easy-to-understand fashion by displaying all actions related to media sources and functions.

thing when it comes to a rear-seat entertainment system. Now, owners of Clarion's VRX756VD get more front-seat listening options while rear-seat passengers watch and listen to a DVD or VHS movie via wireless headphones.

**5.1-Channel Dolby Digital/dts surround**  
There's nothing like listening to your favorite movie or CD in true 5.1-channel surround. That's why Clarion offers its Dolby Digital and dts-ready VRX756VD. With the addition of Clarion's DVH940 5.1-channel processor, one's mobile audio system will reproduce the dynamic sound field of a movie theater, as well as the subtle nuances and wide dynamic ranges of discrete soundtracks contained in a DVD video. This is achieved by combining three channels of front sound (left, right and center), two rear sound audio channels (left and right), and a dedicated low-frequency fielding channel (subwoofer). So, for sound that literally comes to life, there's only one choice ... Clarion's VRX756VD.



Detachable Control Panel with Blinking Anti-theft Indicator

## ► VRX756VD NEW

### DVD MULTIMEDIA STATION WITH TOUCH PANEL CONTROL

- Fully Motorised 7-inch Wide Screen Colour LCD
- 336,960-pixel display
- Screen Resolution of 1440 x 234
- Touch Panel Control with Soil Resistant Finish
- Excellent Off-axis Viewing
- 2 Zone Entertainment
- Single Play DVD Mechanism plays: DVD Video, CD Audio, VCD
- Plays DVD±R/DVD±RW\*
- Plays MP3 Encoded CDs
- Plays CD-R/RW



- 3-Band Parametric EQ
- Magna Bass EX
- 24-Bit D/A Converter
- 212W (53W x 4)
- 2 Zone Control with Dedicated RCA Line Level Output
- 6ch RCA Line Level Output
- Flip Down Detachable Control Panel
- CD Text, CD Titling, Station Titling
- IR Remote Control
- 18FM/6AM Presets

- CeNET Control of : DVD Changer, TV tuner, Optical Dolby Digital / dts 5.1ch Processor, 6-Disc CD Changer
- Fibre Optical Output for Use with Dolby Digital/dts 5.1ch Processor
- 3 Video Inputs (VISUAL / TV / DVD Changer)
- iPod Control (Requires CCA649/iPod Connecting Cable for VRX756VD)
- 1 Video Output
- 2ch Adjustable AUX Input

Ready for iPod

\*iPod is for legal or right holder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc. registered in the U.S. and other countries.

\*There is no guarantee that all units in this catalogue paly CCDD(Copy Control CD), Hybrid SACD(Super Audio CD), CD-R/CD-RW and DVD±R/RW.  
\*The products which do not have the CD TEXT function can not show the on-screen information for iPod.  
\*Only English is available for the on-screen information for iPod function.

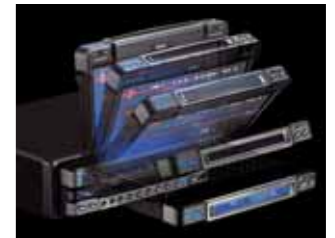
## ► VRX935VD Not available in Australia.

### DVD MULTIMEDIA STATION WITH TOUCH PANEL CONTROL

- Fully Motorized 7-inch Wide Screen Colour LCD
- Touch Panel Control
- Single Play DVD Mechanism plays: DVD Video, CD Audio, Video CD
- Plays MP3 Encoded Discs
- Radio Tuner with 18FM/6AM Presets
- CeNET Control of Optional: Dolby Digital/dts 5.1 ch Processor, TV Tuner, DVD Changer and 6-Disc Audio CD Changer
- Multi-Changer Control, CD Text, CD Titling (Audio Changer Only), Station Titling
- Plays MP3 files on CD-R/RW discs
- 3-Band Parametric EQ (Beat EQ)
- 2 A/V Inputs (1 RCA, 1 CCA389)
- 1 Video Output (RCA)
- Rear Vision Camera Input
- 4-Volt 6 ch RCA Line Level Output
- 24-Bit DACs
- Fiber Optical Output for Use with DVH940 5.1 ch Dolby Digital/dts Decoder/Processor
- Excellent off-axis viewing
- 336,960-pixel display
- Screen Resolution of 1440 x 234
- 212W (53W x 4)
- IR Remote Control
- Partially Detachable Faceplate
- 4 ch Loop-Back Circuit
- CeNET iPod Interface Compatible



Closed



**Full-auto in-dash 7-inch monitor**  
Monitor opening/closing takes place fully automatically at the touch of a button. Thanks to its 5-step angle adjustment to optimise visibility, and an air conditioner access mode that momentarily shifts the monitor horizontally out of the way of climate controls, it boosts operational convenience and safety while driving.



DVD/CD Loading Slot



## Meet the largest in-dash screen in history!

Clarion achieves the world's first wide 8-inch display in an in-dash TV monitor by adopting the Trinity Motion System. It's the sleek in-dash TV monitor that provides unprecedented presence and visibility based on a new way of thinking.

### TB851P PAL / TB853W NTSC

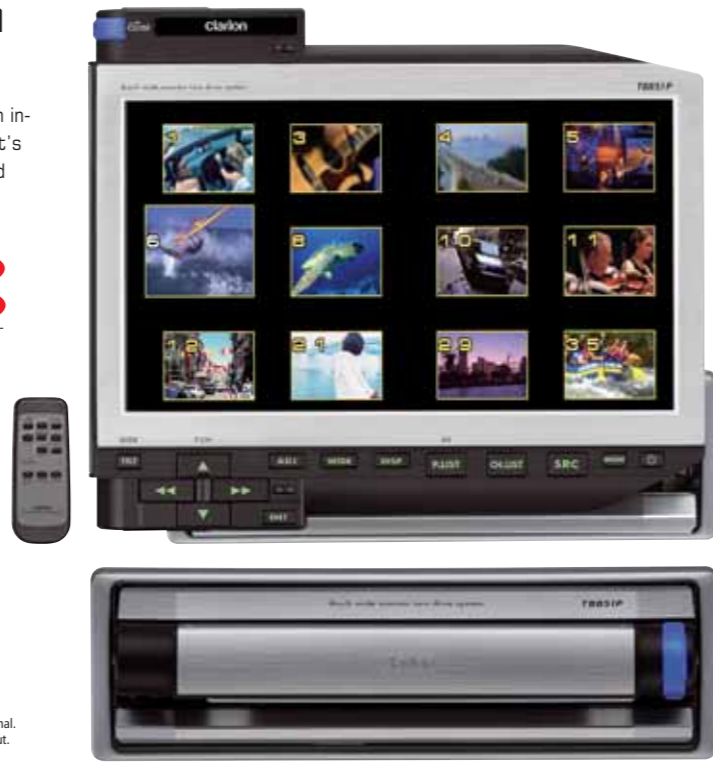


#### 8-INCH WIDE COLOUR LCD TV

8inch MONITOR Full Auto

- Fully Motorised 8-inch Wide Screen Colour LCD
- 5 Step Tilt Angle and 3 Step Back and Forth Slide Adjustment
- Built in FM Modulator (0.2 MHz Step, 10 Points) (ONLY TB851P)
- Built in TV Tuner and 4-Way Diversity Unit
- Audio (L/R) and Video Output (RCA)
- Screen Size Select (Wide/Full Wide/Cinema/Normal)
- RCA AV Input (PAL/NTSC Compatible, Auto)
- 1 Rear View Camera\*2 Video Input
- IR Remote Control

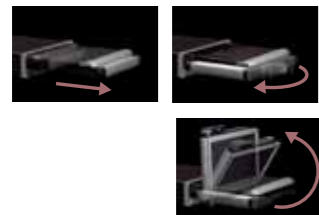
\*The CCA623 (Sold Separately) is required when using this unit as an audio-visual input terminal. CCA623 / RCA transfer cable for TB851P/TB853W: 1ch RCA (L/R/V) input, 1ch RCA video output.



Closed

#### Trinity Motion System

By adopting this drive system, it was possible to achieve a wide 8-inch screen for the first time, surpassing the upper limit of previous in-dash TV monitors. So even in situations where you cannot install a large-screen on-dash monitor unit, or where there is only 1-DIN space available, you can experience superior presence and visibility that this in-dash monitor delivers.



#### Multi12 or 8 screen channel selection function

Programmes being broadcast can be checked on the multi-screen with its grid of



12 or 8 sub-screens, allowing quick selection of the channel you wish to view. Since you don't need to flip through channels to check what's on, you can enjoy a much more efficient way of TV viewing.

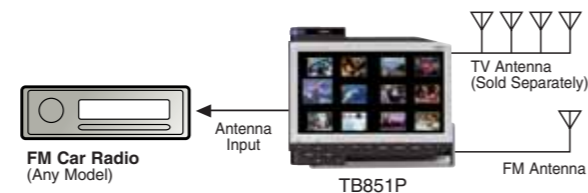
#### Wide 8-inch display

This wide 8-inch display breaks through previous notions of in-dash monitors. Its large image with high resolution and superior visibility offers excellent results for DVD viewing, such as movies and concerts, as well as TV viewing. By connecting the DVD center unit VXZ756 or DVD changer VCZ625, an exciting car entertainment environment can be easily created.

#### Tilt & slide mechanism

Equipped with a tilt & slide mechanism that allows the monitor's angle to be adjusted to offer maximum visibility for the driver or passenger. What's more, it also has a function to extend the monitor horizontally for a certain amount of time to allow access to air conditioner controls.

#### Can Connect with any Electronically Tuned FM Car Radio !!



Closed

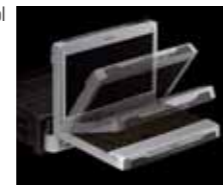
### TB741P PAL / TB742P China PAL / TB743W NTSC

7inch MONITOR Full Auto

- Fully Motorised 7-inch Wide Screen Colour LCD
- 5 Step Tilt Angle and 3 Step Back and Forth Slide Adjustment
- Built in FM Modulator (0.2 MHz Step, 10 Points). Except TB743W
- Built in TV Tuner and 4-Way Diversity Unit
- Audio (L/R) and Video Output (RCA)
- Screen Size Select (Wide/Full Wide/Cinema/Normal)
- RCA AV Input (PAL/NTSC Compatible, Auto)
- 1 Rear View Camera\*2 Video Input\*
- IR Remote Control

\*The CCA389 (Sold Separately) is required when using this unit as an audio-visual input terminal.

In-Dash 7-Inch Monitor with Fully Motorised Mechanism



### TTX754 PAL

TTX7501Z NTSC Not available in Australia. TTX7503Z PAL/SECAM Not available in Australia.

#### CeNET TV TUNER



- CeNET Controlled
- Diversity Tuner System
- AV Input with Optional CCA389 Cable
- 1 Camera Input
- 2 Video Outputs

\*The CCA389 (Sold Separately) is required when using this unit as an audio-visual input terminal.

### VXZ756 NEW

#### DVD/CD/MP3/WMA RECEIVER / CeNET CONTROL

- Single Play DVD Mechanism plays: DVD Video, CD Audio, VCD
- Plays DVD±R/DVD±RW\*
- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- Decodes: Dolby Digital, dts, dts Audio CD
- 2-Band Parametric EQ (Z-Enhancer Plus)
- Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: Through/50Hz/80Hz/120Hz
- Magna Bass EX
- Burr-Brown 24-Bit D/A Converter
- 96kHz Sampling Frequency capable
- 208W (52W x 4)
- 6ch Gold Plated RCA Line Level Output
- Rotary Volume Control
- Screen Saver with User-Programmable Message Information



- Adjustable Display Contrast
- CD Text, CD Titling, Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel
- CeNET Control of : TV tuner, 6-Disc CD Changer

- 2 Video Outputs
- 2ch Adjustable AUX Input



DVD loading slot

#### Built-in 5.1-channel decoder

Needless to say, 5.1-channel surround sound is a must for home theatre system today. Most of the DVD software is now encoded with Dolby Digital or dts format, which provides incredible surround sound effect. VXZ756 features built-in 5.1-channel decoder, which works with internal 4-channel amplifier. You simply need to hook up with 4 speakers – front L/R and rear L/R, centre speaker SRK602 and powered subwoofer, then your vehicle immediately turn into a mobile theatre.

and high range frequencies from the output signal to the subwoofer. You can choose from 50 Hz, 80 Hz, 120 Hz and through depending on the subwoofer.

#### Subwoofer output control

You can easily adjust the subwoofer output level on the main unit. This function gives consideration to usability when constructing an authentic car theatre system.

#### Two video output systems

Equipped with two video output systems that transmit video to both front and rear monitors. By connecting the unit, for example, to a monitor with RCA/video input and Clarion's rear monitor, you can easily provide entertainment to front-seat and rear-seat passengers.

#### Burr-Brown 24-bit D/A converter

Digital analogue conversion is the heart of sound processing in the digital audio products. VXZ756 adopts 24-bit DAC made by Burr-Brown,

which is well known as highly qualified device. Its high accurate D/A conversion enables superior dynamics and great resolution on the sound reproduction.

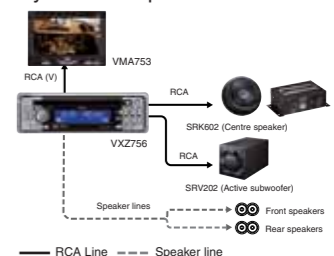
#### MOS-FET power amplifier

There's only one way for Clarion's VXZ756 to deliver 52W x 4 of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

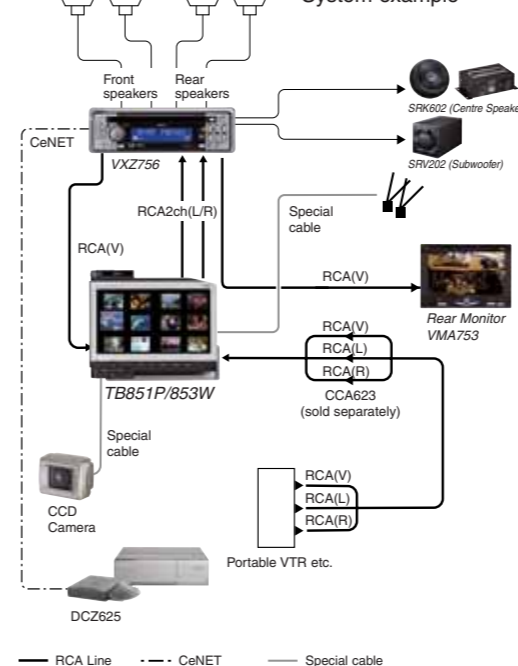
#### iPod control

All CeNET products can be connected to iPod units thanks to Clarion original interface (model EA1251, sold separately).

#### System example



#### System example



\*There is no guarantee that all units in this catalogue play CCCD(Copy Control CD), Hybrid SACD(Super Audio CD), CD-R/CD-RW and DVD±R/RW.  
\*The products which do not have the CD TEXT function can not show the on-screen information for iPod.  
\*Only English is available for the on-screen information for iPod function.





**DB346MPV** Not available in Australia. **NEW**  
**DVD/CD/MP3/VCD RECEIVER**

- Plays MP3 Encoded CDs
- Plays CD-R & CD-RW
- Z-Enhancer
- Magna Bass EX
- 4ch RCA Line Level Output
- IR Remote Control
- 200W (50W x 4)
- 18FM/6AM Presets
- Rotary Volume Control
- Blue Negative LCD with Blue Buttons
- 13-Segment 8-Digit LCD
- Screen Saver
- Aluminium Faceplate
- 1 Video Output (RCA)



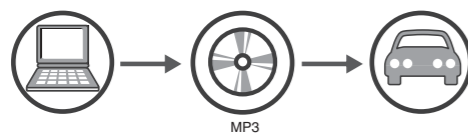
**VCZ625**  
**6-DISC DVD/CD/VCD/MP3 CeNET CHANGER**



- CeNET mode or Stand-Alone Operation
- 6-Disc DVD Mechanism Plays: DVD Video, CD Audio, Video CD, MP3 Encoded CD-R/RW
- 24-Bit DAC
- CD Text (Audio CD)
- Fiber Optic Output for use with DVH940 5.1ch Dolby Digital/dts Decoder/Processor
- 2ch RCA Line Level Outputs for Stand Alone Use
- Automatic 2ch Mix Down of 5.1ch Dolby Digital, dts
- 2ch RCA Composite Video Outputs
- Remote IR Eye
- Includes 16-inch CeNet Cable and 16-inch AV Cable (for Stand-Alone Use)
- IR Remote Control



**DVD video plus music CD and MP3**  
 The compact VCZ625 changes the rules for disc changers. It offers big performance-playing back DVD video, CD audio, CD-R and RW, and even MP3 discs - in a package small enough to use almost anywhere. Add the VCZ625 to your system for continuous playback with the rich, full immediacy of theatre and live performances. You can even play back your own mixes of MP3 files you've burned to disc. And to move up to the full 5.1-channel theatre sound system experience, just add Clarion's DVH940 5.1-channel surround decoder (sold separately).



**VS738**  
**DVD/CD/VCD/MP3 PLAYER**



- 1-DIN In Dash DVD Player
- Plays DVD Video, CD Audio, CD Video, MP3 Encoded CD-R/RW
- CD-R/CD-RW Playback
- Flip-Down Detachable Faceplate
- Adjustable Audio Gain Controller
- Vacuum Florescent Display with Illumination Control
- 24-Bit D/A Converter
- AV Input/Output
- Dolby Digital Optical output for use with DVH940 5.1ch Surround Processor
- IR Remote Control
- ID3 Tag for MP3 Titles



**DCZ625V** Not available in Australia.  
**CeNET 6-DISC CD/VCD CHANGER**



- Plays CD-R/RW Discs, VCD
- 8-Times Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- Optical Output
- CD Text and CD Titling
- CeNET
- Karaoke Remote (sold separately)
- PAL/NTSC Selectable
- 1 Video Output



**DVH940**  
**DOLBY DIGITAL/dts CeNET PROCESSOR**



- Stand-Alone/CeNET mode Hide Away Processor
- Decodes: Dolby Digital, dts, Dolby Pro Logic II
- 6 Pre-Programmed Digital Sound Field Memories
- Individual Adjustable Speaker Gains (LF, RF, C, LR, RR, SW)
- Independent 3 Band Parametric EQ for Front, Centre, Rear Channels
- 50/80/120Hz Selectable High Pass Crossover for Front, Centre, and Rear Channels
- 50/80/120Hz Selectable Low Pass Crossover for Subwoofer
- Speaker Time Delay Settings
- 24-Bit D/A Converter
- 2 ch RCA Line Level Analog Input
- CeNET Analog Line Level Input
- 2 Digital Fibre Optic Inputs
- Optional DVC920 Controller allows use with any main unit

**Excellent Solution for 5.1ch Surround Sound Systems**



**SRK5**  
**1/2 DIN CENTRE CHANNEL SPEAKER WITH POWER AMPLIFIER**

- 1/2 DIN Fixed Application
- Fits in all DIN and 1/2 Installation Kits
- 50W Amplifier
- 20W RMS
- RCA Audio Input
- 5 - 3/4-inch Full Range 4 Ohm Speakers in a Sealed Enclosure with 2 - 1-inch Rear-Mounted Midbass Reinforcement Speakers Ported to the Front of the Enclosure
- Excellent Solution for 5.1ch Surround Systems



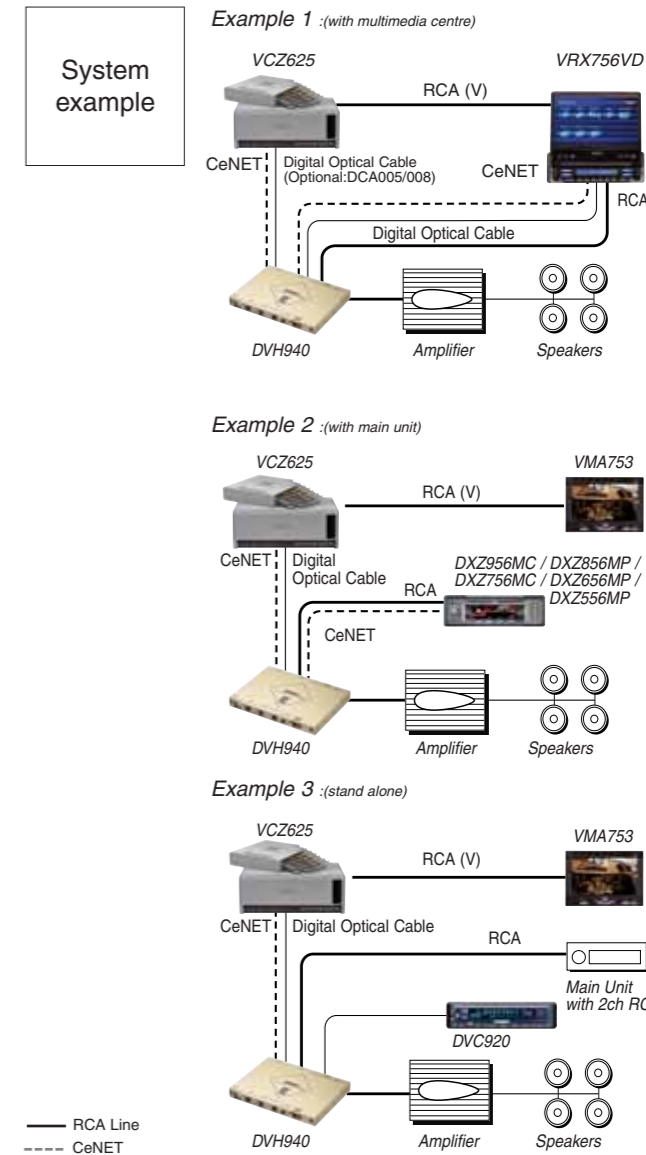
**SRK602**  
**CENTRE SPEAKER SYSTEM WITH POWER AMPLIFIER**

- 6cm 2Way Coaxial Speaker with 50W High Power Amplifier
- Thin and Small Size for Easy Installation
- Efficiency: 85dB/W/m
- Frequency Response: 140-40,000Hz



**DVC920**  
**DOLBY DIGITAL/dts CeNET PROCESSOR CONTROLLER**

- Connects to DVH940 Processor
- Controls all Functions of DVH940
- Contrast Adjust
- High Visibility Multi-Colour Display
- Screen Saver Mode





Picture-in-Picture (PIP) & split screen

A rear-seat entertainment system is the perfect remedy for those long road trips. Offering the latest LCD technology, Clarion's rear-seat video line offers several key features, including built-in DVD players, Split Screen and Picture-In-Picture viewing, external Game Ports, widescreen viewing, and more. So take the show on the road with Clarion's rear-seat entertainment line.

