

Y-Series



d&b audiotechnik ●■®

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d&b System reality

As the name implies a d&b audiotechnik system is not just a loudspeaker. Nor is it merely a sum of the components: loudspeakers, amplifiers, signal processors, networking, software and accessories. Right from the outset the d&b audiotechnik approach was to build integrated sound reinforcement systems

that actually are more than the combination of parts: an entirety where each fits all. Every element is tightly specified, precisely aligned and carefully matched to achieve maximum efficiency. For ease of use, all the user-definable parameters are incorporated, allowing the possibility of adjustment, either

directly, via remote control surfaces, or integrated within wider networks. Neutral sound characteristics leave the user all the freedom needed to realize whatever the brief. At the same time d&b offers finance, service and support, a knowledgeable distribution network, education and training as well as technical

information, so the same optimal acoustic result is achieved consistently by every system anywhere, at any time. In reality: the d&b System reality.



The **Y-Series** loudspeakers are designed with a clear perspective to provide flexible and configurable solutions, even in the most arduous sound reinforcement situations. Performing arts, conferences, religious events and live shows; applications all demanding strict qualities in the performance, look and feel of a loudspeaker. On one side the Y-Series provides adept small to

medium scale, stand alone or distributed point source solutions, whereas on the other hand the wide spectrum of midsized line array potential is inherited from its bigger brothers, the V-Series and J-Series. Flexible horizontal dispersion characteristics combined with either rotatable horns or innovative custom waveguides ensure constant directivity over a wide bandwidth.

Dipolar driver arrangements deliver accurate dispersion control, while a deep LF performance is derived from the bass-reflex design. Three point rigging systems are integrated into the arrayable cabinets, even the cardioid subwoofer, these, together with ground stacking options, present an abundance of opportunity for deployment. The **Yi loudspeakers** differ only

slightly in cabinet construction, finish and mounting hardware.

They are intended for permanently installed performance spaces where the specification is rider driven by the artist or mix engineer's preferences. Both the Yi cabinets and mounting hardware can be properly colour matched to interior designs and weather protected for climatically hostile environments.

The Y-Series

The **Y7P** and **Yi7P** as well as the **Y10P** and **Yi10P** point source loudspeakers both feature the same dipolar arrangement with two 8" drivers centered around a 1.4" HF compression driver mounted on a CD horn with 75° x 40° and 110° x 40° dispersion characteristics respectively. A rotatable horn enables deployment in either orientation, whilst an innovative bass-reflex and port design gives an increased LF performance. The high performance omnidirectional **B6** and **Bi6-SUB** feature a single 18" long excursion driver, intended for ground stacked applications only.

The **Y8** and **Y12** and the installation specific **Yi8** and **Yi12** line array modules also share the same driver arrangement, with two 8" dipolar mounted drivers and a 1.4" HF driver combined with a central wave transformer. The advanced bassreflex and port arrangement delivers full bandwidth capabilities with an extended LF output. Due to the dipolar arrangement of the LF drivers, a broadband, horizontal directivity control is maintained down to approximately 500 Hz for the different dispersion options, 80° for the Y8 and 120° for the Y12. The arrayable, cardioid **Y** and **Yi** subwoofers both house two long excursion neodymium drivers, powered by a single amplifier channel. The 18" and 12" drivers arranged in an integrated cardioid setup, avoid unwanted energy behind the system.

All Y loudspeakers are finished with a PCP (Polyurea Cabinet Protection) coating that provides mobile systems with protection against impact and resistance to the adverse effects on cabinets caused by changing ambient outdoor conditions. The Yi cabinets feature an impact resistant paint finish; Weather Resistant and Special Colour options are available.

The d&b software offering aides the entire system setup process. The d&b ArrayCalc simulation software allows the virtual optimization of loudspeaker line arrays, point source and column loudspeakers as well as subwoofers and their adjustment to venue conditions. The d&b NoizCalc immission modelling software uses international standards to model noise immission from d&b loudspeaker systems. NoizCalc takes data from ArrayCalc and calculates the sound propagation towards the far field. The complete system configuration simulated in ArrayCalc is assimilated by the d&b R1 Remote control software into an intuitive graphical user interface to manage the amplifiers, and loudspeakers, from anywhere in the venue. The R90 touchscreen remote control provides quick, reliable, and effortless operation of day-to-day functions of a preconfigured d&b system, without needing expert level knowledge of audio.