## Give your rear-seat passengers first-class entertainment



### ▶ OHMD756VD 7-INCH OVERHEAD FLIP-DOWN LCD MONITOR WITH DVD PLAYER

- Plays CD/CD-R/CD-RW/DVD±R/DVD±RW\*/ MP3
- Easy-Fit Universal Metal Mounting Bracket
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- 2 A/V Inputs
- 1 Video Output
- Convenient External A/V Game Port (Included)
- Lightweight Plastic Housing
- IR Audio Output for Wireless Headphones (Optional WH143H)
- Front-Panel Accessible FM Modulator and Picture Adjustment Controls
- FM Modulator Control Cable (Included for Optional FM200)
- Remote Control
- Built-In Dome Lights



### ▶ OHM153 15.3-INCH OVERHEAD FLIP-DOWN LCD MONITOR

- Easy-Fit Universal Metal Mounting Bracket
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- Picture in Picture (PIP)
- Adjustable Split Screen for Dual IR Audio and Video Viewing
- 2 A/V Inputs
- 1 Video Output
- Convenient External A/V Game Port (Included)
- Lightweight Plastic Housing
- Dual IR Audio Output for Wireless Headphones (2 Pair of WH253H included)
- Front-Panel Picture Adjustment Controls
- FM Modulator Control Cable (Included for Optional FM200)
- Remote Control
- Built-in Wireless Audio Transmitter
- Built-In Dome Lights



### ▶ OHM102 10.2-INCH OVERHEAD FLIP-DOWN LCD MONITOR

- Easy-Fit Universal Metal Mounting Bracket
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- Picture in Picture (PIP)
- Adjustable Split Screen for Dual IR Audio and Video Viewing
- 2 A/V Inputs
- 1 Video Output
- Convenient External A/V Game Port (Included)
- Lightweight Plastic Housing
- Dual IR Audio Output for Wireless Headphones (2 Pair of WH253H included)
- Front-Panel Picture Adjustment Controls
- FM Modulator Control Cable (Included for Optional FM200)
- Remote Control
- Built-in Wireless Audio Transmitter
- Built-In Dome Lights

## High-luminosity LCD monitors for an extremely realistic display of all visual sources



### ▶ VMA753 7-INCH WIDE-SCREEN HEADREST LCD MONITOR

- Slim, Easy-Fit Universal Mounting Bracket (Included)
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- 2 A/V Inputs
- Convenient External A/V Game Port (Included)
- Dual IR Output for Headphones (Optional WH143H or WH253H)
- Built-In IR Receiver
- Front-Panel Controls for Power, Source and Picture



### ▶ VMA553 5.8-INCH WIDE-SCREEN HEADREST LCD MONITOR

- Slim, Easy-Fit Universal Mounting Bracket (Included)
- TFT Active Matrix Display With 16:9/4:3 Format
- On-Screen Display (OSD)
- 2 A/V Inputs
- Convenient External A/V Game Port (Included)
- Dual IR Output for Headphones (Optional WH143H or WH253H)
- Built-In IR Receiver
- Front-Panel Controls for Power, Source and Picture

### MSS430 MULTI-ZONE AUDIO/VIDEO SWITCHER

- 3 Control Station and Mounting Bezel included
- Audio Level Gain Control
- Multi-Source Switching of 4 A/V Sources with up to 3 Different Zones (Monitors)
- 4 RCA A/V Inputs
- 3 RCA A/V Outputs
- Rear View Camera Reverse Trigger Input

### WH143H/WH253H WIRELESS HEADPHONES

- WH143H: IR Wireless Single Headphone
- WH253H: Dual Channel IR Wireless Single Headphone

### VA700 VIDEO DISTRIBUTION AMPLIFIER

- 1 Gain Control
- 1 RCA Video Input
- 7 Buffered 75 Ohm RCA Video Outputs
- Stable Video Signal for up to 7 LCD Monitors

### FM200 FM MODULATOR

- 2 ch RCA Audio Input
- On/Off Switch
- Volume Level Control
- FM Reception Frequency: 88.7MHz/89.1MHz

### CC1030E

- COMPACT COLOUR CCD CAMERA (MIRROR IMAGE)

### CAA188 REAR VISION CAMERA POWER SUPPLY FOR CC1030E

- CCA389 8P DIN RCA A/V ADAPTER FOR TTT754/TTT7501z/TTX7503z



\*There is no guarantee that all units in this catalogue paly CCCD(Copy Control CD), Hybrid SACD(Super Audio CD), CD-R/CD-RW and DVD±R/RW.

# Clarion Main Units for 2005...

## There is a clear reason for excellent sound that draws you in before you know it.

Leading-edge audio technology and a commitment to usability and safety are condensed into 1-DIN size.

High quality sound satisfies the driver's sensitivities and sense of control. The functionality and performance which hints of a new age, redefines the style of musical enjoyment within the car and offers new excitement. The DXZ956MC and DXZ856MP are equipped with the epoch-making Optimedia control which reverses the common notion of interfaces, and Music Catcher to store, play or delete tunes at will, and enjoy your favourites with CD-changer-like simplicity. The 2005 line-up of Clarion main units achieves a new evolution, and offers a new generation of drivers the future-oriented experience they're looking for.

Ready for  
**iPod**

\*iPod is for legal or right holder, authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

### iPod interface

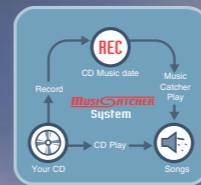
iPod lets you carry around up to 10,000 songs in your pocket (based on HDD



capacity of 40GB, tunes 4 min. in length, AAC encoded at 128kbps). Clarion offers iPod Control so you can enjoy music stored on the iPod over your car's powerful audio system by simply plugging your iPod into the adapter. iPod Control enables simple operation of all of iPod's functions from the head unit control panel. And since the iPod's battery is charged while connected to the head unit, you can unplug and enjoy your iPod right after you've reached your destination.

### Music Catcher system

Clarion's leading-edge Music Catcher System allows you to freely record, play and erase up to six CDs worth of music data files. By using the Music Catcher System, no longer is there a need to carry around that cumbersome CD storage case, or risk damage to your favorite

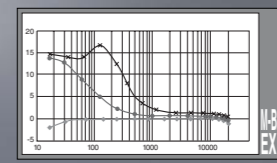


CD. This system also eliminates the need for space-taking CD changers.

DXZ956MC / DXZ756MC / DB456MC

### Magna Bass EX for dynamic bass resonance

Whether your music is playing at a low or high volume, achieving well-balanced bass inside the car has never been easier. Allowing you to boost the ultra-low fre-

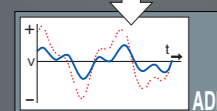
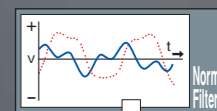


quency range of your sound system with a center frequency of around 50Hz, this feature automatically compensates for the increased bass to eliminate any unwanted noise.

### ADF (Anti-Distortion Filter)

From road noise to sound hindering interior cabin designs, the environment inside a vehicle is not an ideal place for optimal

Normal Filter  
Sound enhancement but original wave form feature was changed



ADF  
Sound enhancement with keeping original wave form feature

sound reproduction. Even the material used to wrap your vehicle's seats can hamper the travel of sound. Clarion's Anti-Distortion Filter corrects these problems, preventing high- and low-range frequencies from becoming inaudible. This is done without any additional frequency boost to compensate for the inherent problems, which can result in muffled, dull sounds generated by mutual phase distortion. This allows the system to focus on emphasizing the natural frequency characteristics of the sound source. The anti-distortion filter also restores the sound produced from over-used CDs, providing a new sense of clarity.

## Great Looks and Sound ...



### Optimedia display

Combining impeccable styling with touch-screen capability, Clarion's innovative graphic user interface (GUI) provides superior functionality in an environment where ease-of-use is of utmost importance. Intuitively linking the movement of the user's fingertips to the screen, Clarion's advanced Optimedia display provides precise control of display functions and features.



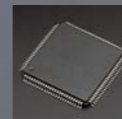
DXZ956MC



DXZ856MP

### AC-Processor IV

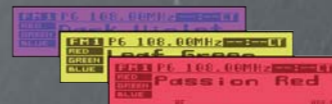
Blending vibrant, dynamic sound with spatial analysis technology, Clarion unveils its latest sound processing technology: the AC Processor IV.



- Crossover
- Time Alignment control
- ADF (Anti-Distortion Filter)
- Dolby Pro Logic II
- VSE (Virtual Space Enhancer)
- Parametric EQ

### Multicolour displays to vividly choreograph your dash

Toggle through different colour patterns to match your main unit's display panel or illuminated display characters with the interior colour scheme of your vehicle. This feature also matches the main unit's illuminated function buttons to the desired colour for the ultimate customizable look.



## ... With a Touch of Intelligence



### 212W MOS-FET power amplifier

Uses a MOS-FET power supply for superior linearity and power handling capabilities. Its separated L and R channel power/ground lines drive the Power IC separately. In addition to accelerated switching, it minimizes power loss for ample low-load drive performance.



And in high-load situations, like when the volume is cranked up, it provides effective heat exchange for high power amplification in a small unit.

### Subwoofer control

For added control, Clarion allows you to manage your sound system's subwoofer output level directly from the source unit.

### 24-Bit D/A converter

A key component in the transfer of digital data from a CD into analog sound is Clarion's 24-Bit D/A Converter. Since the digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment, Clarion's embedded 24-Bit D/A Converter recreates the natural nuances and expressions lost during the sound reproduction process.

### Stainless steel faceplate

Stainless steel faceplate / Aluminium faceplate Stainless steel cosmetics promise the highest quality appearance and Aluminium cosmetics propose upper quality appearance. "The metal cosmetic concept." it is the proposal from clarion to you.

### Message information

Personalize your main unit's display screen by adding your own text message. For added effect, this feature also allows your message to scroll across the screen. Use this feature as a bulletin board for your vehicle, or utilize it as a memo pad.

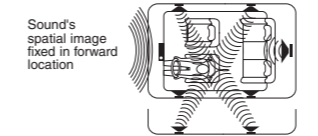
# NEW ERA SOUND... NEW ERA INNOVATION

## "AC-Processor IV" for next-generation digital sound processing

### Digital Crossover

Separates the sound spectrum into different bands so you can minimize peaking and phase cancellation, which can result in muddy sound when using a 2-way or 3-way speaker system. crossover circuitry also optimizes each output range, resulting in more natural and smooth transitions between ranges. And since it's built-in, it requires no additional equipment or expertise. The cut-off frequency, filter, slope and phase can be adjusted for each band, enabling precise sound tuning. You can also set a time alignment value for each speaker for optimal sound matched to the vehicle's acoustics.

### Digital Time Alignment



In order to obtain a good sound positioning, it is ideal to locate each speaker to the listener in equidistant. However, it is almost impossible to realise it for car audio installation.

### Digital Time Alignment

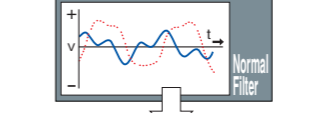
Digital Time Alignment works to move away the speakers in virtual, so that the desirable listening field can be easily realised. The range can be adjusted from 0 to 501.4cm in 2.3cm steps.

### Anti Distortion Filter

ADF (Anti Distortion Filter) is a newly developed equalising system, which is designed to match peak of frequency curve to the original one. Conventional tone control or loudness is effective for emphasising bass/treble sound, however, due to phase discordance, it sometimes damages the original sound. Thanks to the Clarion's latest sound technology, ADF is able to reinforce bass/treble sound without causing such distortion, so that the original sound can be lively reproduced after equalization. Three preset patterns and one user memory is provided.

### Normal Filter

Sound enhancement but original wave form feature was changed



ADF Sound enhancement with keeping original wave form feature

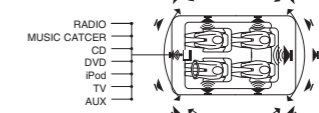
### Virtual Space Enhancer

Lets you digitally correct irregular reflection, polarization and other acoustic problems that may result from your vehicle's interior design. In addition, simply choose from these three available options: SEDAN, WAGON and MINI-VAN

### Dolby Pro Logic II

Lets you enjoy 5.1-channel surround sound with any 2-channel sources, including DVD, CD, MP3, WMA and radio

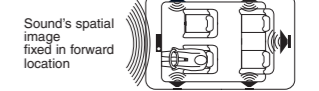
### 2ch Source



tuner. Virtual 5.1-channel surround using 4 speakers is also available.

### 3-Band Parametric EQ

Lets you adjust the equalisation of each frequency band independently for front and rear speakers.



### Multi mode (when selecting SW)

Speaker output	HI L/R + MID L/R + SW L/R
CROSSEVERS	<b>HIGH</b> HPF (f = 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20kHz) initial value 2kHz SLOPE = -6, -12, -18dB/oct initial value -12dB/oct With switchover (PHASE NOR/REV)
	<b>MID</b> LPF (f = 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH) initial value 2kHz SLOPE = -6, -12, -18dB/oct initial value -12dB/oct With switchover (PHASE NOR/REV)
	<b>SUB</b> LPF (f = 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH) initial value THROUGH SLOPE = -6, -12, -18dB/oct initial value -12dB/oct With switchover (PHASE NOR/REV)

### Multi mode (when selecting rear)

Speaker output	FRONT-HIGH L/R + FRONT-LOW L/R + REAR L/R
CROSSEVERS	<b>HIGH</b> HPF (f = 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20kHz) initial value 2kHz SLOPE = -6, -12, -18dB/oct initial value -12dB/oct With switchover (PHASE NOR/REV)
	<b>MID</b> LPF (f = 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH) initial value 2kHz SLOPE = -6, -12, -18dB/oct initial value -12dB/oct With switchover (PHASE NOR/REV)
	<b>REAR</b> LPF (f = 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH) initial value THROUGH SLOPE = -6, -12, -18dB/oct initial value -12dB/oct With switchover (PHASE NOR/REV)

## DXZ956MC NEW

### CD/MP3/WMA RECEIVER / CeNET & TOUCH PANEL CONTROL / MUSIC CATCHER

- 38,400-pixel display
- Screen Resolution of 400 x 96
- Touch Panel Control with Soil Resistant Finish
- Music Catcher Digital Recorder Built-in
- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- AC Processor IV with Anti-Distortion Filter
- Dolby Pro Logic II
- Built-in DSP for Time Alignment, Seat Position, Virtual Space Enhancer
- 3-Band Parametric EQ
- Built-in adjustable High Pass Crossovers for Front/Rear/Centre Channels: Through/50Hz/80Hz/120Hz
- Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz

- 24-Bit D/A Converter
- 212W (53W x 4)
- MOS-FET
- Shock Proof Memory (45sec.)
- 4-Volt/6ch Gold Plated RCA Line Level Output
- Built-in Amplifier Bypass Circuit (=AMP Canceller)
- Stainless Faceplate
- Optimedia Display (Touch Panel Control)
- Multicolour Full Dot LCD
- Auto Dimmer with sensor
- Rotary Volume Control
- Screen Saver with User-Programmable Message Information
- Adjustable Display Contrast
- Slope Console
- CD Text, CD Titling, Station Titling

- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel with Blinking Anti-Theft Indicator
- CODEMATIC
- CeNET Control of : DVD Changer, TV tuner, 6-Disc CD Changer
- 2ch Adjustable AUX Input
- CeNET iPod Interface Compatible



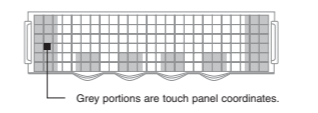
CD Loading Slot (Slope Console)

### Optimedia Display

Offering a new onscreen layout, remastered motion graphics, touch-panel control, and, best of all, full colour, Clarion takes its Optimedia technology to a whole new level. Harnessing this evolution is Clarion's DXZ956MC. With its spacious 4.2-inch TFT display, users will see more



onscreen options when scrolling through sound and adjustment menus. The result is faster access to all features and functions. The evolution doesn't stop there, however. Vastly improved are the motion graphics and screen savers, but seeing is 4.2-inch believing. Taking this cosmetic styling

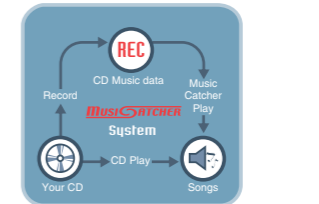


a step further, Clarion provides users with the ability to change the display's background color. To put it simply, this is high-tech innovation you can see and touch ... Optimedia.

### Music Catcher

Representing the first Optimedia main unit to incorporate Clarion's Music Catcher one-touch CD recording technology, Clarion's DXZ956MC is truly what innovation is all about. All it takes is a simple press of the onscreen "Record" button to get 6 CDs worth of music storage. To access your Music Catcher collection for skip-free playback, simply press the "Function" button. It's that easy. For additional Music Catcher options, press the

"Mode" button on the faceplate. From there, you'll get full touch-screen control of play and editing functions. This is truly high-tech innovation made simple.



### Separate Power IC x MOS-FET Structure Image

Around the MOS-FET's centrally located S-GND, the power and GND are both separated into L-Ch and R-Ch, and the Power IC is driven separately.

and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

### MOS-FET power amplifier

There's only one way for Clarion's DXZ956MC to deliver 53 W x 4 of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller



**iPod Interface**  
Clarion lets you enjoy iPod on the road with an easy plug-in interface. Just connect your iPod for seamless enjoyment of your musical collection.



\*iPod is for legal or right holder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

\*The products which do not have the CD TEXT function can not show the on-screen information for iPod.  
\*Only English is available for the on-screen information for iPod function.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

# REDEFINING THE TERM DIGITALLY REMASTERED: OPTIMEDIA

Offering 24-bit D/A converters, a high-powered MOS-FET amplifier, Clarion's Optimedia display technology, 4.2-inch Multicolour TFT display, and an attractive stainless steel faceplate, the DXZ856MP really does look as good as it sounds. Loaded with sound-enhancement features, such as Clarion's ADF audio enhancer and 2-band parametric EQ, the DXZ856MP is a unit puts you in control of your sound. This is a main unit that truly does it all.



## ▶ DXZ856MP NEW CD/MP3/WMA RECEIVER / CeNET & TOUCH PANEL CONTROL

- 38,400-pixel display
- Screen Resolution of 400 x 96
- Touch Panel Control with Soil Resistant Finish
- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- Anti-Distortion Filter
- 2-Band Parametric EQ
- Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz
- Magna Bass EX
- 24-Bit D/A Converter
- 212W (53W x 4)
- MOS-FET
- 4-Volt/6ch RCA Line Level Output
- Built-in Amplifier Bypass Circuit (=AMP Canceller)
- Stainless Faceplate
- Optimedia Display (Touch Panel Control)
- Multicolour Full Dot LCD
- Auto Dimmer with Sensor
- Rotary Volume Control



- Screen Saver with User-Programmable Message Information
- Adjustable Display Contrast
- Slope Console
- CD Text, CD Titling, Station Titling
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel with Blinking Anti-Theft Indicator
- CODEMATIC
- CeNET Control of : DVD Changer, TV tuner, 6-

- Disc CD Changer
- 2ch Adjustable AUX Input
- CeNET iPod Interface Compatible

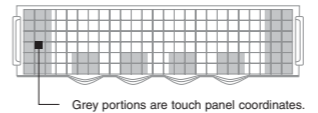


CD Loading Slot (Slope Console)



**Optimedia control**  
Offering a new onscreen layout, remastered motion graphics, touch-panel control, and, best of all, multicolour, Clarion takes its Optimedia technology to a whole new level. Harnessing this evolution is Clarion's DXZ856MP. With its spacious 4.2-inch TFT display, users will see more onscreen options when scrolling through sound and adjustment menus. The result is faster access to all features and functions. The evolution doesn't stop there, however. Vastly improved are the motion graphics

and screen savers, but seeing is truly believing. Taking this cosmetic styling a step further, Clarion provides users with the ability to change the display's background colour. To put it simply, this is high-tech innovation you can see and touch ... Optimedia.



Grey portions are touch panel coordinates.

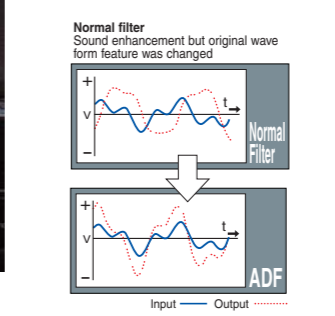
**iPod interface**  
An iPod with a 40GB HDD lets you carry around up to 10,000 songs in your pocket. Plug your iPod into the adapter and you're ready to enjoy music stored on the iPod with powerful car audio system performance. iPod's battery is charged while connected to the head unit, so your iPod can be enjoyed right after you reach your destination.



Ready for iPod

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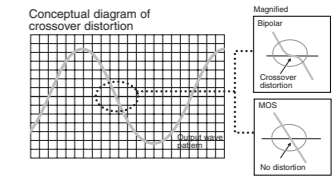
**ADF (Anti Distortion Filter)**  
Don't let sound-hindering factors such as road noise and rushing wind get in the way of great sound. Because the vehicle tends to make it difficult to hear high and low frequencies, Clarion outfits its high-end source units with an anti-distortion filter. This filter eliminates mutual phase distortion that can occur, and emphasises the



natural frequency characteristics of the sound. The result is crystal clear, high-quality sound reproduction.

**LPF (Low-Pass Filter)**  
For optimal subwoofer performance, Clarion equips its DXZ856MP with a built-in Low-Pass Filter. Offering users selectable frequencies at 50Hz, 80Hz, and 120Hz, Clarion's Low-Pass Filter stops mid- and high-range frequencies from entering the subwoofer output. This allows users to really dial in the bass so it hits harder, tighter and cleaner.

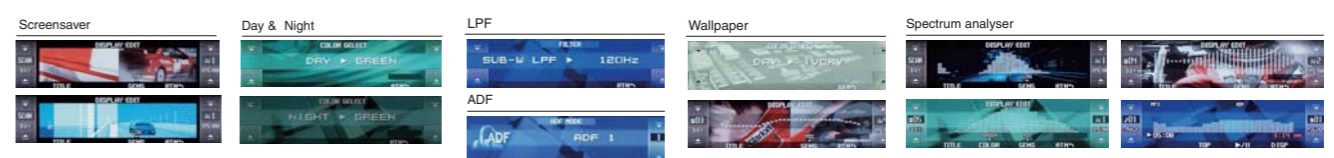
**MOS-FET power amplifier**  
There's only one way for Clarion's DXZ856MP to deliver 53W x 4 of unyielding power output and superior linearity: MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies,



this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

**Stainless steel faceplate**  
When it came to the cosmetic design of the DXZ856MP, Clarion's product engineers wanted something that could visually speak to the unit's high-tech innovation. We found what we were looking for. Introducing Clarion's new stainless steel faceplates. It's progressive styling for progressive thinking.

**24-Bit D/A converter**  
A key component in the transfer of digital data from a CD into analog sound is Clarion's 24-Bit D/A Converter. Because the digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment, Clarion's embedded 24-Bit D/A Converter recreates the natural nuances and expressions lost during the sound reproduction process.



\*The products which do not have the CD TEXT function can not show the on-screen information for iPod.  
\*Only English is available for the on-screen information for iPod function.

# MUSIC CATCHER EXPANDED

## DXZ756MC NEW

**CD/MP3/WMA RECEIVER /  
CeNET CONTROL / MUSIC CATCHER**

- Music Catcher Digital Recorder Built-in
- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- Anti-Distortion Filter
- 2-Band Parametric EQ
- Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz
- Magna Bass EX
- 212W (53W x 4)
- MOS-FET
- Shock Proof Memory (45sec.)



- 6ch RCA Line Level Output
- Built-in Amplifier Bypass Circuit (=AMP Canceller)
- Aluminium Faceplate
- Full Dot LCD
- Smart Control Key
- 728 Variable Colour LCD and 728 Variable Colour Buttons (12 presets and 3 users)
- Retractable Rotary Volume Control
- Screen Saver with User-Programmable Message Information
- Adjustable Display Contrast
- Slope Console
- CD Text, CD Titling, Station Titling
- IR Remote Control
- 18FM/GAM Presets
- Detachable Control Panel with Blinking

- Anti-Theft Indicator
- CeNET Control of : DVD Changer, TV tuner, 6-Disc CD Changer
- 2ch Adjustable AUX Input
- CeNET iPod Interface Compatible

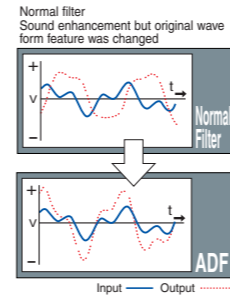


CD Loading Slot (Slope Console)



### ADF (Anti-Distortion Filter)

Don't let sound-hindering factors such as road noise and rushing wind get in the way of great sound. Because the vehicle tends to make it difficult to hear high and low frequencies, Clarion outfits its high-end source units with an anti-distortion filter. This filter eliminates mutual phase distortion that can occur, and emphasizes the natural frequency characteristics of the sound. This result is crystal clear.

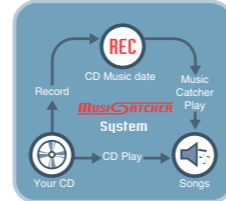


Anti-Distortion Filter (ADF)  
Sound enhancement with keeping original wave form feature

high-quality sound reproduction. Anti-Distortion Filter also restores the sound produced from overused CDs, providing a new sense of clarity.

### Music Catcher system

Just load a CD into Clarion's DXZ756MC, hit the "Record" button, and you'll never have to bring that CD with you again ...

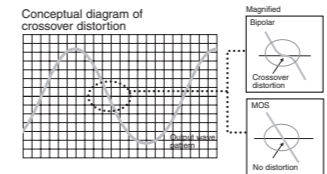


Music Catcher. This one-touch CD recording technology allows the DXZ756MC to store up to 6 CDs worth of music. Best of all, there's no need for complicated connections, or removable hard drives. For playback, just hit the function button until

"Music Catcher" appears on the screen. Now you're ready for hours of skip-free music playback ... no matter how extreme you like to drive ... guaranteed!

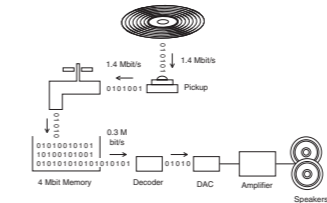
### 53W MOS-FET power amplifier

Uses a MOS-FET power supply for superior linearity and power handling capabilities. In addition to accelerated switching, it minimizes power loss for ample low-load drive performance. And in high-load situations, like when the volume is cranked up, it provides effective heat exchange for high power amplification in a small unit.



### Shock proof memory

The DXZ756MC features a 45-second memory that temporarily catches the playback data so that even if the road is bumpy and the laser pickup goes off track, there won't be any interruptions in the playback sound.



### Multicolour display

While addressing one's sense of style, Clarion's variable-colour display enhances visual recognition while operating the unit in the rigorous in-car environment. Choose from 728 different colours to match your display or display characters to your vehicle's interior colour scheme. Adding to this seamless look, this feature also changes the colour of the unit's illuminated function buttons.

### Multicolour Display



**Retractable rotary volume control**  
Much more ergonomic and intuitive than buttons, this control lets you adjust the volume with analog type flexibility. It's just another way

Clarion helps you keep your eyes on the road while keeping your ears entertained.



**Smart control key**  
Whether it's a regular CD or a hefty collection of MP3 songs, this function lets you quickly and easily access the

exact song you want to hear regardless of the recorded media

### Aluminium faceplate

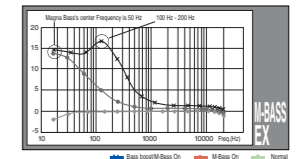
The aluminium faceplate gives this head unit a sharp look, matching well with a variety of automobile instrument panels.

### Message information

Personalize your source unit's display screen by adding your own text message. For added effect, this feature also allows your message to scroll across the screen. Use this feature as a bulletin board for your vehicle, or utilize it as a memo pad.

### Magna Bass EX

Compared to conventional loudness features, which boost the low frequency range of 100Hz, Magna Bass boosts the ultra-low frequency range with a centre frequency of around 50Hz. For additional bass response, Clarion has added Magna



Bass EX, which goes beyond Magna Bass by boosting the ultra-low frequency range centered around 50 Hz. This feature also reduces noise thanks to its automatic compensation function, which produces well-balanced, dynamic bass sound no matter how loud you play your music.



Detachable Control Panel with Blinking Anti-Theft Indicator

### iPod interface

An iPod with a 40GB HDD lets you carry around up to 10,000 songs in your pocket. With iPod Control, you can enjoy music stored on your iPod over your car's powerful audio system by simply plugging your iPod into the adapter. It also charges the iPod while connected, so you can enjoy your iPod right after you reach your destination.

Ready for iPod



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Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

\*The products which do not have the CD TEXT function can not show the on-screen information for iPod.  
\*Only English is available for the on-screen information for iPod function.



**DX2656MP NEW**  
CD/MP3/WMA RECEIVER /  
CeNET CONTROL

- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- 2-Band Parametric EQ (Z-Enhancer Plus)
- Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz
- Magna Bass EX
- 212W (53W x 4)
- MOS-FET
- 6ch RCA Line Level Output
- Built-in Amplifier Bypass Circuit (=AMP Canceller)



- Aluminium Faceplate
- 728 Variable Colour LCD and 728 Variable Colour Buttons (12 presets and 3 users)
- Full Dot LCD
- Retractable Rotary Volume Control
- Smart Control Key
- Screen Saver with User-Programmable Message Information
- Adjustable Display Contrast
- Slope Control
- CD Text, CD Titling, Station Titling
- IR Remote Control

- 18FM/GAM Presets
- Detachable Control Panel with Blinking Anti-Theft Indicator
- CeNET Control of : DVD Changer, TV tuner, 6-Disc CD Changer
- 2ch Adjustable AUX Input
- CeNET iPod Interface Compatible



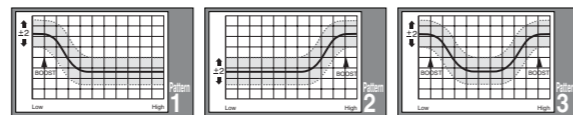
CD Loading Slot

**Multicolour display**  
Clarion offers four source units in 2005 that allow users to adjust the RGB levels to cosmetically harmonise the look of their radio to the vehicle's dashboard and gauge cluster illumination. Users can choose from 728 colour possibilities.



**53W MOS-FET power amplifier**  
There's only one way for Clarion's DX2656MP to deliver 53W x 4 channels of unyielding power output and superior linearity: MOS-FET amplification, or, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So you can crank up the volume or set it low for easy listening. Either way, with MOS-FET, your music has never sounded quite like this.

**Z-Enhancer Plus**  
Enrich your listening experience by adapting your sound system to your music tastes with Clarion's Z-Enhancer Plus. This feature allows you to select from three performance patterns — Type1, Type2 and Type3. The gain and Q (acuteness) of each



performance pattern can also be adjusted, making it possible to emphasize the power and responsiveness of each band. Simply touch the control keys to arrange the sound inside your car to better suit your favorite music genre.



**DX2556MP NEW**  
CD/MP3/WMA RECEIVER / CeNET CONTROL

- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- 2-Band Parametric EQ (Z-Enhancer Plus)
- Magna Bass EX
- 212W (53W x 4)
- MOS-FET
- 4ch RCA Line Level Output
- Built-in Amplifier Bypass Circuit (=AMP Canceller)



- Retractable Rotary Volume Control
- Smart Control Key
- Screen Saver with User-Programmable Message Information
- Adjustable Display Contrast
- Flip-Down Console
- CD Text, CD Titling, Station Titling
- IR Remote Control
- 18FM/GAM Presets

- Detachable Control Panel with Blinking Anti-Theft Indicator
- CeNET Control of : DVD Changer, TV tuner, 6-Disc CD Changer
- 2ch Adjustable AUX Input
- CeNET iPod Interface Compatible



CD Loading Slot

**DB456MC NEW**  
CD/MP3/WMA RECEIVER / MUSIC CATCHER

- Music Catcher Digital Recorder Built-in
- Plays MP3 and WMA Encoded CDs
- Plays CD-R/RW
- Z-Enhancer
- Magna Bass EX
- 208W (52W x 4)
- Shock Proof Memory (45sec)



- 2ch RCA Line Level Output
- Rotary Volume Control
- Screen Saver with User-Programmable Message Information
- CD Text, CD Titling, Station Titling
- IR Remote Control
- 18FM/GAM Presets
- Detachable Control Panel



Detachable Control Panel



**Music Catcher system**

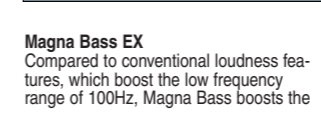
You can freely record and play up to 40 songs (in LP mode). With your favorite songs always ready to go, you won't have to carry your CDs around with you, and since there's no hide-away unit, you'll have plenty of trunk space for other nice things like subwoofers.

**Rotary volume control**

Blending ergonomics, styling and functionality, Clarion's popout, rotary volume control offers precise control of your audio system. Illuminated during nighttime use, the rotary dial boasts a rubberised grip and a large design so you'll always be in control.

**Z-Enhancer**

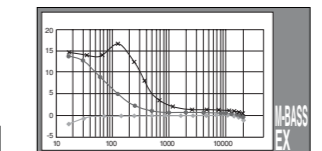
Three types of sound quality patterns are pre-set for easy selection. Boost the bass only, the treble only, or both, with the level of boost adjustable by the user.



**Magna Bass EX**

Compared to conventional loudness features, which boost the low frequency range of 100Hz, Magna Bass boosts the

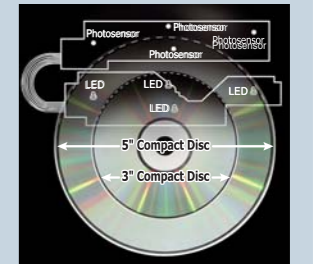
ultra-low frequency range with a center frequency of around 50Hz. For additional bass response, Clarion has added Magna



Bass EX, which goes beyond Magna Bass by boosting the ultra-low frequency range centered around 50Hz. This feature also reduces noise thanks to its automatic compensation function, which produces well-balanced, dynamic bass sound no matter how loud you play your music.

**Clarion's low-vibration suspension system**

Each Clarion CD mechanism features a low-vibration suspension system consisting of springs and dampers to prevent skipping and mistracking. Clarion employs a three-beam laser assembly on all CD players and changers. The central beam is used to pick up the digital information to send

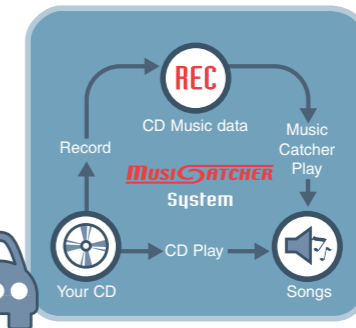
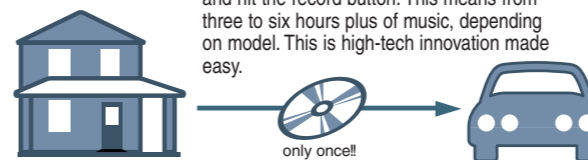


to the D/A converter, while the two outer beams guide the laser lens assembly to precisely track the digital information on the CD. With the low-vibration suspension system, Clarion CD players can play without skipping or mistracking. The laser assembly can stay focused on the CD surface with lower correctional information from the focusing servo. As a result, the music contained on the CD will be reproduced flawlessly.

**Road Entertainment Revolution. Music Catcher gets your music and gets you noticed.**

**Music Catcher System**

No complicated connection to any external device ... Music Catcher. Not less than 3 models feature this one touch CD recording technology transforming those units into in-dash digital juke box. Music Catcher allows for CDless, skip-free music playback ... guaranteed. Just load your CD into the Music Catcher source unit, select a track and hit the record button. This means from three to six hours plus of music, depending on model. This is high-tech innovation made easy.



\*The products which do not have the CD TEXT function can not show the on-screen information for iPod.  
\*Only English is available for the on-screen information for iPod function.

**DB356MP** NEW

**CD/MP3 RECEIVER**

- Plays MP3 Encoded CDs
- Plays CD-R/RW
- Z-Enhancer
- Magna Bass EX
- 204W (51W x 4)
- 2ch RCA Line Level Output
- Rotary Volume Control
- Screensaver
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel



Detachable Control Panel



- CD-R/RW
- MP3 128 TAG
- Rotary Volume Control
- DCP
- ENHANCER
- M-BASS EX
- 2ch OUTPUT
- 51W x 4

**MP3 Playback**

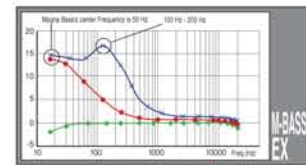
Compatible with MP3 compressed audio formats to support your long drives into today's information age.

**Rotary control: 0-60 in just a turn**

Clarion's electronic rotary volume control offers several benefits over the conventional rotary volume control. For one, the ergonomic design is easy on the fingers. Another advantage is the smooth transition in volume level when turning the sound up or down. Rather than utilising a resistor-type potentiometer volume control, which can cause unwanted noise, Clarion's electronic potentiometer volume control provides precise control and clarity.

**Magna Bass EX**

Compared to conventional loudness features, which boost the low frequency range of 100Hz, Magna Bass EX boosts the ultra-low frequency range with a centre frequency of



around 50Hz. For additional bass response, Clarion has added Magna Bass EX, which goes beyond Magna Bass by boosting the ultra-low frequency range centered around 50Hz. This feature also reduces noise thanks to its automatic compensation function, which produces well-balanced, dynamic bass sound no matter how loud you play your music.