Y7P, Y10P loudspeaker



Yi7P, Yi10P loudspeaker



B6 subwoofer



Bió subwoofer



Y8, Y12 loudspeaker



Yi8, Yi12 loudspeaker



Y subwoofer



Yi subwoofer



R90 touchscreen remote control

A wide range of tools and data files are available to support the planning process using external tools. For enhanced acoustic simulations, all loudspeakers offer EASE files. The planning process using BIM (Building Information Modelling) is supported with Revit files available for all loudspeakers and accessories, creating accurate project data and visualisation. Additionally, our 2D and 3D CAD data is usable in most common planning tools. Venue data created by SketchUp can be imported to ArrayCalc using the d&b sketchup plua-in to facilitate system design.

d&b amplifiers are specifically designed for use with d&b loudspeakers, and are at the heart of the d&b system approach. These devices contain extensive Digital Signal Processing capabilities to provide comprehensive loudspeaker management and specific switchable filter functions to precisely target the system response for a wide variety of applications. The four channel **D80** amplifier is intended for both mobile and installation applications requiring the highest Sound Pressure Levels. The installation specific four channel **30D** amplifier is intended for permanent integration within venues which require medium to high Sound Pressure Levels. These amplifiers all provide extensive user-definable equalization containing two 16-band equalizers with parametric, notch, shelving and asymmetric filters as well as delay capabilities of up to 10 seconds.

The d&b Audio network bridges interface between audio transport networks and AES3 digital audio signals while also providing distribution of Ethernet control data. The **D\$10** supports Dante networks, while the **D\$20** is used for the open standards-based Milan protocol.

The **D\$100 Signal Engine** is based on a specialized rack mount 3 RU audio processor with Audinate Dante networking. It provides a 64 x 64 audio matrix with level and delay adjustments at all cross points. Additional software modules provide dynamic source positioning and emulated acoustics functions.

An extensive range of standardized transport solutions is offered for the Y-Series, consisting of touring cases, touring carts as well as transport lids. Complete cabling structures including multicores and breakouts are also available, alongside extensive mounting options. Amplifier Touring rack assemblies can be provided for either three D20 amplifiers, three D80 amplifiers, or six D80 amplifiers. The DS10 Audio network bridge can be supplied in these fully equipped system racks, which also house mains power distribution units, connector interfaces and all internal cabling.



D80 amplifie



30D amplifier



DS10 Audio network bridge



D\$20 Audio network bridge



DS100 Signal Engine

The Y7P loudspeaker The Yi7P loudspeaker

Y7P/Yi7P loudspeaker

The compact, 2-way passive Y7P loudspeaker and Yi7P loudspeaker feature two 8" drivers in a dipole arrangement with a 1.4" compression driver mounted onto a rotatable CD horn. The Yi7P is the installation version of the Y7P loudspeaker and differs only in cabinet construction, finish and mounting hardware. Sophisticated horn geometry combined with the advanced bass-reflex port design delivers full bandwidth capabilities with an extended LF output. These point source, high performance cabinets offer 75° horizontal directivity matched with a vertical dispersion of 40°; the horn can be rotated by 90° to enable horizontal orientation.

The Y7P/Yi7P provide a broad variety of deployment possibilities, especially when used as a stand-alone full range system, or combined with other elements from the Y-Series, either ground stacked or flown.

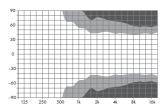
The loudspeaker cabinets are constructed from marine plywood, the Y7P has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Yi7P has an impact resistant paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill. The Y7P cabinet incorporates a pair of handles whilst M10 threaded inserts are provided for attaching d&b rigging hardware.

System data

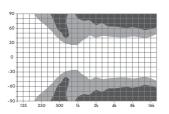
Frequency response (-5 dB standard)	59 Hz - 18 kHz
Frequency response (-5 dB CUT mode)	. 118 Hz - 18 kHz
Max. sound pressure (1 m, free field) ¹	
with D6/10D	132 dB
with 30D/D20	135 dB
with D80	137 dB
Input level (100 dB SPL/1 m)	– 17 dBu