**DB256** NEW

**CD RECEIVER**

- Plays CD-R/RW
- Z-Enhancer
- Magna Bass EX
- 204W (51W x 4)
- 2ch RCA Line Level Output
- Rotary Volume Control
- Flip-Down Console
- Screensaver
- IR Remote Control
- 18FM/6AM Presets
- Detachable Control Panel



Detachable Control Panel



- CD-R/RW
- Rotary Volume Control
- FLIP DOWN C.M.B.U.S.
- DCP
- ENHANCER
- M-BASS EX
- 2ch OUTPUT
- 51W x 4

**Flip-Down console**

At the touch of a button, the control panel flips down to reveal a CD loading slot. This design allows more effective usage of the control panel with a larger display and larger knobs for easier operation.



Flip-Down Console

**DB156** NEW

**CD RECEIVER**

- Plays CD-R/RW
- Z-Enhancer
- Magna Bass EX
- 204W (51W x 4)
- 2ch RCA Line Level Output
- Rotary Volume Control
- Screensaver
- 18FM/6AM Presets
- Detachable Control Panel



Detachable Control Panel



- CD-R/RW
- Rotary Volume Control
- DCP
- ENHANCER
- M-BASS EX
- 2ch OUTPUT
- 51W x 4

**Solid Performance for Discs and Tapes**



- CD-R/RW
- MP3 128 TAG
- Rotary Volume Control
- FLIP DOWN C.M.B.U.S.
- MESSAGE Information
- M-BASS EX
- G-EQ
- 2ch OUTPUT
- AUX INPUT
- 50W x 4

**ADB341MP**

**CD/MP3/CASSETTE RECEIVER**

- Flip-Down Console
- Plays CD-R & RWs
- Plays MP3 Encoded CDs
- Full Logic Cassette with Auto Reverse
- 3-Band Graphic EQ
- Magna Bass EX
- LC Display with Spectrum Analyser
- 2ch RCA Line Level Output
- 2ch AUX Input
- 200W (50W x 4)
- 18FM/6AM Presets
- CD Text, CD Titling



CD Loading Slot



Cassette Loading Slot

**G-EQ Patterns**



**SPE-ANA Patterns**



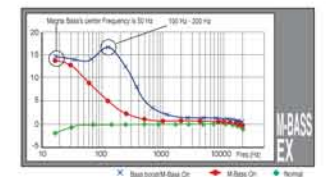
**Message Information**

Personalize your source unit's display screen by adding your own text message. For added effect, this feature also allows your message to scroll across the screen. Use this feature as a bulletin board for your vehicle, or utilize it as a memo pad.

**Magna Bass EX for dynamic bass re-sonation**  
Whether your music is playing at a low or high volume, achieving well-balanced bass inside the car has never been easier. Allowing you to boost the ultra-low frequency range of your sound system with a centre frequency of around 50Hz, this feature automatically compensates for the increased bass to eliminate any unwanted noise.

**MP3 Playback**

Compatible with MP3 compressed audio formats to support your long drives into today's information age.



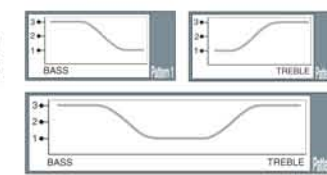
**AX330**

**CASSETTE RECEIVER/ C-BUS CONTROL**

- C-BUS 6-CD Changer Control
- Z-Enhancer
- Auto Reverse
- Loudness Control
- 160W (40W x 4)
- Rotary Volume Control
- Green Illumination
- 20FM/5AM Presets

**Z-Enhancer**

Three types of sound quality patterns are pre-set for easy selection. Boost the bass only, the treble only, or both, with the level of boost adjustable by the user.



**AX330**



**AB230**

**CASSETTE RECEIVER**

- Z-Enhancer
- Auto Reverse
- Loudness Control
- 160W (40W x 4)
- Rotary Volume Control
- Green Illumination
- 20FM/5AM Presets



**ARB1970** Not available in Australia.

**CASSETTE RECEIVER**

- Auto Reverse
- 200W (50W x 4)
- Rotary Volume Control
- Amber Illumination
- Detachable Control Panel



## System Packages

In response to user requests for high-performance car audio systems with easy installation, Clarion is proud to introduce its system packages. Although component selections are easy for users who are knowledgeable about audio systems, it can be extremely difficult for users with little experience. Clarion settles this issue by offering two high-performance packages based on Clarion technology and experience.

The Amigo-1 is a system combining an AM/FM cassette player and 6-disc CD changer. Not only can you enjoy AM/FM radio broadcasts, but you can also listen to music from cassette tapes and the 6-disc CD changer.

The Amigo-2 is a system combining an FM modulator and 6-disc CD changer. This package allows users who already have an FM radio in their car to enjoy music from a 6-disc CD changer. In this way, Clarion's system packages allow you to easily enjoy the best possible car entertainment experience.

### Amigo-1

#### AX330 AM/FM CASSETTE RECEIVER WITH C-BUS CONTROL AND C-BUS 6-DISC CD CHANGER

##### AX330

###### Tuner Features:

- 20FM/5AM Presets
- SASC/Super SASC Circuit

###### Cassette Features:

- Auto Reverse
- Key-off Pinch Roller Release
- Back-up Eject

###### Audio Features:

- Rotary Volume Control
- Z-Enhancer
- Loudness Control
- Built in 4 X 40 W Power Amplifier

###### Extension Features:

- C-BUS CD Changer Control

##### DC625 C-BUS 6-Disc CD Changer

###### CD Features:

- 1-bit DACs Converter
- CD-R/CD-RW Ready
- 0-bit Detector™ Mute Circuit
- Horizontal/Vertical Mounting Capability



### Amigo-2

#### CD CHANGER CONTROLLER FMC250 WITH C-BUS 6-DISC CD CHANGER DC625

Connects to any electronically tuned FM Stereo Car Radio

##### FMC250

###### CD Changer Control Features:

- Disc Select (Up/Down)
- Random Play (Disc/Track)
- Track Music Search
- Last Position Memory

###### General Features:

- 7-Seg. Green Colour LCD
- Cable (DIN): 2 m
- Input Level Control: 4-Point
- Frequency Select.: 87.7 to 89.9 MHz (0.2 MHz-Step 12-Point)
- IR Remote Control Included

##### DC625 C-BUS 6-Disc CD Changer

###### CD Features:

- 1-bit DACs Converter
- CD-R/CD-RW Ready
- 0-bit Detector™ Mute Circuit
- Horizontal/Vertical Mounting Capability



### DCZ625

#### 6-DISC CD CeNET CHANGER

- 6-Disc Magazine
- Plays CD-R and CD-RW Discs
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- Fiber Optical Digital Output
- CD Text and CD Titling
- CeNET



### DC625

#### 6-DISC CD C-BUS CHANGER

- 6-Disc Magazine
- Plays CD-R and CD-RW Discs
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- C-BUS



### FMC250



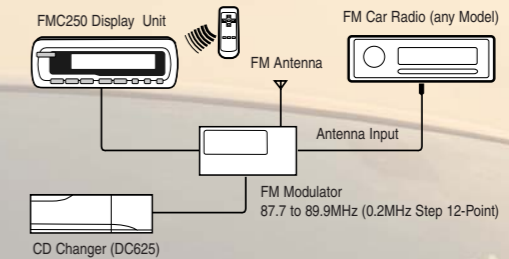
#### CD CHANGER CONTROLLER WITH FM MODULATOR

- Play/Pause Selector
- Repeat Play
- Random/Scan Play
- Track Search
- Disc Selector
- Software Controlled Setup
- Flush Mounting Bracket Included



#### Play Back CD Sound on Any FM Car Radio

The FMC250 controls a Clarion CD changer and plays back the sound via your FM car radio — no matter which brand. The FMC250 hideaway unit connects between your FM radio antenna input and the car antenna. Simply tune your radio anywhere from 87.7 to 89.9MHz (0.2MHz step 12-point) and listen to superior Hi-Fi CD sound in full stereo from the connected Clarion CD changer.



New 1/2 DIN Equalizer with 7 bands of adjustment, and built-in highpass and low pass crossovers with subwoofer level control

A versatile crossover with inputs for either a three-way system, or a two-way system with front and rear fader control. A wired remote subwoofer level control is included.

### EQS744

#### 1/2 DIN GRAPHIC EQUALIZER/CROSSOVER

- 7-Band Graphic Equalizer
- Selectable Main & Aux. Inputs
- Subwoofer Level Control
- Selectable Subwoofer Low-Pass Frequency 60Hz or 90Hz
- 6ch / 7-Volt RCA Line Level Output



### MCD360

Not available in Australia.

#### 3-WAY ELECTRONIC CROSSOVER

- 18dB/oct. Slope
- Front/Rear Subwoofer Level Control
- Built-in Bass EQ
- Remote Subwoofer Level Control (included)
- Cross Frequency Multiplier
- 2/4/6ch Inputs / Separate F/R Crossover
- 6ch Line Level Outputs



## Overwhelming Performance Brings Out the True Nature of Sound for a Higher Class of Experience

The top-class HX-D2 brings together all the features demanded of today's main unit, including high-performance functions, high quality parts, body design and materials, for the faithful reproduction of sound. Numerous high-performance features, including 96kHz Sampling D/A Converter, 4-Way Crossover and 5-Band Parametric EQ, let you discover the finest nuances of sound and create a sound taste exactly as you want it. Moreover, the Glass Epoxy 4-Layer Circuit Board and large external power supply unit DC/DC converter deliver stable circuit driving and high quality sound, with a body construction that takes performance into consideration with every detail. This collection of high performance provides car audiophiles looking for the ultimate sound a high-class sound solution.



### HX-D2

#### CD RECEIVER / CeNET CONTROL

- Dual 24Bit/96kHz Sampling DACs and DSP
- Burr-Brown DACs
- Plays CD-R & CD-RWs
- 4-Way Crossovers (Subwoofer/Low/Mid/High) Built-in
- 5-Band PEQ
- Digital Time Alignment for Each Line Level Output

- 4V/8ch Gold Plated Line Level Outputs (for SW/L/M/H or Front 2-Way/Rear/SW) with OFC Cables
- Copper Plated Chassis
- DC/DC Converter
- CeNET Control of Optional: TV Tuner, DVD Changer and 6-Disc CD Changer
- Multi-Changer Control
- Two 2ch Aux. Inputs
- Fibre Optic Input/Output
- Vacuum Florescent Display
- IR. Remote Control

- Line Level Output Only (Requires External Amplifier)
- Radio Tuner with 18FM/GAM Presets
- Ultra Precision Rotary Volume Control
- Zinc Diecast Faceplate
- CeNET iPod Interface Compatible



CD Loading Slot

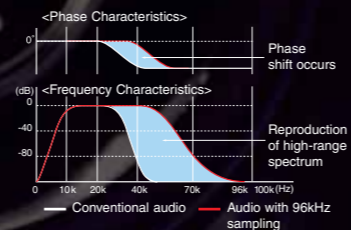
## 96kHz Sampling D/A Converter

Conventional CD players could only reproduce up to around 20kHz. Sampling takes place to convert digital signals to analog. In this process, digitized sound with a frequency range of up to about half the sampling frequency is reproduced. For example, in the case of CDs which are sampled at a frequency of 44.1kHz, playback is possible for up to half that, or 22.05 kHz. Sampling is set at 44.1kHz to achieve reproduction of highs in the neighborhood of 20kHz.

Harmonic elements included in high range add richness and depth to sound. The format specifications for CD deemed the high frequency elements above 20kHz as inaudible by the human ear, and thus they were not recorded. And even if such high frequencies were reproduced during playback, they would be detected as noise elements and removed by a digital filter. Not only that, but phase distortion was introduced as a result of noise cut-off by the filter, thereby inhibiting the accurate reproduction of high frequency sounds. Ironically, it is the harmonic elements contained in this high frequency range that affects the depth and nuance of sound.

96kHz sampling enables reproduction of sounds faithful to the original source. The 96kHz Sampling D/A Converter samples at a much higher rate than the usual 44.1kHz to offer reproduction frequencies as high as 48kHz (half the sampling frequency of 96kHz), surpassing the format specifications for CD as the first such D/A Converter for car audio use. By broadening the sampling range, it becomes possible to reproduce the subtle nuances and depth contained in harmonic elements while reducing phase distortion in the high frequency range, delivering the full expressiveness and natural resonance that is inherently present in sound.

#### Conceptual Diagram of Frequency/Phase Characteristics



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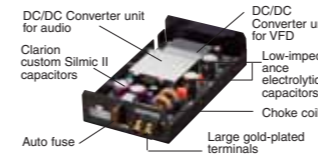
Ready for iPod

#### Copper Plated Chassis Prevents Sound Deterioration

Uses a copper plated chassis to minimize the generation of spurious electrical current which can adversely affect sections that have a bearing on the signal, as well as noise interception caused by electrical shielding effect. By incorporating a zinc diecast panel, with its large specific gravity, high rigidity and low resonance, sound quality deterioration due to vibration is reduced. And by externally positioning noise generating parts such as the power supply, VFD devices for the display and drive mechanism, the sources of noise are eliminated.

#### DC/DC Converter Developed Specifically for Audio

This external power supply unit, veritably a collection of only the most carefully selected high spec parts, from wiring to fuses and chassis, was developed especially for car audio. Together with the six-sided shielded casing, this thoroughly shuts out noise even during high load bursts. By use of aluminum diecast casing and black finished copper chassis, it takes into consideration the effects



of vibration on sound quality. Noise from the car is eliminated and power loss is minimized thanks to the use of toroidal choke coils. Pure power input is achieved due to the combined use of large-capacity low-impedance condenser. And by adopting the gold-plated connection



terminal identical to those found on external amps, power loss from the battery is kept at bare minimum levels.

#### Specially Designed Mechanism Chassis with 3-Layer Coated Nickel Plating

By shielding the CD mechanism, it eliminates the effects of the moving servo motor and pickup from the audio circuits. In order to mitigate the noise and vibration generated by the mechanism, its weight was increased to improve stability, and a 3-layered coating process, where the base steel material is plated with copper followed by a nickel finish, was applied. Even minute signals will be reproduced with clarity.

#### Fluorescent Display (VFD) for Superior Visibility

Using a high-luminosity VFD, the display offers clear visibility even under direct sunlight. The heater circuit used to drive the fluo-

#### High-Sampling Conversion Circuit

The sampling conversion circuit upconverts the digital audio data read from a CD to fs96kHz and applies high-speed interpolation using a DSP by AKM Corporation, converting up to a maximum fs786kHz using a high-sampling compatible 8x FIR digital filter.

#### Burr Brown Advanced Segment Type 24-bit D/A Converter

After high sampling the data is processed by an advanced segment type Burr Brown 24-bit D/A Converter which offers superior dynamic characteristics and is resistant to clock jitter. Since the D/A Converter's internal structure is a 4DAC configuration which operates on L/R± differential, higher accuracy in D/A Conversion is afforded.

#### High-Performance Operational Amp Selected for Analog Section

High through rate operational amp for the voltage current conversion circuit which accepts the output signal from the D/A Converter, high-definition audio output is achieved. Moreover, for audio operational signal composing and active low-pass filter, a high-speed operational amp by Analog Devices Corporation offering superior sound quality is used.

#### Silver-Coated SK:6N (99.9999% Oxygen-Free) Copper RCA 8ch Output Cable

Uses silver-coated SK:6N (99.9999% Oxygen-Free) Copper RCA 8ch output cable which combines the clear low-resistance afforded by silver wiring with the dynamic capacity characteristics of 6N oxygen-free copper wiring, to send natural, high-quality sound to the power amplifier.

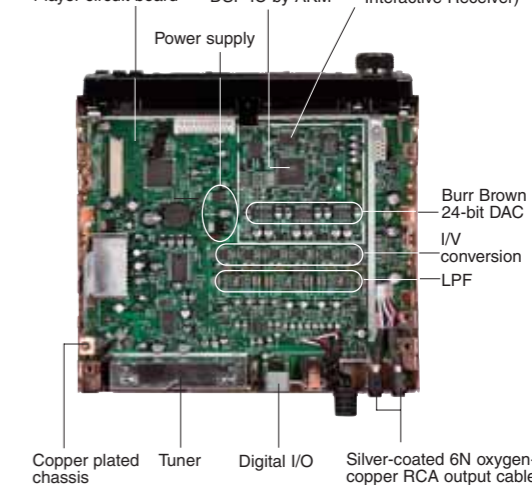
#### Glass Epoxy 4-Layer Circuit Board

Internal circuitry uses a glass epoxy 4-layer circuit board, with separate exclusive layers for ground and power supply, lowering the impedance for ground and power supply for stable circuit driving and high sound quality.

#### Display OFF Function

Turns off the display circuits when a CD or other source is being played, preventing pulse noise from the display section from affecting sound quality.

#### Glass epoxy 4-layer circuit board



Power supply, 96kHz/s sampling DSP IC by AKM, DIR (Digital Audio Interactive Receiver), Burr Brown 24-bit DAC, I/V conversion, LPF, Copper plated chassis, Tuner, Digital I/O, Silver-coated 6N oxygen-free copper RCA output cable

#### 8-Channel 4-Way Crossover

With Multimode, it's possible to create a multi speaker system with each band (HIGH, MID, LOW, SUBWOOFER) driven by an exclusive amp. The Digital Crossover function lets you make fine and precise adjustments to each frequency range to bring out the full performance of each speaker and create an extremely natural transition. Setting of various types of systems, including 2-Way and 3-Way, is possible. And with adjustable settings for cut-off frequency (315Hz-), slope (-6dB, -12dB, -18dB), gain (-24-0dB step), phase (0°/180°), etc. for each band, it is possible to precisely adjust the sound as desired directly from the head unit. You even get all channel muting which can be helpful when adjusting the system.

#### MULTI MODE

Used for reproduction of 2-channel sources. Even if currently using a system with front and rear tweeters/woofers, you can create a new system with HIGH, MID, LOW, SUBWOOFER by adding an amp for tweeter, midrange, woofer, and subwoofer in the trunk.

#### STANDARD MODE

Can configure standard systems with front and rear plus subwoofer. It supports up to 8-channel systems with 2-Way front, rear speakers and subwoofer, where the front channel has HIGH, LOW, and a rear 1-channel and subwoofer.

#### DIRECT MODE

Provides front, rear, non-fader 3-channel output while avoiding digital circuitry such as DSP and memory as much as possible. This mode allows direct reproduction of sound sources based on the original concept of analog sound.

#### World's Finest 0.7cm Step Digital Time Alignment

This function lets you set each speaker in a maximum 8-channel system to deliver the same acoustic effects with pinpoint accuracy

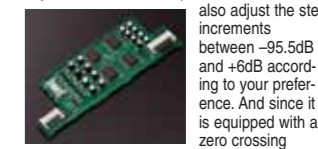
regardless of the seating position of the listener, with FRONT-L, FRONT-R, FRONT, REAR, and FULL SEAT position selectable. The Front L/R, Rear L/R, Center speaker and Subwoofer work in harmony to create a seamless soundscape. It's possible to quickly and easily select the acoustic pattern you like, or choose different ones optimized according to the number of passengers or type of vehicle. (Adjustable range: 0-500cm, in 7mm steps)

#### 5-Band Parametric EQ

In addition to conventional tone control (Bass, Treble), this enthusiast-oriented graphic equalizer divides the frequency range into 5 bands and allows adjustment of each individually. This 5-band L/R independent parametric equalizer (50-20kHz for bands 1/2/3, 630-20kHz for bands 4/5) lets you choose the band you wish to set and finely adjust the Q (0-12kHz, 0.5 step increments) and Gain (0.5dB step increments). It helps correct the frequency range balance in your car to make its acoustic characteristics as flat as possible.

#### World's First 0.5dB Step Electronic Volume Circuit

By incorporating the Burr Brown volume IC that is used in recording mixers and other professional audio equipment, it achieves fine adjustment in 0.5dB step increments. You can also adjust the



increments between -95.5dB and +6dB according to your preference. And since it is equipped with a zero crossing

detection function, there is no switching noise while the volume is being changed, thus providing smooth volume adjustment just as you would get with an analog volume control.



### HX-D1

Not available in Australia.

#### CD RECEIVER/CeNET CONTROL

- Clarion High Fidelity CD Player Without Built-in Amplifier
- CeNET Control of 6 Disc CD Changer
- Dual 24-Bit D/A Converter
- CD Text
- HDCD Disc Playback
- High-capacity DC/DC Converter (± 15 V)
- 4 Volt / 4ch RCA Output (Max 9V)
- High Purity OFC Cable
- 2ch AUX Input
- High Visibility Blue-White VF Display
- Copper Plated Chassis
- Optical Input Terminal for connection with DCZ625
- Aluminium Analogue Rotary Volume Control
- 18FM/GAM Presets
- FM Diversity
- CeNet iPod Interface Compatible

\*The products which do not have the CD TEXT function can not show the on-screen information for iPod. \*Only English is available for the on-screen information for iPod function.



### DRX9255EXL

Not available in Australia.

#### CD RECEIVER/C-BUS CONTROL

- Clarion Performance CD Player Without Built in Amplifier
- C-BUS CD Changer Control
- ALPHA Processor\*
- Dual 20-bit D/A Converter
- 4Volt / 4ch RCA Output (Max 9V)
- High Visibility Blue VF Display
- Copper Plated Chassis
- High S/N Analogue Rotary Volume
- 18FM/GAM Presets
- FM Diversity

\*The ALPHA processor was developed by Nippon Columbia Co., Ltd.



Clarion



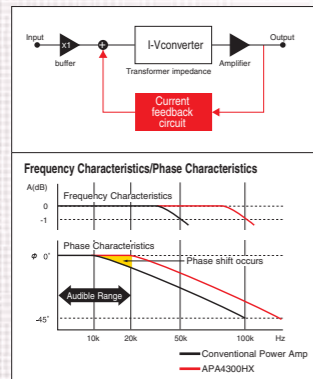
▶ **APA4300HX** Not available in Australia.

**4/3/2-CHANNEL AMPLIFIER**

- Bridgeable for 4-, 3 or 2ch mode operation
- Power Guard Circuit • Low-loss Power Supply with High Power Output • Continuous Average Power Output: 300W (75 x 4 into 4 Ohms, 20Hz-20kHz, 0.002% THD) • Maximum Power Output: 600W (4 x 150W 4 into 4-ohms) • Variable 4-ch Low-Pass Filter and High-Pass Filter (50-200Hz) • Bass Extender (40~120Hz, 0~+12dB) • Direct Input • Digital Display with 4ch status information
- Aluminium Housing With Built-in Cooling Fan
- 100kHz Extremely High Frequency Reproduction
- Dolby Digital/dts Ready



**Unlimited Potential for Sound That Envelopes the Senses.**



**Current Feedback Amplification Circuit**

By employing a current feedback amplification circuit — regarded as the circuit of choice in the home audio industry — Clarion's APA4300HX paves the way to future technologies such as DVD-Audio. This unique design maximizes the potential of an amplifier, allowing it to realize even ultra-high frequency levels of 100kHz. This wideband, high-speed amplification circuit also ensures stable phase characteristics and response, resulting in warm, rich sound.

**Melding Rich Sound With Crystal Clear Harmonics**

Allowing for the harmonious blend of soulful vocals with tone-rich instruments. Clarion's current feedback amplification circuit allows your amplifier to add dimension to your music. Fielding ultra-high frequency sound in the range of 100kHz, the amplification circuit provides your music with additional harmonic elements while maintaining the main frequency element. The result is sound that engulfs the senses.

**Ultra High Range Reproduction Cancels Phase Shift**

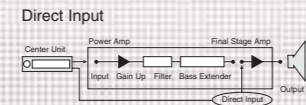
Unlike conventional amps, which allow phase shifts of high-range frequencies to become audible, Clarion's APA4300HX — equipped with a current feedback amplification circuit — cancels these sound-hindering interruptions, resulting in crystal clear sound.

**Aluminium Heat Sinks and Forced Cooling Fan**

For superior heat dissipation, Clarion's APA4300HX employs a large, tunnel-shaped sub-heat sink, as well as an internal, heat-sensitive fan. Located to the center of the chassis, the fan adds additional heat protection to internal parts. This means the amplifier will maintain peak performance even when operating under extreme conditions.

**Direct Input Terminal**

The longer an audio signal travels the more chance there is for sound quality degradation. By employing a direct input terminal, the audio signal travels a short distance from input to output during amplification, allowing the signal to maintain its original characteristics. The straight and non-contact circuit also eliminates any contact points that can potentially harm your system's sound quality. This results in a smooth signal transfer and superior performance.



**Power Guide Circuit**

The APA4300HX's input stage prevents the generation of clipping distortion by holding down the gain when overdrive distortion is detected at the output stage. By removing only distortion elements, the amplifier protects your speakers from potential damage while also maintaining its superior sound qualities.



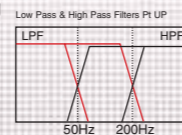
**4-Part Digital Meter**

Stay in tune with your amplifier with the APA4300HX's 4-Part digital meter. Monitor your amp's real-time power output level and consumption, voltage level and internal temperature.



**Low-Pass and High-Pass Filters**

Outfitted with built-in, low-pass and high-pass filters (-24 dB/oct.), the APA4300HX allows for adjustment in the 50Hz to 200Hz frequency range over all channels. This setup is ideal when operating a system that touts multiple amplifiers and subwoofers.



**Input Mixing**

Clarion equips its APA4300HX with an input mixing function, a key feature when bridging the left and right signals. Combine that feature with the unit's built-in, low-pass and high-pass filters and the result is an amplifier that harmoniously compliments a monaural subwoofer.



**Low-Loss High-Output Power Supply and Quality Parts**

The APA4300HX's input stage prevents the generation of clipping distortion by holding down the gain when overdrive distortion is detected at the output stage. By removing only distortion elements, the amplifier protects your speakers from potential damage while also maintaining its superior sound qualities.

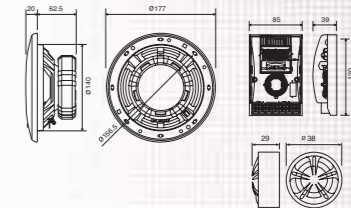


▶ **SRS1751HX**

**16.5CM (6 3/4") 2-WAY HX SERIES COMPONENT SYSTEM**



- Glass fibre cone woofer with rubber surround • Pure silk dome tweeter with dual neodymium magnet
- 2-way mounting tweeter (variable angle flush mounting/surface mounting)
- Extremely high frequency reproduction up to 120kHz • High grade -12dB/oct. 2-way crossover network with level attenuator (0, -3 dB)



**HX Series: A Difference You Can Hear and See**

New digital media is constantly pushing the limit on sound quality. Clarion's HX Series takes them on with Super Tweeters capable of reproducing an amazing 120kHz, making them ideal for 5.1ch applications where sound quality is a key factor. And the glass fibre woofer cone offers improved internal loss and sound propagation in order to accommodate the broader dynamic range of digital sources such as DVDs, CDs. HX Series — your source for dynamic looks and dynamite sound.

**120kHz reproduction tweeter**

The ultrasonic (harmonic) component which lies beyond the frequency range audible to humans recreates the sense of space and the fine nuances within the music. As such, it has a very important role. Concentrating on that component, AddZest chose a silk dome and dual neodymium magnets to develop this specialized tweeter for rich harmonic reproduction. Leading the industry in 120kHz reproduction, we have already gone beyond the performance we need to match next-generation media, such as DVD audio and SACD, which reach beyond the human-audible frequency range. The generous wide range properties also add a sense of stability and far-reaching high-range reproduction in ordinary CD playback.

**Rear-vented pole piece**

The woofer pole piece is equipped with a vent that goes through to the back plate. In addition to reducing heating in the voice coil, the vent also substantially improves the air emission volume from the woofer duct, allowing the diaphragm to move smoothly through its stroke.

**Glass fiber cone**

High-strength glass fibers are woven into the cone, vertically and horizontally, giving greatly enhanced rigidity. There is very little distortion due to depression or flexing, even during high amplitude movement under high input levels, so the music reproduction is always tight.

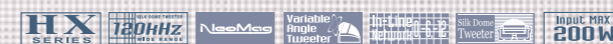
**Variable angle tweeter**

The speaker can be mounted two ways, the dashboard or in a door. Even after the tweeter is mounted in place, its variable angle mounting allows you to change its direction and angle freely to the best orientation for your seat position.

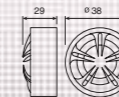


▶ **SRH291HX**

**2CM (1/2") HX SERIES SUPER TWEETER**



- Pure silk dome tweeter with dual neodymium magnet • 2-way mounting tweeter (variable angle flush mounting/surface mounting)
- Extremely high frequency reproduction up to 120kHz • Includes -6dB/oct. in-line network with level attenuator (0, -6dB, -12dB)



# Clarion Amplifiers for 2005...

## The overwhelming performance difference that supports the soundscape in the background.

### Upgrade your system with polished circuit design and unwavering power.

The digital circuitry lets you hear tones and reverberations that were inaudible until now, to their fullest. The overwhelming performance of the power supply section delivers sound that's a class above, with stable power. And the mass transfer capabilities of digital music sources... The Clarion 2005 power amp lineup's top-end APX4300HX is the perfect partner for the HX-D2, being equipped with all the factors that you would demand of a power amplifier.

Whether you're listening to music or watching your car theater, the performance of the power amp plays a crucial role in the sound you hear. Our original circuit constructed of high quality devices, and a fan-less design which maximizes heat dissipation while achieving high power and space reduction. Regardless of the type of system you create, all of the sounds that fill your car reach fruition here.

**Gold-plated RCA and block terminal on all Clarion Amplifiers**  
By utilizing gold-plated RCA (APA4320/2160) and block terminals (APA4320/2160), Clarion's amplifiers offer increased conductivity and low signal loss. Gold has extremely low electrical resistance and low contact resistance, which helps to prevent voltage drops, noise, heating and other problems from occurring.



**Space-saving design with high heat the Dissipation (APA4320/2160)**  
APA4320 & APA2160 feature a die-cast design that boasts multiple heat sinks for high-heat dissipation. This eliminates the need for an internal fan. Also preventing overheating is the amplifier's circuit design that inhibits heat dispersal. This heat dispersal effect is maximised during consecutive drives for high power in minimal space.

**Gapped-E core choke coils (APA4320/2160)**  
Utilised in the power supply circuitry, gapped-E core choke coils offer low impedance, making them resistant to harmful magnetic noise. This results in a more efficient amplifier and a low-noise power supply, which is important when achieving crystal clear sound.

**2-ohm stability**  
Utilising this design for peak performance and unwavering reliability, Clarion's amplifiers can drive lower impedance loads for increased power.

**Circuit design achieves high quality sound**  
Encompassing a host of high quality components, Clarion's amplifiers take your music to a whole new level. Featuring uncompromising resistance to magnetic noise, the circuit design used by Clarion's amplifiers allow for easy subwoofer system configurations using its embedded high-pass and low-pass filters. What's more, Clarion's high-grade, gold-plated block terminals offer low electrical and contact resistance for crystal clear sound. These amps also boast 2-ohm stability for increased power and reliability when connected to speakers with 2-ohm loads. Put simply, Clarion is unveiling a line of amplifiers that tout superior power and versatility.



The APA4320 has the most advanced, integrated components for delivering superior audio performance.



### ▶ APA4320

**4 × 160W BRIDGEABLE POWER AMPLIFIER**



- 4/3/2 Channels Bridgeable Mode Operation • Maximum Power Output 640 W (160W × 4 Into 4 Ohms) • Continuous Average Power Output 320W (80W × 4 Into 4 Ohms) • Typical Bridged Power 230W × 2 @ 0.2% THD
- Typical 2 Ohms Stereo Power Output 115W × 4 @ 0.2% THD • Bass Extender: 0/+15dB @ 45Hz • Independent Front/Rear Adjustable Crossover Frequencies (HP/LP): 55 - 550Hz or 550 - 5,500Hz • Adjustable Line Level Input 200mV up to 6V • Speaker Level Inputs to Allow Easy Interfacing with Factory Car Stereos • Soft Mute On/Off Circuitry • Gold Plated Isolated Massive Speaker and Power Supply Connectors



### ▶ APA450

**4/3/2-CHANNEL AMPLIFIER**



- Maximum Power Output 400W • Continuous Average Power Output 200W (50W × 4 Into 4 Ohms 20Hz-20kHz) • Typical 2 Ohms Stereo 100W × 4
- Switchable Bass Boost at 0dB/6dB/12dB
- Adjustable 50Hz-250Hz, High-/Low-Pass Crossover • Bridgeable 4-/3-/2-Channel Operation
- Speaker Level Inputs



### ▶ APA2160

**2 × 160W BRIDGEABLE POWER AMPLIFIER**



- 2/1 Channels Bridgeable Mode Operation • Maximum Power Output 320W (160W × 2 Into 4 Ohms) • Continuous Average Power Output: 160W (80W × 2 Into 4 Ohms) • Typical Bridged Power 250W × 1 @ 0.2% THD • Typical 2 Ohms Stereo Power Output 125W × 2 @ 0.2% THD • Bass Extender: 0/+15 dB @ 45Hz • Adjustable Crossover Frequency (HP/LP): 55 - 550Hz or 550 - 5,500Hz • Adjustable Line Level Input 200mV up to 6V • Speaker Level Inputs to Allow Easy Interfacing with Factory Car Stereos • Soft Mute On/Off Circuitry • Gold Plated Isolated Massive Speaker and Power Supply Connectors



Clarion leaves no stone unturned with a design that melds functionality and eye-popping cosmetics.

### ▶ Striking a Chord Through Cosmetic Functionality

From its wave-like heat sink design to its striking aluminum die-cast body and center heat exhaust port, Clarion demonstrates its pursuit for cutting-edge looks and performance through flawless execution. Working two-fold, the design not only boasts progressive aesthetics, but also the ability to maximize heat dissipation effects for high-power performance in minimal space. On the heels of perfection,

### ▶ APA250

**2/1-CHANNEL AMPLIFIER**



- Maximum Power Output 200W • Continuous Average Power Output 100W (50W × 2 Into 4 Ohms 20Hz-20kHz) • Typical 2 Ohms Stereo 100W × 2 @ 0.5% THD • Switchable Bass Boost Control 0dB/6dB/12dB • Adjustable 50Hz-250Hz, High-/Low-Pass Crossover • Speaker Level Inputs



### ▶ DPX1200.1

**MONO AMPLIFIER**



- Continuous Average Power Output 477W (Into 4 Ohms, 20Hz-20kHz @ 0.05% THD) • Typical 2 Ohms Stereo @ 0.2% THD: 840W • Precise Frequency Selector-Adjustable 55Hz - 55kHz 12dB/oct High/Low - Pass Crossover • Subsonic Filter • Remote Level Control Included • Speaker Level Inputs • 4 Layered Glass Epoxy Circuit Board • Selectable Input Voltage with Variable Gain Control

# Clarion Subwoofers/Speakers for 2005...

## Hybrid Paper-Polymer Composite Cone (Subwoofer)

In order to meet the severe low-frequency reproduction demands of digital sound sources, the speaker cones feature a hybrid paper-polymer composite diaphragm that blends the high rigidity of paper and the responsiveness of polymer. The result is high efficiency energy exchange from voice coil to diaphragm to air, offering powerful, tight sound for bass reproduction in the digital age.

## Dual 4 Ohm Voice Coils (Subwoofer)

Clarion's subwoofers utilize dual voice coils for linear tracking of large amplitude input signals. Dual coils reduce the counter electromotive force, which often occurs in the high-range bands. It also prevents variations in the woofer's impedance to eliminate distortion. Employing a dual voice coil configuration — which provides extremely high magnetic efficiency — the woofers also allow for powerful magnetic operation. This results in a subwoofer that is efficient, powerful, and boasts high sensitivity.

## Glass Fibre Woofer Cone

With its woven glass fiber material, Clarion's speaker cones tout the type of rigidity that will stand up to the rigorous in-car environment. This material also produces little to no distortion because of its ability to prevent the cone from flexing during high input levels. The result is rich, full bass that harmoniously melds with tight, accurate music reproduction.

## In Phase Coaxial Design

A key component to experiencing natural sound imaging and staging is ProAudio's In Phase Coaxial Design. The tweeter's "In-Phase" configuration minimizes the phase differential between the woofer and tweeter, and prevents the time lag between high and low frequency sounds from being audible to the listener.

## Silk Dome Tweeters

By incorporating silk into its soft dome tweeters, Clarion provides you with a velvety-smooth, delicate and open treble performance. Blending the suppleness and a level of stiffness that provides your sound system with superior detail, these silk soft dome tweeters can sense minute signals even at low input levels. This revolutionary design also provides ProAudio's soft dome tweeters with a frequency response in excess of 80kHz/120kHz.

## Dual Neodymium Magnet for Tweeter

For superb sound reproduction, ProAudio tweeter utilizes a Dual Neodymium magnet, which boasts extremely high magnetic energy — approximately 10 times that of typical ferrite magnets. With a magnetic influx density that far surpasses conventional speakers, the neodymium magnet also reduces magnetic distortion and touts high-energy efficiency.

## Strontium Magnet

There's a reason why Clarion's speaker systems add superior dimension to your music without compromising sound. Equipped with a highly conductive Strontium magnet, Clarion's speaker systems tout a magnetic flux density that is significantly higher than conventional ferrite magnets. This is especially important when matching Clarion's speaker systems with a digital source.

## Mica Injection Polypropylene Cone

By blending mica particles into the polypropylene material injected into the molded cones, Phase1 speakers remain rigid under intense power, ensuring distortion-free performance. This is especially important when the speakers are matched with a digital source. (SRR1615, SRR6915, SRC4615, SRC5715)

## Metallized Mica Injection Polypropylene Cone

Injection cone use a metallized polypropylene compound to provide the lightness and rigidity demanded of today's speakers. Even when fielding fast transients — characteristic of digital sources — Phase1

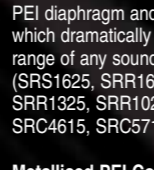


SRC925)

speakers generate superior dynamic response and crystal clear sound with very low distortion. (SRS1625, SRR1635, SRR1627, SRR1325, SRR1027, SRR6935,

## Metallized PEI Balanced Drive Tweeter

Because of its superior physical properties that result in clearer output, polyether imide boasts high rigidity, high durability and high resistance to extreme heat. That's why Clarion's has out-fitted its Phase1 Balanced Drive tweeters with an integrated



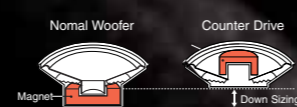
## Metallized PEI Cone Mid-range and Tweeter

Clarion's metallized PEI tweeter cone is impervious to heat and other ambient conditions prevalent inside a vehicle. This metallized cone creates an ultra-lightweight diaphragm, resulting in high efficiency and very fast dynamic response. (SRR6935, SRR6915)

## Counter Drive System in the SRV303 Powered Subwoofer

Providing you with the flexibility you need to get dynamic bass performance without sacrificing a lot of space, Clarion's incorporates its proprietary Counter-Drive system into its SRV303 Powered Subwoofer. This exclusive system is a method of mounting the driver magnet on the lid side of the woofer cone, allowing the 8" woofer to fit into its slim, compact body.

Counter Drive Structure



Top Magnet: Powerful Dual-Neodymium Magnet  
Top Plate  
Inner Molded Frame  
Spring for Variable Angle Mounting  
High-Precision Finish Aluminum Outer Case  
Bottom Plate  
Coated Silk Diaphragm for Extremely High Frequency / 120kHz  
Metallized Diaphragm Protector  
CCAW Voice-Coil with Heat-Resistant Kapton Bobbin  
Bottom Magnet: Powerful Dual-Neodymium Magnet

## New materials and technologies embodying the capability to reproduce digital sources in the digital age.

The suppleness and tightness that comes from the Silk Tweeter Diaphragm, as well as the synergy of the Subwoofer's Paper Composite Cone that offers sharp and powerful bass expression and the Stamped Aluminum Frame that combines excellent rigidity and damping characteristics... All of these

reproduce sounds true to the source, just like a musical instrument in the hands of a musician. And to quickly respond to the high information capacity needs of the digital age, Clarion's speaker lineup features new

materials and new technologies, including Metallized Mica Injection Polypropylene Cones with their light weight and high rigidity, and newly restructured PEI Balanced Drive Tweeters. Once your system is upgraded with these speakers, the moment you turn on the power you will be whisked away to a sound environment like you have never experienced before.