Loudspeaker data

Nominal impedance8 ohms
Power handling capacity (RMS/peak 10 ms)400/1600 W
Nominal dispersion angle (h x v)
Components 2 x 8" driver with neodymium magnet
1.4" exit compression driver
passive crossover network
Connections Y7P2 x NLT4 F/M
optional 2 x NL4 or 2 x EP5
Connections Yi7P2 x NL4 and screw terminal block
Weight Y7P/Yi7P



Y7P and Yi7P horizontal dispersion characteristics²



Y7P and Yi7P vertical dispersion

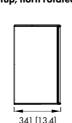
Y7P and Yi7P vertical dispersion

characteristics/horizontal setup.

characteristics²

horn rotated²

Y7P and Yi7P horizontal dispersion characteristics/ horizontal setup, horn rotated²

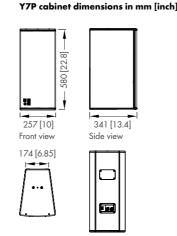


Front view

:



Side view



Yi7P cabinet dimensions in mm [inch]

The Y10P loudspeaker The Yi10P loudspeaker

Y10P/Yi10P loudspeaker

The compact, 2-way passive Y10P loudspeaker and Yi10P loudspeaker feature two 8" drivers in a dipole arrangement with a 1.4" compression driver mounted onto a rotatable CD horn. The Yi10P is the installation version of the Y10P loudspeaker and differs only in cabinet construction, finish and mounting hardware. Sophisticated horn geometry combined with the advanced bass-reflex port design delivers full bandwidth capabilities with an extended LF output. These point source, high performance cabinets offer 110° horizontal directivity matched with a vertical dispersion of 40°; the horn can be rotated by 90° to enable horizontal orientation.

The Y10P/Yi10P provide a broad variety of deployment possibilities, especially when used as a stand-alone full range system, or combined with other elements from the Y-Series, either ground stacked or flown.

The loudspeaker cabinets are constructed from marine plywood, the Y10P has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Yi10P has an impact resistant paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill. The Y10P cabinet incorporates a pair of handles whilst M10 threaded inserts are provided for attaching d&b rigging hardware.

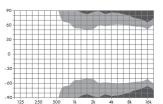
System data

Frequency response (-5 dB standard)59 Hz -	18	kHz
Frequency response (-5 dB CUT mode)118 Hz -	18	kHz
Max. sound pressure (1 m, free field) ¹		
with D6/10D	.131	l dB
with 30D/D20	.134	4 dB
with D80	.136	6 dB
Input level (100 dB SPL/1 m)	-17	dBu

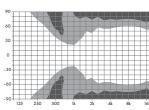
Loudspeaker data

Nominal impedance	8 ohms
Power handling capacity (RMS/peak 10 ms)	.400/1600 W
Nominal dispersion angle (h x v)	110° x 40°
Components2 x 8" driver with neod	dymium magnet
1.4" exit con	npression driver
passive cro	ossover network
Connections Y10P	.2 x NLT4 F/M
optional 2 x I	NL4 or 2 x EP5
Connections Yi10P 2 x NL4 and screw	v terminal block
Weight Y10P/Yi10P	18 kg (40 lb)

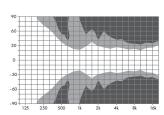
Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting ² Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB



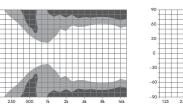
Y10P and Yi10P horizontal dispersion characteristics²



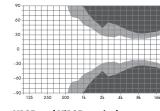
Y10P and Yi10P horizontal dispersion characteristics/



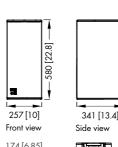
Y10P and Yi10P vertical dispersion characteristics²



horizontal setup, horn rotated²

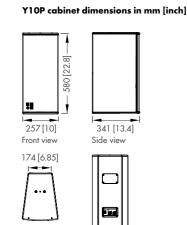


Y10P and Yi10P vertical dispersion characteristics/ horizontal setup, horn rotated









Yi10P cabinet dimensions in mm [inch]

Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting

² Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

The B6 subwoofer The Bió subwoofer

The Y7P, Y10P and B6 transport accessories

B6/Bi6 subwoofer

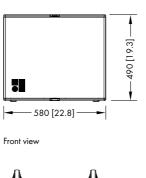
The B6-SUB and Bi6-SUB are high performance subwoofers designed for ground stacked applications, housing a long excursion 18" driver built into a bass-reflex design. The Bi6-SUB is the installation version of the B6 subwoofer and differs only in cabinet construction, finish and mounting hardware. When three or any multiple of three B6 or Bi6 subwoofers are used, they can be positioned in a Cardioid Subwoofer Array, achieving exceptional directivity control in lower frequencies and significantly reducing the energy radiating towards to the rear. The cabinets are constructed from marine plywood, the B6-SUB has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Bi6-SUB has an impact resistant paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The side panels of the B6-SUB incorporate two handles, whilst four wheels are mounted to the rear and the enclosure features two runners to protect the bottom panel from scratching. Two correspondingly shaped recesses are incorporated into the top panel of each B6-SUB cabinet to accept these runners, preventing cabinet movement when stacked. An M20 threaded flange in the top panel accepts the d&b Loudspeaker stand winder M20.

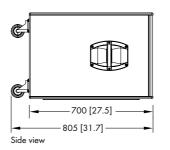
System data

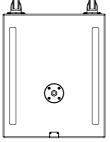
Frequency response (-5 dB standard)	3/ Hz - 140 Hz
Frequency response (-5 dB 100 Hz mode)	37 Hz - 110 Hz
Max. sound pressure (1 m, free field) ¹	
with D6/10D	128 dB
with 30D/D20	131 dB
with D80	134 dB

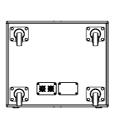
Loudspeaker data

Nominal impedance	8 ohms
Power handling capacity (RMS/peak 10 msec)	500/2000 W
Components	1 x 18" driver
Connections B6	2 x NLT4 F/M
optional 2 x N	NL4 or 2 x EP5
Connections Bi62 x NL4 and screw	terminal block
Weight B6/Bi641/38	kg (90/84 lb)

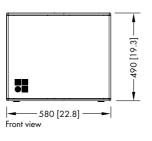


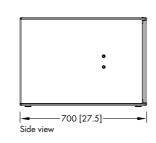


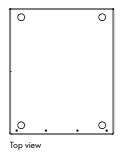


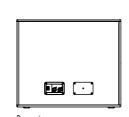


B6-SUB cabinet dimensions in mm [inch]



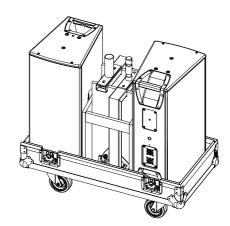






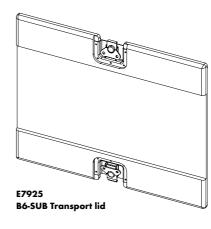
Bi6-SUB cabinet dimensions in mm [inch]





Touring case 2 x Y7P/Y10P

Dimensions (H x W x D): 775 x 812 x 417 mm 30.5 x 32 x 16.4 inch Net weight: 38 kg (84 lb)



The Y8 loudspeaker The Yi8 loudspeaker

The Y12 loudspeaker The Yi12 loudspeaker

Y8/Yi8 loudspeaker

The compact Y8 and Yi8 line array loudspeakers are designed for use in vertical columns. The 2-way passive design features two 8" drivers in a dipole arrangement and a centrally mounted 1.4" compression driver with a wave transformer. The Yi8 is the installation version of the Y8 loudspeaker and differs only in cabinet construction, finish and mounting hardware. Sophisticated horn geometry combined with the advanced bass-reflex port design delivers full bandwidth capabilities with an extended LF output. These high performance line array modules offer 80° horizontal directivity controlled down to 500 Hz.

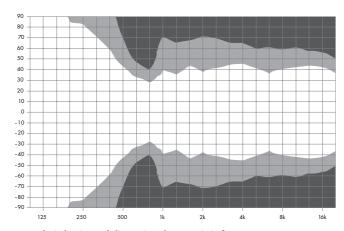
The mechanical and acoustical design enables vertical arrays of up to twenty four loudspeakers with vertical splay angles from 0° to 14° with a 1° resolution. It can be used in columns of purely Y8 loudspeaker or Yi8 loudspeaker or combined with Y12/Yi12 and/or Y-SUB/Yi-SUB cabinets.

The loudspeaker cabinets are constructed from marine plywood, the Y8 has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Yi8 has an impact resistant paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. Each side panel of the Y8 incorporates a handle while two additional recessed grips are provided at the rear. Three point rigging hardware is integrated into the loudspeaker enclosure.