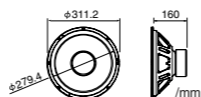
# Transmitting emotion with sharp realism and rich reverberations, just like a fine musical instrument.

**SW12X NEW**

**12" SINGLE VOICE COIL SUBWOOFER**



- Paper Composite Cone
- Foam/Rubber Composite Surround
- 4 Ohm Heat Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Magnet
- Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Aluminium Stamped Farnie
- Chrome-Plated Connector
- 600W Maximum Music Power
- Frequency Response: 20Hz-1.5kHz

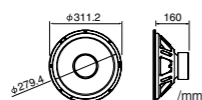


**SW10X NEW**

**10" SINGLE VOICE COIL SUBWOOFER**



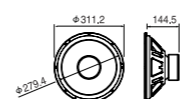
- Paper Composite Cone
- Foam/Rubber Composite Surround
- 4 Ohm Heat Resistant Voice Coil
- Rear Vented Pole Piece
- Large Strontium Ferrite Dual Magnet
- Rubber Magnet Cover
- For Small Sealed or Small Vented Design Maximum Power
- Aluminium Stamped Farnie
- 600W Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



**SRW1285 NEW**

**12" DUAL VOICE COIL SUBWOOFER**

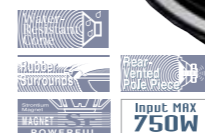
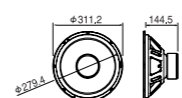
- Polypropylene Woofer Cone
- Foam/Rubber Composite Surround
- Dual 4 Ohm Heat Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Magnet
- Customer Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- 750W of Maximum Power Handling
- Chrome-Plated Connector
- Frequency Response: 20Hz-1.5kHz



**SRW1245 NEW**

**12" SINGLE VOICE COIL SUBWOOFER**

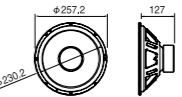
- Paper Composite Cone
- Foam/Rubber Composite Surround
- 4 Ohm Heat Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- 750W Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



**SRW1085 NEW**

**10" DUAL VOICE COIL SUBWOOFER**

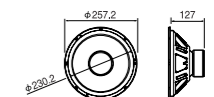
- Paper Composite Cone
- Foam/Rubber Composite Surround
- Dual 4 Ohm Heat Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Aluminium Stamped Farnie
- 600W Maximum Music Power
- Frequency Response: 20Hz-1.5kHz



**SRW1045 NEW**

**10" DUAL VOICE COIL SUBWOOFER**

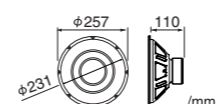
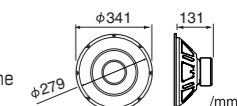
- Paper Composite Cone
- Foam/Rubber Composite Surround
- 4 Ohm Heat Resistant Voice Coil
- Rear Vented Pole Piece
- Dual Strontium Ferrite Dual Magnet
- Rubber Magnet Cover
- Perfect for Compact-Designed Sealed/Vented Boxes
- Aluminium Stamped Farnie
- 600W of Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz



**PA12-S**

**12" SINGLE VOICE COIL SUBWOOFER**

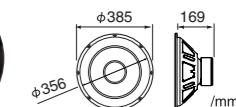
- Injected Polypropylene Titanium Coated Cone
- Single 50m/m heat resistant Voice Coil
- Rear-Vented Pole Piece
- Foam Rubber Surround
- Large 40 oz Strontium Ferrite Magnet
- Chromed Metal Basket
- Suitable for sealed and vented Installation
- 600W Maximum Music Power



**PA10-S**

**10" SINGLE VOICE COIL SUBWOOFER**

- Injected Polypropylene Titanium Coated Cone
- Single 50m/m heat resistant Voice Coil
- Rear-Vented Pole Piece
- Foam Rubber Surround
- Large 30 oz Strontium Ferrite Magnet
- Chromed Metal Basket
- Suitable for sealed and vented Installation
- 600W Maximum Music Power



**PA15-S**

**15" SINGLE VOICE COIL SUBWOOFER**

- Injected Polypropylene Titanium Coated Cone
- Single 50m/m heat resistant Voice Coil
- Rear-Vented Pole Piece
- Foam Rubber Surround
- Large 49 oz Strontium Ferrite Magnet
- Chromed Metal Basket
- Suitable for sealed and vented Installation
- 600W Maximum Music Power

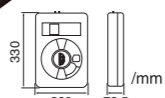


**SRV303**

**8" COUNTER DRIVE POWERED SUBWOOFER**

- Powered Subwoofer
- MIPP Cone Material
- 120W MAX. Output Power
- Frequency Response: 30-200Hz

**Sound Adjusting while Driving**  
The cockpit controller lets you easily adjust the sound characteristics from the driver's seat.



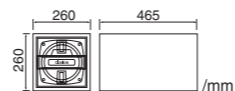
**2-Way Set-up for Flexible Installation**  
It is possible to install the subwoofer vertically or horizontally. This flexibility allows easy installation in a variety of vehicle environments.

**SRV202** Not available in Australia.

**8" AIR COMPRESSION POWERED SUBWOOFER**

- Powered Subwoofer
- MIPP Cone Material
- 120W MAX. Output Power
- Frequency Response: 20-200Hz

**Powerful Subwoofer with 120W Amplifier Built-in**  
Inside the deluxe leather type MDF enclosure is a 120W max. amplifier that supports a powerful sound driving experience. It drives the subwoofer system and delivers clear and strong bass sounds. Equipped with RCA/speaker level inputs, this sub-



woofer can be easily integrated using existing speaker connections.

► **SRS1685**

**16cm WOOFER AND 2cm TWEETER WITH CROSSOVER**

- 16cm Glass-Fibre Cone Woofer with Rubber Surround
- Powerful Strontium Magnet for Dynamic Bass Response
- 2cm Pure Silk Dome Tweeter with Dual-Neodymium Magnet
- 2-Way Mounting Tweeter (Variable Angle Flush Mounting/Surface Mounting)
- High Grade - 12dB/oct. 2way Crossover Network with Level Attenuator (0, -3dB)
- Extremely High Frequency Reproduction/120kHz
- Fs: 75Hz / Qts: 1.00 / Vas: 5.0 Litres
- 200W Music Peak Power
- GM & CHRYSLER Adaptor Included
- Frequency Response: 28~120,000 Hz
- Efficiency: 91dB



**In-Phase Coaxial Speakers**

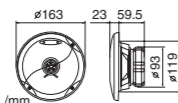


► **SRR1685**

**16cm IN PHASE COAXIAL 2-WAY SPEAKERS**



- 16cm Glass-Fibre Cone Woofer with Rubber Surround
- In-Phase Coaxial Design for Best Sound Quality and Imaging
- Powerful Strontium Magnet for Dynamic Bass Response
- 2cm Pure Silk Dome Tweeter with Dual-Neodymium Magnet
- Extremely High Frequency Reproduction/120kHz
- Fs: 75Hz / Qts: 1.00 / Vas: 5.8 Litres
- 180W Music Peak Power
- GM & CHRYSLER Adaptor Included
- Frequency Response: 30~120,000Hz
- Efficiency: 90dB

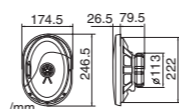


► **SRR6985**

**15 X 23cm IN PHASE COAXIAL 2-WAY SPEAKERS**



- 15 X 23cm Glass-Fibre Cone Woofer with Rubber Surround
- In Phase Coaxial Design for Best Sound Quality and Imaging
- Powerful Strontium Magnet for Dynamic Bass Response
- 2.5cm Pure Silk Dome Tweeter with Neodymium Magnet
- Extremely High Frequency Reproduction/80kHz
- Fs: 45Hz / Qts: 0.61 / Vas: 43.0 Litres
- 280W Music Peak Power
- Frequency Response: 25~80,000 Hz
- Efficiency: 92dB

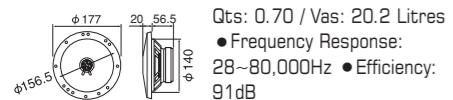


► **SRX1784**

**16.5cm IN-PHASE COAXIAL 2-WAY SPEAKERS**



- 16.5cm Glass-Fibre Cone Woofer
- 2 cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- 80kHz Extremely High Frequency Reproduction
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 200W Music Peak Power
- Fs: 70Hz / Qts: 0.70 / Vas: 20.2 Litres
- Frequency Response: 28~80,000Hz
- Efficiency: 91dB

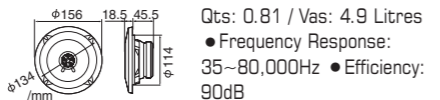


► **SRX1384**

**13cm IN-PHASE COAXIAL 2-WAY SPEAKERS**



- 13cm Glass-Fibre Cone Woofer
- 2cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- 80kHz Extremely High Frequency Reproduction
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 160W Music Peak Power
- Fs: 85Hz / Qts: 0.81 / Vas: 4.9 Litres
- Frequency Response: 35~80,000Hz
- Efficiency: 90dB

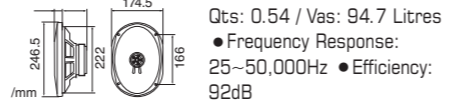


► **SRX6984**

**15 X 23cm IN-PHASE COAXIAL 2-WAY SPEAKERS**



- 15 X 23cm Glass-Fibre Cone Woofer
- 2.5cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- 50kHz Extremely High Frequency Reproduction
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 280W Music Peak Power
- Fs: 45Hz / Qts: 0.54 / Vas: 94.7 Litres
- Frequency Response: 25~50,000Hz
- Efficiency: 92dB



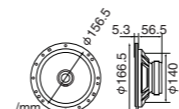
**Custom Fit Speakers**



► **SRC1773**

**CUSTOM FIT 16.5cm COAXIAL 2-WAY SPEAKERS**

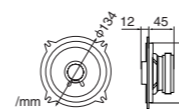
- 16.5cm Glass-Fibre Cone Woofer
- 2cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 200W Music Peak Power
- Frequency Response: 28~80,000Hz
- Efficiency: 91dB



► **SRC1373**

**CUSTOM FIT 13cm COAXIAL 2-WAY SPEAKERS**

- 13cm Glass-Fibre Cone Woofer
- 2cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 160W Music Peak Power
- Frequency Response: 40~80,000Hz
- Efficiency: 91dB

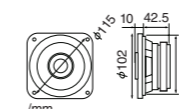


► **SRC1074**

**CUSTOM FIT 10cm COAXIAL 2-WAY SPEAKERS**



- 10cm Glass-Fibre Cone Woofer
- 2cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 120W Music Peak Power
- Frequency Response: 40~80,000Hz
- Efficiency: 90dB

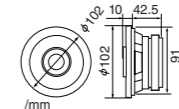


► **SRC1073**

**CUSTOM FIT 10cm COAXIAL 2-WAY SPEAKERS**



- 10cm Glass-Fibre Cone Woofer
- 2cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 120W Music Peak Power
- Frequency Response: 40~80,000Hz
- Efficiency: 90dB

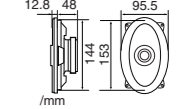


► **SRC4673**

**CUSTOM FIT 10 X 13cm COAXIAL 2-WAY SPEAKERS**



- 10 X 13cm Glass-Fibre Cone Woofer
- 2cm Pure Silk Dome Tweeter with Neodymium Magnet
- Powerful Strontium Magnet
- Super Heat-Resistant Voice Coil and Polyimide Bobbin
- Butyl-Rubber Surround
- Dolby Digital/dts Ready
- 120W Music Peak Power
- Frequency Response: 40~80,000Hz
- Efficiency: 91dB

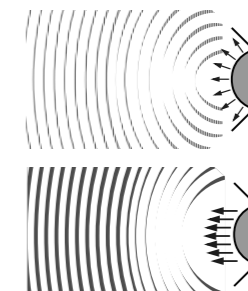


**Dome Tweeter for Wide Sound Dispersion**

The soft dome tweeter diaphragms used in Clarion Sound Explore Series deliver a much wider sound dispersion over conventional cone diaphragms. These dome tweeters use pure silk-cloth diaphragms to achieve



excellent dynamics with the ability to reproduce highs of 80 kHz, as well as the responsiveness to recreate subtle nuances. The voice coils in the tweeters are wound around heat-resistant polyimide bobbins to handle high-powered input signals over prolonged periods of time — ideal for extended play of digital sources such as DVD.



Spherical wave emitted from the soft dome diaphragm

Spherical wave emitted from a typical dome diaphragm

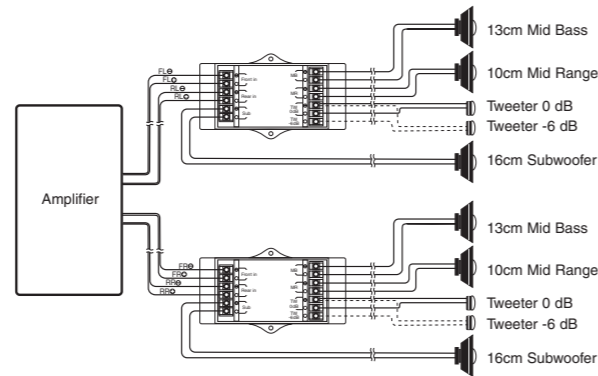
## 4-way Component System



### SCM400

#### 4-WAY COMPONENT SPEAKER SYSTEM

- 16cm Black Powder Coated Kevlar Cone Woofer
- 13cm Black Powder Coated Kevlar Cone Mid Bass
- 10cm Black Powder Coated Kevlar Cone Mid Range
- 2cm Silk Soft Dome Tweeter with Neodymium Magnet
- Super Heat-Resistant Kapton Voice Coil
- Rubber Surround
- 3-Way Passive Crossover
- 160W Music Peak Power



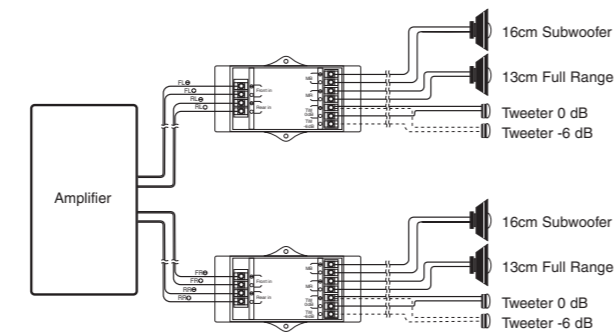
## 3-way Component System



### SCM300

#### 3-WAY COMPONENT SPEAKER SYSTEM

- 16cm Black Powder Coated Kevlar Cone Woofer
- 13cm Black Powder Coated Kevlar Cone Full Range
- 2cm Silk Soft Dome Tweeter with Neodymium Magnet
- Super Heat-Resistant Kapton Voice Coil
- Rubber Surround
- 3-Way Passive Crossover
- 160W Music Peak Power



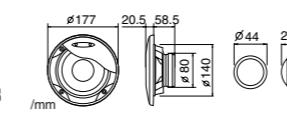
## Component Systems



### SRS1725

#### 16.5cm 2-WAY COMPONENT SYSTEM

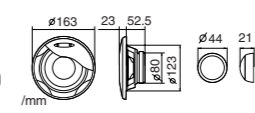
- 16.5cm Metallised MIPP Cone Woofer
- 2.5cm Metallised PEI Balanced-Drive Tweeter
- 2-Way Mounting Tweeter (Surface/Flush)
- Powerful Strontium Magnet for Dynamic Bass Response
- In-Line -6dB/oct Crossover Network
- 180 W Music Peak Power
- Frequency Response: 28~35,000Hz
- Efficiency: 91dB



### SRS1625

#### 16cm 2-WAY COMPONENT SYSTEM

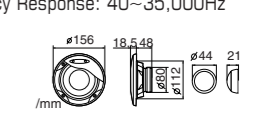
- 16cm Metallised MIPP Cone Woofer
- 2.5cm Metallised PEI Balanced-Drive Tweeter
- 2-Way Mounting Tweeter (Surface, Flush)
- Powerful Strontium Magnet for Dynamic Bass Response
- In-Line -6dB/oct Crossover Network
- 180W Music Peak Power
- GM & CHRYSLER Adaptor Included
- Frequency Response: 30~35,000Hz
- Efficiency: 91dB



### SRS1325

#### 13cm 2-WAY COMPONENT SYSTEM

- 13cm Metallised MIPP Cone Woofer
- 2.5cm Metallised PEI Balanced-Drive Tweeter
- 2-Way Mounting Tweeter (Surface/Flush)
- Powerful Strontium Magnet for Dynamic Bass Response
- In-Line -6dB/oct Crossover Network
- 180W Music Peak Power
- Frequency Response: 40~35,000Hz
- Efficiency: 90dB



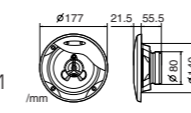
## Phase 1 Speakers



### SRR1735

#### 16.5cm MULTIAXIAL 3-WAY SPEAKERS

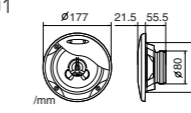
- 16.5cm Metallised MIPP Cone Woofer
- 2.5cm Metallised PEI Balanced-Drive Mid-Range & 0.8cm Dome Tweeter
- Powerful Strontium Magnet for Dynamic Bass Response
- 200W Music Peak Power
- Frequency Response: 28~32,000Hz
- Efficiency: 91 dB



### SRR1725

#### 16.5cm COAXIAL 2-WAY SPEAKERS

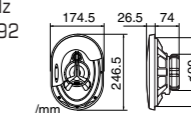
- 16.5cm Metallised MIPP Cone Woofer
- 2.5cm Metallised PEI Balanced-Drive Tweeter
- Powerful Strontium Magnet for Dynamic Bass Response
- 180W Music Peak Power
- Frequency Response: 28~30,000Hz
- Efficiency: 91 dB



### SRR6935

#### 15 x 23cm MULTIAXIAL 3-WAY SPEAKERS

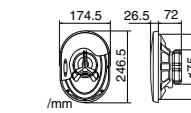
- 15 x 23cm Metallised MIPP Cone Woofer
- 6.6cm Metallised PEI Cone Mid-range & 1.6cm Dome Tweeter
- Powerful Strontium Magnet for Dynamic Bass Response
- 250W Music Peak Power
- Frequency Response: 28~32,000Hz
- Efficiency: 92 dB



### SRR6915

#### 15 x 23cm COAXIAL 2-WAY SPEAKERS

- 15 x 23cm Metallised MIPP Cone Woofer
- 6.6cm Metallised PEI Cone Tweeter
- Powerful Strontium Magnet for Dynamic Bass Response
- 200W Music Peak Power
- Frequency Response: 28~30,000Hz
- Efficiency: 92dB





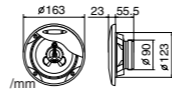
## Phase 1 Speakers



### SRR1635

#### 16cm MULTIAXIAL 3-WAY SPEAKER

- 16cm Metallised MIPP Cone Woofer • 3cm Metallised PEI Balanced-Drive Mid-Range & 0.8cm Dome Tweeter • Powerful Strontium Magnet for Dynamic Bass Response • 200 W Music Peak Power • GM & CHRYSLER Adaptor Included
- Frequency Response: 30~32,000Hz
- Efficiency: 91dB



### SRR1627

#### 16cm COAXIAL 2-WAY SPEAKER

- 16cm Metallised MIPP Cone Woofer • 3cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response • 180W Music Peak Power • GM & CHRYSLER Adaptor Included
- Frequency Response: 30~30,000Hz • Efficiency: 91dB



### SRR1615

#### 16cm COAXIAL 2-WAY SPEAKER

- 16cm MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response
- 160W Music Peak Power • GM & CHRYSLER Adaptor Included • Frequency Response: 30~30,000Hz • Efficiency: 91dB



### SRR1027

#### 10cm COAXIAL 2-WAY SPEAKER

- 10cm Metallised MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response • 120W Music Peak Power • Frequency Response: 45~30,000Hz • Efficiency: 90dB



**Metallised Mica Injection Polypropylene Cone**  
Injection cone use a metallised polypropylene compound to provide the lightness and rigidity demanded of today's speakers. Even when fielding fast transients — characteristic of digital sources — Phase1 speakers generate superior dynamic response and crystal clear sound with very low distortion. (SRS1625, SRR1635, SRR1627, SRR1325, SRR1027, SRR6935, SRC925)

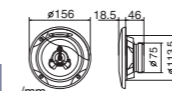
**Metallised PEI Balanced Drive Tweeter**  
Because of its superior physical properties that result in clearer output, polyether imide boasts high rigidity, high durability and high resistance to extreme heat. That's why Clarion's has outfitted its Phase1 Balanced Drive tweeters with an integrated PEI diaphragm and voice coil bobbin, which dramatically improves the dynamic range of any sound system. (SRS1625, SRR1635, SRR1627, SRR1325, SRR1027, SRC925, SRR1615, SRC4615, SRC5715)



### SRR1335

#### 13cm MULTIAXIAL 3-WAY SPEAKER

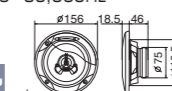
- 13cm Metallised MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Mid-Range & 0.8cm Dome Tweeter • Powerful Strontium Magnet for Dynamic Bass Response • 160W Music Peak Power
- Frequency Response: 40~32,000Hz • Efficiency: 91dB



### SRR1325

#### 13cm COAXIAL 2-WAY SPEAKER

- 13cm Metallised MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response • 140W Music Peak Power • Frequency Response: 40~30,000Hz • Efficiency: 91dB



### SRH205

#### 2cm TWEETER

- 2cm Metallised PEI Balanced-Drive Tweeter • Powerful Neodymium Magnet • 2-Way Mounting Tweeter (Variable Angle Flush Mounting, Surface Mounting) • In-Line -6dB/oct. Crossover Network
- 170W Music Peak Power • Frequency Response: 2,500~35,000Hz • Efficiency: 90dB



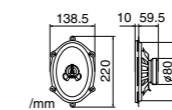
## Custom Fit Speakers



### SRC5715

#### 13 X 18cm COAXIAL OEM SPEAKER

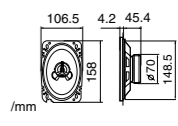
- Designed for Direct OEM Replacement • 13 x 18cm MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response • 140W Music Peak Power • 15 x 20cm FORD & MAZDA Adaptor Included
- Frequency Response: 35~30,000Hz • Efficiency: 91dB



### SRC4615

#### 10 X 15cm COAXIAL OEM SPEAKER

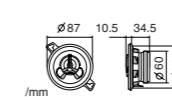
- Designed for Direct OEM Replacement • 10 x 15cm MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response • 100W Music Peak Power • Frequency Response: 45~30,000Hz • Efficiency: 91dB



### SRC925

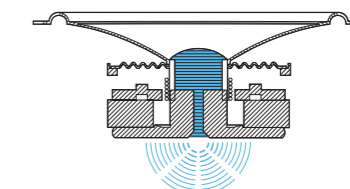
#### 9cm COAXIAL OEM SPEAKER

- Designed for Direct OEM Replacement • 9cm Metallised MIPP Cone Woofer • 2.5cm Metallised PEI Balanced-Drive Tweeter with Neodymium Magnet • Powerful Strontium Magnet for Dynamic Bass Response • 60W Music Peak Power • Frequency Response: 60~30,000Hz • Efficiency: 89dB



**Strontium Magnet**  
There's a reason why Clarion's speaker systems add superior dimension to your music without compromising sound. Equipped with a highly conductive Strontium magnet, Clarion's speaker systems tout a magnetic flux density that is significantly higher than conventional ferrite magnets. This is especially important when matching Clarion's speaker systems with a digital source.

**Rear-Vented Pole Piece**  
Touting an innovative design that prevents pressure from building up inside the dust cap, Clarion's equips its Phase1 speakers with an air vent located to the rear of the pole piece. This not only prevents the voice coils from overheating



Multimedia/Source Units Features

		MULTIMEDIA				SOURCE UNITS											
		VRX756VD	VXZ756	TB851P/853W	DB346MPV	HX-D2	DXZ956MC	DXZ856MP	DXZ756MC	DXZ656MP	DXZ556MP	DB456MC	DB356MP	DB256	DB156	ADB341MP	
		DVD Multimedia Station with Touch Panel Control	DVD/CD/MP3/WMA Receiver / CeNET Control	8-inch Wide Colour LCD TV	CD/MP3/VCD Receiver	CD/MP3/WMA Receiver / CeNET & Touch Panel Control	CD/MP3/WMA Receiver / CeNET & Touch Panel Control / MUSIC CATCHER	CD/MP3/WMA Receiver / CeNET & Touch Panel Control	CD/MP3/WMA Receiver / CeNET Control / MUSIC CATCHER	CD/MP3/WMA Receiver / CeNET Control	CD/MP3/WMA Receiver / CeNET Control	CD/MP3/WMA Receiver / MUSIC CATCHER	CD/MP3 Receiver	CD Receiver	CD Receiver	CD/MP3/Cassette Receiver	
Multi-media	Fully Motorised Wide Screen Colour LCD	7-inch		8-inch													
	-pixel display	336,960		336,960			38,400	38,400	7,680	7,680							
	Screen Resolution of	1440 x 234		1440 x 234			400 x 96	400 x 96	160 x 48	160 x 48							
Source	Touch Panel Control with Soil Resistant Finish	●					●	●									
	2 Zone Entertainment	●															
	Music Catcher Digital Recorder Built-in						●		●		●						
	Single Play DVD Mechanism plays: DVD Video, CD Audio, VCD	●	●														
	Plays MP3 and WMA Encoded CDs	●	●				●	●	●	●	●	●					
	Plays MP3 Encoded CDs	●			●								●			●	
	Plays CD-R/RW	●	●		●	●	●	●	●	●	●	●	●	●	●	●	
	Full Logic Cassette with Auto Reverse																●
	Auto Reverse																●
	Sound Make	AC Processor IV with Anti-Distortion Filter						●									
Anti-Distortion Filter								●	●								
5.1-channel Dolby Pro Logic / Dolby Digital AC3 / dts decoder			●														
Dolby Pro Logic II							●										
Built-in DSP for Time Alignment, Seat Position, Virtual Space Enhancer						Digital Time Alignment	●										
3-Band Parametric EQ		●				5-Band	●										
2-Band Parametric EQ			Z-Enhancer Plus					●	●	Z-Enhancer Plus	Z-Enhancer Plus						
Z-Enhancer EQ					●							●	●	●	●	●	
3-Band Graphic EQ													●	●	●	●	
Built-in adjustable High Pass Crossovers for Front/Rear/Centre Channels: Through/50Hz/80Hz/120Hz						●	●	●	●	●	●						
Audio	Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz		●			●	●	●	●	●							
	Magna Bass EX	●	●		●						●	●	●	●	●	●	
	24-Bit D/A Converter	●	Burr-Brown			Burr-Brown	●	●	●	●	●	●	●	●	●	●	
	High Power	53W x 4	52W x 4		50W x 4	—	53W x 4	53W x 4	53W x 4	53W x 4	53W x 4	52W x 4	51W x 4	51W x 4	51W x 4	50W x 4	
	2 Zone Control	●															
	Shock Proof Memory (45sec.)						●		●			●					
	4-Volt/6ch Gold Plated RCA Line Level Output					Max 8V / 8ch	●	●									
	6ch RCA Line Level Output	●	●						●	●							
	4ch RCA Line Level Output				●						●						
	2ch RCA Line Level Output			●								●	●	●	●	●	
Appearance	Built-in Amplifier Bypass Circuit (=AMP Canceller)	●	●				●	●	●	●	●	●	●	●	●	●	
	Stainless Faceplate						●	●									
	Aluminium Faceplate				●				●	●							
	728 Variable Color LCD and 728 Variable Color Buttons (12 presets and 3 users)								●	●							
	Optimedia Display (Touch Panel Control)						●	●									
	Full Color Full Dot LCD	●		●			●	●									
	Auto Dimmer						●	●									
	Retractable Rotary Volume Control								●	●	●						
	Rotary Volume Control		●		●	●	●	●	●	●	●	●	●	●	●	●	
	Screen Saver with User-Programmable Message Information		●						●	●	●	●					
Others	Adjustable Display Contrast		●					●	●	●	●						
	LCD with Spectrum Analyzer							●	●	●	●					●	
	Motorised Detachable Control Panel						●	●	●	●							
	Flip-Down Detachable Control Panel													●		Flip-Down only	
	CD Text, CD Titling, Station Titling	●	●			CD Text only	●	●	●	●	●	●	●	●	●	●	
	IR Remote Control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Radio Presets	●	18FM / 6AM	●	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	
	Detachable Control Panel with Blinking LED for Anti-Theft	18FM / 6AM						●	●	●	●						
	Detachable Control Panel		●		●							●	●	●	●		
	Partially Detachable Control Panel																
Extention	CeNET Control of :	●															
	DVD Changer	●				●	●	●	●	●							
	TV tuner	●	●	●		●	●	●	●	●							
	Dolby Digital/dts 5.1ch Processor	●															
	6-Disc CD Changer	●	●			●	●	●	●	●							
	Fibre Optical Output for Use with Dolby Digital/dts 5.1ch Processor	●															
	Video Input	●		2ch													
	A/V Input	1+TV+DVD A/C		1ch													
Other Features	Video Output	1ch	2ch	1ch (CCA623)	1ch												
	Adjustable AUX Input	1ch	2ch			4ch (2ch x 2)	2ch	2ch	2ch	2ch	2ch						
	AUX input	—														2ch	
	Others	● Full-Loading ● No Hide-away		● Trinity Motion System		● 96 kHz Sampling ● Silver-Coated 6N RCN Cable ● Copper-Plated Chassis											

**CD Magazines**



**CAA-397-900**  
Spare 6-CD Magazine  
• For DCZ625, DC625, DCZ625V, VCZ625

**iPod Cable**

**CCC-649** NEW  
iPod Connecting Cable  
• For VRX756VD

**iPod Interface**

**EA1251** NEW  
CeNET iPod Interface

**Spare DCP**

Visual Model	DCP Number	Visual Model	DCP Number
<b>VRX756VD</b>	DCP-534-800	<b>VRX746VD</b>	DCP-494-800
<b>VXZ756</b>	DCP-536-800	<b>VXZ646</b>	DCP-470-800
Audio Model	DCP Number	Audio Model	DCP Number
<b>DXZ956MC</b>	DCP-538-800	<b>DXZ946MP</b>	DCP-490-800
<b>DXZ856MP</b>	DCP-540-800	<b>DXZ846MC</b>	DCP-471-800
<b>DXZ756MP</b>	DCP-513-800	<b>DXZ746MP</b>	DCP-487-800
<b>DXZ656MP</b>	DCP-520-800	<b>DXZ646MP</b>	DCP-488-800
<b>DXZ556MP</b>	DCP-522-800	<b>DXZ546MP</b>	DCP-489-801
<b>DB456MC</b>	DCP-526-800	<b>DB346MP</b>	DCP-472-800
<b>DB356MP</b>	DCP-505-800	<b>DB246</b>	DCP-473-800
<b>DB256</b>	DCP-506-800		
<b>DB156</b>	DCP-528-800		

**Remote Controls**



**RCB-147-600**  
Steering Remote Control  
• For VRX756VD, VRX935VD, VXZ756, DXZ956MC, DXZ856MP, DXZ756MC, DXZ656MP, DXZ556MP, DB456MC, DB356MP, DB346MPV, DB256, DMZ637MP, ADZ625, ADX6655z, AX610, AX430



**RCB-164**  
Remote Control  
• For VRX935VD, VRX746VD, VRX835, VRX610P, DXZ946MP, DXZ846MC, DXZ746MP, DXZ646MP, DXZ546MP, DMZ637MP, ADZ625, ADX6655z, ADX5655z, AXZ610, DB346MP, DB246



**RCB-172** NEW  
Remote Control  
• For VXZ756, DXZ956MC, DXZ856MP, DXZ756MC, DXZ656MP, DXZ556MP, DB456MC, DB356MP, DB346MPV, DB256

**RCA Transfer Cable**



**CCA-389**  
Mini 8-pin (DIN) to RCA Transfer Cable

**CCA-623**  
RCA Transfer Cable for TB851P/TB853W  
• 1-ch RCA (L/R/V) input, 1-ch RCA video output

**TV Antennas**



**ZCA-404**  
4-Way Diversity Antenna



**ZCB-303**  
Window-Type 2-Way Diversity Antenna  
• Cable length: 4 m



**ZCP104**  
4-Way Amplified Diversity Inside Window Film TV Antenna for TTX7501z/TTX7503z/TTX754



**ZCP-100**  
Whip and Window Type 4-Way Diversity Antenna



**EA-1060A**  
Antenna Booster

**Optical Cables**



Model No	Terminal Shape		Length
	Out	In	
<b>DCA-005</b>	VRX935VD/VRX756VD/VCZ625 (New)	DVH940 (New)	5 m
<b>DCA-006</b>	DCZ625 (Old)	DVH940 (New)	5 m
<b>DCA-007</b>	VRX935VD/VRX756VD/VCZ625 (New)	DPH910, DV9755z(Old)	5 m
<b>DCA-008</b>	VRX935VD/VRX756VD/VCZ625 (New)	DVH940 (New)	1.5 m

**CeNET Cables**



**CCA-519**  
CeNET Branch Cable: 1 m



**CCA-520**  
CeNET Extension Cable: 2.5 m

**CCA-521**  
CeNET Extension Cable: 0.6 m

**Noise Filters**



**NSA-131-200**  
Alternator Noise Filter  
• Cuts alternator-induced engine noise. For max. 10A alternators.



**NSA-132-200**  
Alternator Noise Filter  
• Cuts alternator-induced engine noise. For max. 30A alternators.



**NSA-133-200**  
Power-Driven Parts Noise Filter  
• Eliminates noise caused by electric motors such as wipers, washer or heater.



**NSA-134-200**  
Electric Switching Noise Filter  
• Eliminates electric switching noise produced by electric fuel injection systems or when turn indicators or stop lights operate.



**NSA-135-200**  
Ignition Noise Reduction Filter  
• Eliminates buzzing or crackling produced by the car ignition.

**Multimedia Centres**

Model	VRX756VD	VRX935VD	VXZ756
Screen Size (W x H), mm	154.0 x 87.0 (7-inch)	154.0 x 87.0 (7-inch)	
Display Type	Transparent-type TN liquid crystal display	Transparent-type TN liquid crystal display	
Drive Principle	TFT (Thin Transistor) active matrix display	TFT (Thin Transistor) active matrix display	
Number of Pixels	336,960	336,960	
VRC Video Input	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	
VRC Audio Input	130 ± 60 mVrms (input impedance 10 kΩ or more)	130 ± 60 mVrms (input impedance 10 kΩ or more)	
Frequency Bands			
FM: (MHz) 0.05 MHz steps	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0
AM: (kHz) 9 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629
FM Usable Sensitivity (dBf)	9	9	9
FM 50 dB Quieting Sensitivity (dBf)	15	15	15
FM Alternate Channel Selectivity (dBf)	70	70	70
FM Stereo Separation @ 1 kHz (dB)	35	35	35
FM Stereo Freq. Resp. @ ±3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000
Useable Discs	DVD video disc	DVD video disc	DVD video disc
Frequency Response (Hz)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)
Distortion	0.01	0.01	0.02
Wow/Flutter (WRMS)	Below measurable limits	Below measurable limits	Below measurable limits
S/N Ratio (dB) 1 kHz			90
Frequency Response (Hz)	20 to 20,000 (+1 dB/-1 dB)	20 to 20,000 (+1 dB/-1 dB)	20 to 20,000 (+1 dB/-1 dB)
Dynamic Range (dB) 1 kHz			
Harmonic Distortion (%)	0.01	0.01	0.02
Power Output (DIN45324, +B = 14.4 V)	31W x 4	31W x 4	27W x 4
Maximum Power Output	53W x 4	53W x 4	52W x 4
Dimensions (W x H x D), mm	178 x 50 x 165	178 x 50 x 165	178 x 50 x 160
Hide-away unit (W x H x D), mm		178 x 37.5 x 209	
Weight (kg)	2.4	2.3	1.6
Power Consumption	4.0 A (at 1 W)	4.0 A (at 1 W)	less than 15A
Power Requirement	14.4 V DC (10.8 - 15.6 V)	14.4 V DC (10.8 - 15.6 V)	14.4 V DC (10.8 - 15.6 V)
Speaker Impedance	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)

**Colour LCD Monitors**

Model	OHM756VD	OHM153	OHM102	VMA753	VMA553	TB851P/853W	TB741P	TB742P	TB743W
Screen Size (W x H), mm	7-inch	15.3-inch	10.2-inch	7-inch	5.8-inch Wide	8-inch	7-inch Wide	7-inch Wide	7-inch Wide
Drive Principle	TFT active matrix	TFT active matrix	TFT active matrix	TFT active matrix	TFT active matrix	TFT (Thin Transistor) active matrix display	TFT active matrix	TFT active matrix	TFT active matrix
Number of Pixels	336,960	336,960	336,960	336,960	280,800	336,960 (234 x 1440)	336,960	336,960	336,960
VRC Video Input						1.0 ± 0.2 Vp-p (input impedance 75 Ω)			
Dimensions (W x H x D) mm	232 x 336 x 31.5	381 x 50.8 x 333.3	254 x 50.8 x 228.6	270 x 310 x 150 (W/Stand) 270 x 230 x 46 (W/O Stand)	188 x 130 x 36	178 x 50 x 188	178 x 50 x 160	178 x 50 x 160	178 x 50 x 160
Weight (kg)	1.6	1.45	1.2	1.1	1.1	2.2	1.8	1.8	1.8
Power Consumption	1.5 A	1.0 A	1.9 A	0.8 A	0.8 A	2.0A	3.0 A	3.0 A	3.0 A
Power Requirement	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	14.4 V DC (10.8 - 15.6 V)	14 V DC	14 V DC	14 V DC

**Radio CD Combinations**

Model	HX-D2	HX-D1	DRX9255EXL	DXZ956MC	DXZ856MP	DXZ756MC	DXZ656MP
Frequency Bands							
FM: (MHz) 0.05 MHz steps	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0
AM: (kHz) 9 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629
FM Usable Sensitivity (dBf)	9	9	12	9	9	9	9
FM 50 dB Quieting Sensitivity (dBf)	15	15	18	15	15	15	15
FM Alternate Channel Selectivity (dBf)	70	60	60	70	70	70	70
FM Stereo Separation @ 1 kHz (dB)	35		25	32	32	35	35
FM Stereo Freq. Resp. @ ±3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000
Wow/Flutter (WRMS)	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limits	Below measurable limits
S/N Ratio (dB)	112	110	110	100	100	100	100
Frequency Response (Hz)	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000
Dynamic Range (dB)	100	100	100	96	95	95	95
Harmonic Distortion (%)	0.003	0.005	0.005	0.006	0.01	0.01	0.01
Power Output (DIN45324, +B = 14.4 V)				31W x 4	31W x 4	31W x 4	25W x 4
Maximum Power Output				53W x 4	53W x 4	53W x 4	53W x 4
Dimensions (W x H x D), mm	178 x 50 x 178	178 x 50 x 182	178 x 50 x 168	178 x 50 x 160	178 x 50 x 160	178 x 50 x 155	178 x 50 x 155
DC/DC Converter (W x H x D)mm	175 x 43 x 99	186 x 28 x 71	186 x 28 x 71				
Remote Control (W x H x D), mm	52 x 125 x 12			43.4 x 112.7 x 12.5	43.4 x 112.7 x 12.5	43.4 x 112.7 x 12.5	43.4 x 112.7 x 12.5
Weight (kg)	1.7	1.6	1.8	1.7	1.7	1.6	1.6
Power Consumption: less than	1.4A	1.1A	1.1A	15A	15A	15A	15A
Speaker Impedance	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)