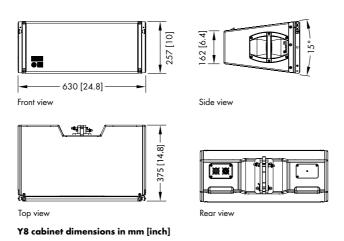
System data

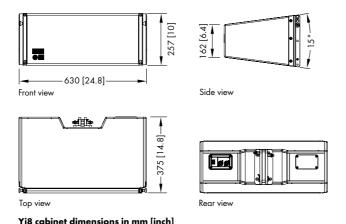
Frequency response (-5 dB standard)	54 Hz - 19 kHz
Frequency response (-5 dB CUT mode)	100 Hz - 19 kHz
Max. sound pressure (1 m, free field) ¹	
with D6/10D	134 dB
with 30D/D20	137 dB
with D80	139 dB

Loudspeaker data
Nominal impedance8 ohms
Power handling capacity (RMS/peak 10 ms)400/1600 W $$
Nominal dispersion angle (h)80°
Splay angle settings 0° - 14° (1° increment)
Components 2 x 8" driver with neodymium magnet
1.4" exit compression driver
passive crossover network
Connections Y82 x NLT4 F/M
optional 2 x NL4 or 2 x EP5
Connections Yi8 2 x NL4 and screw terminal block
Weight Y8/Yi8



Y8 and Yi8 horizontal dispersion characteristics²





Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting

Y12/Yi12 loudspeaker

The compact Y12 and Yi12 line array loudspeakers are designed for use in vertical columns. The 2-way passive design features two 8" drivers in a dipole arrangement and a centrally mounted 1.4" compression driver with a wave transformer. The Yi12 is the installation version of the Y12 loudspeaker and differs only in cabinet construction, finish and mounting hardware. Sophisticated horn geometry combined with the advanced bass-reflex port design delivers full bandwidth capabilities with an extended LF output. These high performance line array modules offer 120° horizontal directivity controlled down to 500 Hz.

The mechanical and acoustical design enables vertical arrays of up to twenty four loudspeakers with vertical splay angles from 0° to 14° with a 1° resolution. It can be used in columns of purely Y12 loudspeaker or Yi12 loudspeaker or combined with Y8/Yi8 and/or Y-SUB/Yi-SUB cabinets.

The loudspeaker cabinets are constructed from marine plywood, the Y12 has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Yi12 has an impact resistant paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. Each side panel of the Y12 incorporates a handle while two additional recessed grips are provided at the rear. Three point rigging hardware is integrated into the loudspeaker enclosure.

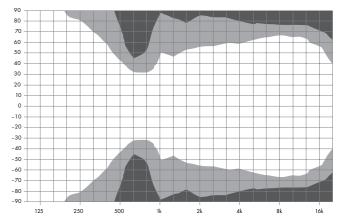
System data

Frequency response (-5 dB standard)	54 Hz - I	9 kHz
Frequency response (-5 dB CUT mode)	100 Hz - 1	9 kHz
Max. sound pressure (1 m, free field)1		
with D6/10D	1	34 dB
with 30D/D20	1	37 dB
with D80	1	39 dB

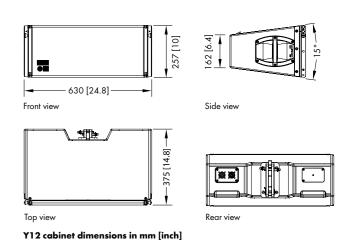
Loudspeaker data

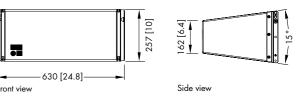
at -6 dB and -12 dB

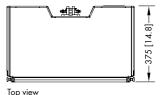
Nominal impedance	8 ohms
Power handling capacity	(RMS/peak 10 ms)400/1600 W
Nominal dispersion angle	(h)120°
Splay angle settings	0° - 14° (1° increment)
Components	2 x 8" driver with neodymium magnet
	1.4" exit compression driver
	passive crossover network
Connections Y12	2 x NLT4 F/M
	optional 2 x NL4 or 2 x EP5
Connections Yi12	2 x NL4 and screw terminal block
Weight Y12/Yi12	20 kg (44 lb)

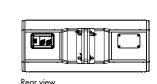


Y12 and Yi12 horizontal dispersion characteristics²









Yi12 cabinet dimensions in mm [inch]

² Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting $^{2}\,\,$ Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars)