**Radio CD Combinations**

Model	DXZ556MP	DB456MC	DB356MP	DB346MPV	DB256	DB156
Frequency Bands						
FM: (MHz) 0.2 MHz steps	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0
AM: (kHz) 10 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629
FM Usable Sensitivity (dBf)	9	9	11	11	11	11
FM 50 dB Quieting Sensitivity (dBf)	15	15	17	17	17	17
FM Alternate Channel Selectivity (dBf)	70	70	75	75	75	75
FM Stereo Separation @ 1 kHz (dB)	35	35	35	35	35	35
FM Stereo Freq. Resp. @ ±3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000
Wow/Flutter (WRMS)	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits
S/N Ratio (dB)	100	100	100	100	100	100
Frequency Response (Hz)	5 to 20,000	5 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000
Dynamic Range (dB)	95	93	95	95	93	93
Harmonic Distortion (%)	0.01	0.03	0.01	0.01	0.01	0.03
Power Output (DIN45324, +B = 14.4 V)	25W x 4	25W x 4	25W x 4	25W x 4	25W x 4	25W x 4
Maximum Power Output	53W x 4	52W x 4	51W x 4	51W x 4	51W x 4	51W x 4
Dimensions (W x H x D), mm	178 x 50 x 155	178 x 50 x 155	178 x 50 x 152	178 x 50 x 152	178 x 50 x 152	178 x 50 x 155
DC/DC Converter (W x H x D)mm						
Remote Control (W x H x D), mm	43.4 x 112.7 x 12.5	43.4 x 112.7 12.5	43.4 x 112.7 12.5	43.4 x 112.7 12.5		
Weight (kg)	1.3	1.3	1.1	1.1	1.1	1.2
Power Consumption: less than	15A	15A	15A	15A	15A	15A
Speaker Impedance	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)

**AM/FM Cassette Centres**

Model	AX330	AB230	
<b>TUNER</b>	FM : (MHz) 0.05 MHz steps AM : (kHz) 9 kHz steps Wow & Flutter	87.5 ~ 108 531 ~ 1,629 0.08 %	87.5 ~ 108 531 ~ 1,629 0.08 %
<b>TAPE</b>	Metal Tape, No NR Metal Tape, 70 µs	58 dB 30 ~ 20,000 Hz	58 dB 30 ~ 20,000 Hz
<b>AUDIO</b>	Maximum Power Output	40 W x 4	40 W x 4
<b>GENERAL</b>	Weight Dimensions (W x H x D) mm	1.3 kg 178 x 50 x 155	1.3 kg 178 x 50 x 155

**2-DIN AM/FM CD/MP3/Cassette Centre**

Model	ADB341MP	
<b>TUNER</b>	FM : (MHz) 0.05 MHz steps AM : (kHz) 9 kHz steps Wow & Flutter Signal-To-Noise Ratio	87.5 ~ 108 531 ~ 1,629 0.06 % -
<b>TAPE</b>	Metal Tape, No NR Metal with Dolby B NR Frequency Response Metal Tape, 70 µs Wow & Flutter (unmeasurable) Signal-To-Noise Ratio	58 dB 67 dB - 30 ~ 20,000 Hz Below measurable limit 100 dB
<b>CD</b>	Frequency Response Dynamic Range Harmonic Distortion	10 ~ 20,000 Hz 95 dB 0.01 %
<b>AUDIO</b>	Maximum Power Output	50 W x 4
<b>GENERAL</b>	Weight Dimensions (W x H x D) mm	2.1 kg 178 x 100 x 156.5

**Processor**

Model	DVH940
Signal-To-Noise Ratio	95 dB (IEC-A, LPF22K)
Distortion	THD+N 0.01 % (LPF22K)
Separation	80 dB (LPF22K)
Input Sensitivity	RCA SENSE, LOW=2 V, MID=1.2 V, HIGH=0.6 V
Subwoofer Cut Off Frequency	50 Hz, 80 Hz, 120 Hz
Subwoofer Level Control	SP-GAIN, SUB-W → ±10 dB (1dB/step) A-MODE, SUB-W → -6 (18 dB)~+3dB (6 dB)
Max. Output Voltage	4 Vrms
Input Impedance	47 kΩ
Output Impedance	300 Ω
Power Requirement	NA
Parametric-EQ Number of Bands	3-BAND x 3 (Front/Rear/Centre)
Q	1 ~ 20 (5points)
<b>Equaliser Centre Frequency Range:</b>	
Front & Rear	20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k
Centre	Same as Front/Rear
Subwoofer	NA
Parametric-EQ Boost/Cut Range	±12 dB
Time Correction Control Range	Centre 0 ~ 5 ms (1 ms/step) Rear 0 ~ 15ms (1 ms/step)
Frequency Response	20 ~ 44,000 Hz (±1 dB)
Weight	0.95 kg
Dimensions (W x H x D) mm	230 x 25 x 170

**MP3 ID3 Tag**

MP3 decoding	Mpeg1 (ISO/IEC 11172-3)	Mpeg2 (ISO/IEC 13818-3)
Fs: 32 kHz, 44.1 kHz, 48 kHz Bit Rate: 64/80/96/112/128/160/192/224/256/320 kbps *1 VBA *4, *5		Fs: 16 kHz, 22.05 kHz, 24 kHz Bit Rate: 40/48/56/64/80/96/112/128/144/160 kHz *1 VBA *4, *5
Channel Mode	Joint Stereo, Stereo, Mono *3	
Folder structure	Parents-Child Sorting	
No. of folders	128	
No. of files	254	
No. of characters for folder display	16	
No. of characters for file display	28	
MP3 ID3 Tag Version Supported	Version 1.X, 2.X	
No. of characters for ID3 Tag Info.	28	
(Artist name, Album name & Title name)		

- \*1. For acceptable sound quality, a bit rate of 112 kbps or more is recommended.
- \*2. Depending on the used encoder, noise may occur at the beginning or end of the tune.
- \*3. Playable channel modes are joint stereo, stereo, and mono.
- \*4. Recommended bit rate for VBR is 64 kbps-320 kbps.
- \*5. For tunes recorded using VBR, the displayed track time may differ slightly from the actual length.

**DVD/VCD/CD Changers**

Model	VCZ625	DCZ625V	DC625	DCZ625
Wow/Flutter	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit
Signal-To-Noise Ratio	90 dB	105 dB	105 dB	105 dB
Frequency Response	20 ~ 20,000 Hz	5 ~ 20,000 Hz (±1 dB)	5 ~ 20,000 Hz (±1 dB)	5 ~ 20,000 Hz (±1 dB)
Dynamic Range	95 dB	95 dB	95 dB	95 dB
Harmonic Distortion	0.02 %	0.01 %	0.01 %	0.01 %
Weight	2.2 kg	1.7 kg	1.7 kg	1.7 kg
Dimensions (W x H x D) mm	230 x 83 x 183	225 x 63 x 167	225 x 63 x 167	225 x 85 x 167

**Amplifiers**

	APA4300HX	APA4320	APA2160
Continuous Power Output (20 ~ 20,000 Hz, 4 Ω)	4 x 75 W (4-ch. operation)	4 x 80 W (4-ch. operation)	2 x 80 W (2-ch. operation)
Max. Power Output	4 x 150 W	4 x 160 W	2 x 160 W
Frequency Response (Hz)	5 to 100,000 (-1 dB)	10 to 50,000 (+/- 1 dB)	10 to 50,000 (+/- 1 dB)
S/N Ratio at Min. Volume	112 dB	100 dB	100 dB
Power Consumption	48 A	37 A	19 A
Weight (kg)	5.0	3.9	2.7
Dimensions (W x H x D), mm	280 x 65 x 288	165 x 56 x 409	165 x 56 x 287
	APA450	APA250	DPX1200.1
Continuous Power Output (20 ~ 20,000 Hz, 4 Ω)	4 x 50 W	2 x 50 W	1 x 477 W
Max. Power Output	4 x 100 W	2 x 100 W	1 x 1200 W
Frequency Response (Hz)	10 to 50,000	10 to 50,000	10 to 50,000 (-3 dB)
S/N Ratio at Min. Volume	80 dB	80 dB	68 dB
Power Consumption	0.59 A	0.82 A	1.4 A
Weight (kg)	3.5	4.2	7.2
Dimensions (W x H x D), mm	277 x 61 x 334	277 x 61 x 259	275 x 60 x 484

**FEATURE ICONS**

**Multimedia/Main Units**

**DVD Video Playback**  
The unit is compatible with the DVD Video format so you can watch DVD software in your car.

**dts Control**  
Units with this logo are designed for connection and complete control of the external Clarion hide-away dts/Dolby Digital & Pro Logic II Decoders "DVH940" via CeNET.

**Dolby Pro Logic II**  
Dolby Pro Logic II enables superior surround sound and positioning compared to the former version of surround system. More sophisticated decoding process maximizes the effect of surround sound from the source encoded with Dolby surround. In addition to that, Dolby Pro Logic II is designed to get 5.1-channel sound effect from any 2-channel software, which means you can enjoy perfect surround sound even if the software is in conventional stereo recording. "Phantom mode" is also available in which quasi 5.1-channel sound field is reproduced from 4-speaker system without centre speaker.

**MP3/WMA**  
With decoders for both MP3 and WMA (Windows Media Audio™), you can play either type of ripped or downloaded audio file. Also supports ID3 Tag for display of metafile information. With digital compression, these formats enable up to 12 hours of music to be fit onto a single CD-R/RW while delivering CD-level quality.

**CD Text**  
When a CD Text compatible CD is played, the artist name and tracks recorded on the CD are shown on the LCD screen.

**Video CD Compatibility**  
Video CD can be played back on the unit.

**iPod**  
iPod Interface lets you easily connect your iPod portable music player for seamless enjoyment of your musical collection.

**Music Catcher System**  
Freely record, play and erase tunes using a built-in memory. It can store up to high quality music data files.

**CD-R/RW**  
Capability to play back CD-R/RW audio discs you have recorded at home.

**New Optimedia Display**  
Advanced human-machine interface that fuses high quality graphics and interactive touch-screen operation in an eye-catching design.

**Stainless Steel Faceplate**  
Faceplate is constructed of stainless steel material to add a clean, cool look to the main unit in a way that matches well with most car interiors.

**Aluminium Faceplate**  
Faceplate is constructed of aluminium material to add a clean, cool look to the main unit in a way that matches well with most car interiors.

**Touch Panel**  
It only touches it in the fingertip, and it is the indication vessel which makes most machine control possible.

**Variable Colour Display**  
This LCD display lets you mix RGB (Red/Green/Blue) levels to create the background colour (DXZ756MC, DXZ656MP). The control buttons on the faceplate automatically change colours to match the display.

**Message Information**  
On select main units, you can display your own customized messages up to 30-characters. Messages are displayed when the unit is turned on or off.

**Auto Dimmer**  
Automatically dims the displays brightness when the headlights are turned on so that the display is not a distraction during night time driving.

**Rotary Volume Control**  
Adjusting the volume is easily done since you do not need to take your eyes off the road when turning the knob, thus ensuring safety while driving. The rotary control also has a retractable feature found on some models with RRC symbol which allows you to retract the button when the system is not in use.

**Smart Control Key**  
One-finger easy, accessing the exact song you want to hear on a loaded CD has never been quicker or simpler.

**Codematic**  
Four digit PIN code can be set for security purpose. Once the system is activated, the unit cannot be turned on until correct PIN code is entered. The function can be disabled if it is unnecessary.

**Detachable Control Panel**  
To prevent theft and damage to your car entertainment system, the control panel can be detached from the unit and taken with you when leaving the car.

**5.1-Channel Surround**  
The unit is compatible with Dolby Digital and dts to support 5.1-channel audio. Comprised of five channels (Left, Right, Centre, Rear Left and Rear Right) plus a dedicated low-frequency channel for a sub-woofer, this system reproduces the sound of movies and music with "being there" reality.

**AC-Processor IV**  
DSP newly developed by Clarion's acoustic technology. In order to optimise the sound quality and filed balance, it incorporates various function such as ADF, VSE, Dolby Pro Logic II, 3-way Digital Crossover, Parametric EQ and Time alignment, being processed by single chip.

**Digital 3-way Crossover**  
Digitally splits up the frequency range into three bands, feeding each to a separate driver - woofer, midrange and tweeter - for accurate sound with less distortion.

**Time Alignment Control**  
Lets you easily adjust the time delay among the speakers to best suit your interior simply by choosing the type of your car.

**VSE (Virtual Space Enhancer)**  
Lets you digitally compensate for irregular reflection, polarization, and other acoustic problems that may accompany your car's interior.

**Anti-Distortion Filter**  
Eliminates phase distortion in high and low frequencies and emphasizes the natural frequency characteristics of the sound, for natural flat response and clear details.

**Z-Enhancer Plus**  
Powerful bass and a fresh, crystal-clear treble. Adjustment for 3 different sound settings can be made in easy steps.

**Z-Enhancer**  
Three types of sound quality patterns are pre-set for easy selection. Boost the bass only, the treble only, or both, with the level of boost adjustable by the user.

**Magna Bass EX**  
Boosts the bass range in the vicinity of 50 Hz by nearly 10 dB, so the bass comes through loud and clear even if you're listening at low volume.

**Low-Pass and High-Pass Filters**  
A filter that passes signals below a cut-off frequency (LPF) or above a cut-off frequency (HPF), used to optimize the signal for high or low frequency reproduction.

**24-bit D/A Converter**  
Clarion's D/A converter requires the 16-bit data from CDs into 24-bit data for the delicate representation of rich musical tones.

**Loop Back Circuit**  
Allows the built-in amplifier to amplify the signal from an external unit. Possible to connect the DVH940 for 5.1ch surround to enjoy DSP sound without an external amplifier.

**Parametric EQ**  
Lets you adjust the equalization of each frequency band independently for the front, centre, and rear speakers.

**2-Zone Entertainment**  
Function that allows people in the front and back seats to enjoy separate visual or audio entertainment sources.

**Subwoofer Control**  
All main units have a dedicated subwoofer level control to give your more control over your system's bass performance. This even includes a low-pass crossover which, when selected (50Hz/80Hz/120Hz selectable), turns the rear channel RCA line level outputs into dedicated subwoofer outputs.

**AMP Cancellor**  
Built-In Amplifier Bypass Circuit for clear sound.

**Shock Proof Memory**  
It is the function which a maximum 45-second data memory has sound that it is formed at the time of bad road running.

**Audio Output**  
All units with this logo have audio outputs for external amplifiers. Some units with 4V output logo have high 4V audio output for high-quality sound. In addition, some Clarion units have Non-fade output for Subwoofer, and also selectable Loop Back Circuit for hide-away dts/Dolby Digital & Dolby Pro Logic II Decoders DVH940.

**AUX Input**  
Accepts input signal from external unit.

**CeNET**  
CeNET is a high-speed network for complete control of your car multimedia system. With CeNET, you can control components over a single network and easily add new functionality to your car multimedia system by simply connecting CeNET-compatible components.

**Digital Optical Output**  
Building of a 5.1ch sound system which draws a definite sound figure in the car inside and to give should be made possible.

**DVD Easy Control**  
DVD Easy Control, coupled with CeNET components, allows the following possibilities: • Scene / Title FF / FB • Play / Pause • Volume control: General / Centre / Sub-woofer • Audio muting • Balance and Fader control

**TV Tuner Control**  
Unit with this logo can be connected with hide-away TV Tuners such as TTX7501z/7503z/754.

**CD Changer Control**  
A 6-disc CD changer can be controlled from the main unit.

**5.1-Channel Decoder Control**  
Allows direct control of all functions on DVH940 5.1ch Digital Surround Processor.

**MOS-FET**  
MOS-FET transistors in the amplifier offer wide frequency response with minimal distortion, and dissipate less heat for high quality energy-efficient sound.

**High Performance Power IC**  
Vertical power transistors are used in the amplifiers to provide high-efficiency, low-distortion output. Great for digital sources with their wide dynamic range.

**High Power**  
With its powerful amplifier IC, Clarion has significantly raised the power limit in the realm of car audio. This improves dynamics and eliminates distortion across the entire frequency spectrum.

**Speakers**

**Water-Resistant Cone**  
Water-resistant cones prevent sound-quality deterioration caused by moisture. Door mounting is possible without further protection.

**Aluminium-Coated Polypropylene Cone**  
Clarion's high-rigidity, lightweight polypropylene cones have an ideal internal loss for woofers. The high input allows you to enjoy powerful digital audio with exceptional music quality.

**Metalized MIPP Cone**  
Injection molded diaphragms use polypropylene compound with mica particles blended. Metalized MIPP cone provides additional rigidity while maintaining lightness for superior dynamic response.

**Glass Fibre Cone**  
Featured on our high-end HX series and In-Phase coaxial series.

**Mica Polypropylene Mixed Injection Cone**  
These injection molded diaphragms use polypropylene with mica particles blended in, with a molecular structure that radiates from the inside out, to attain the lightness and rigidity necessary to create speakers with superior response even to the fast transients of digital sources.

**Rubber Surrounds**  
The rolled edge of the diaphragm provides superior response, while its butyl material is highly durable and moisture resistant. The result is a special rubber surround that cuts distortion and further improves linearity.

**PEI Balanced Drive**  
The novel design features an integrated PEI diaphragm and voice coil bobbin. This design reduces the mass, and given the optimum induction conditions in the magnetic gap, the result is a dramatic improvement in dynamic range.

**Dual 4-Ohm Voice Coil**  
Clarion's systems use dual voice coils to deliver perfect playback of large-amplitude bass. These coils also provide high sensitivity and excellent performance for digital audio and other large input sounds.

**Neodymium Magnet**  
While extremely compact, the neodymium magnet also has very high magnetic energy (B<sub>Hmax</sub>). The powerful magnetic field and minimum magnetic distortion deliver effortless sound.

**Rear-Vented Pole Piece**  
To prevent pressure from building up inside the centre cap and causing increased amplitude distortion, a vent is provided on the rear of the pole piece, resulting in completely smooth cone movement, which contributes to the open, airy sound of the speakers.

**Powerful Strontium Magnet**  
A high-conductivity magnet is used in Clarion's speaker systems to obtain an air-gap magnetic flux density significantly higher than that obtained from ferrite magnets. Combining this magnet with the heat-resistant voice coil results in speakers that are able to deliver powerful playback at large inputs with improved damping while maintaining the integrity of the digital source.

**Large Strontium Ferrite Magnet**  
Offers all the benefits of the strontium magnet, and boosts the sonic reproductive power by using a large sized Strontium Ferrite magnet in the driver.

**Variable Angle Tweeter in Coaxial Speakers**  
Unlike conventional 2-way speakers, these feature a tweeter that is adjustable for angle and can be aimed for precise high frequency imaging. When coaxial speakers are mounted in the most common door locations, the high frequencies are beamed at the driver and passenger's feet, reducing high frequency response and spatial imaging. By changing the angle so that the tweeter sends high frequencies to the listener's ears, high frequency response is increased, and spatial imaging is dramatically improved.

**Wide-Range 80kHz Silk Dome Tweeter / Wide-Range 120kHz Silk Dome Tweeter**  
Uses soft silk dome diaphragms and high-power magnets to achieve rich expressiveness. Offers up to 80kHz or 120kHz maximum reproduction for crystalline highs.

**Silk-Cloth Soft Dome Tweeter**  
Clarion's high-end tweeters use soft dome diaphragms laminated the suppleness

of silk, strengthened by the lamination layer, provides natural, finely detailed sound. These tweeters offer superb transient response, even at very low input levels, and can faithfully reproduce delicate pianissimo passages.

**Air Compression**  
The air pressure developed on the back side of the speaker is compressed within the cabinet and propelled forward through the rear duct.

**Counter Drive**  
With the driver mounted on the magnet side of the woofer cone, it enables a large caliber 20cm woofer to be fit inside a slim and compact body.

**Lead-Free Solder**  
Solder used in product manufacturing is lead-free to help protect the environment.

**Digital Ready**  
Featuring higher power handling, Clarion's Digital Ready speakers reproduce the wide dynamic range of Compact Discs and other digital media.

**Inline Network**  
Allows speaker output level adjustment in three steps (0dB/-6dB/-12dB).