The Y subwoofer The Yi subwoofer

The Y8, Y12 and Y-SUB transport accessories

Y/Yi subwoofer

The Y-SUB and Yi-SUB are actively driven cardioid subwoofers powered by a single amplifier channel. The Yi-SUB is the installation version of the Y-SUB and differs only in cabinet construction, finish and mounting hardware. They house two long excursion neodymium drivers in an integrated cardioid setup, an 18" driver in a bass-reflex chamber facing to the front and a 12" driver in a two chamber bandpass design radiating towards

The cardioid dispersion pattern resulting from this arrangement avoids the distribution of energy behind the system, providing the greatest accuracy of low frequency reproduction and reducing the energy dispersed into unwanted areas. The Y-SUB and Yi-SUB are fitted with three point rigging hardware and can be flown in columns of purely Y or Yi subwoofers, at the top of a Y/Yi array or used in a ground stacked setup.

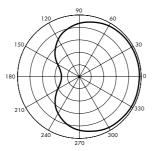
The cabinets are constructed from marine plywood, the Y-SUB has an impact and weather protected PCP (Polyurea Cabinet Protection) finish while the Yi-SUB has an impact resistant paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam, whilst the side panels of the Y-SUB incorporate four handles with four wheels mounted to the rear.

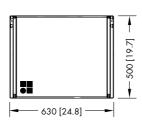
System data

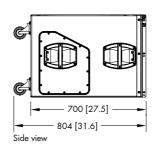
Frequency response (-5 dB standard)	39 Hz - 140 Hz
Frequency response (-5 dB 100 Hz mode)	39 Hz - 110 Hz
Max. sound pressure (1 m, free field) ¹	
with D6/10D	128 dB
with 30D/D20	131 dB
with D80	134 dB

Loudspeaker data

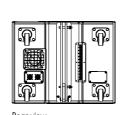
•
Nominal impedance8 ohms
Power handling capacity (RMS/peak 10 ms)600/2400 W
Splay angle settings
Components1x 18" driver with neodymium magnet
1x 12" driver with neodymium magnet
Connections Y-SUB
optional 2 x NL4 or 2 x EP5
Connections Yi-SUB2 x NL4 and screw terminal block
Weight Y-SUB/Yi-SUB52/49 kg (115/108 lb)



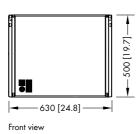


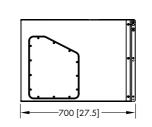




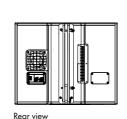


Y-SUB cabinet dimensions in mm [inch]







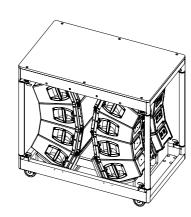


Yi-SUB cabinet dimensions in mm [inch]



Touring cart 4 x Y8/Y12

Dimensions (H x W x D): 1200 x 600 x 730 mm 47.3 x 23.7 x 29 inch Total weight: 130 kg (285 lb) Max. top load: 100 kg (220 lb)



E7471 Touring cart 8 x Y8/Y12

1200 x 1200 x 730 mm 47.3 x 47.3 x 29 inch Total weight: 230 kg (510 lb) Max. top load: 200 kg (440 lb)



E7472 Touring case 4 x Y8/Y12

Dimensions (H x W x D): 1271 x 724 x 626 mm 50 x 28.5 x 24.6 inch Net weight: 61 kg (135 lb)

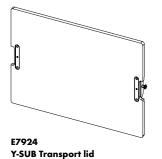
Touring case 2 x Y Flying frame Dimensions (H x W x D): 962 x 724 x 628 mm $38 \times 28.5 \times 24.7$ inch

Net weight: 51 kg (112 lb)









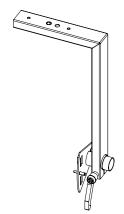
¹ Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting

The Y7P, Y10P and B6-SUB mounting accessories

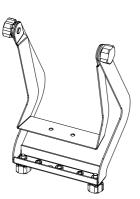
The Y7P, Y10P and B6-SUB mounting examples

Safety approval

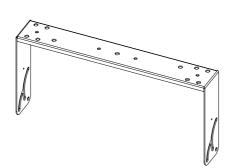
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



Z5397 YP Swivel bracket



Z5399 YP Mounting bracket



Z5398 YP Horizontal bracket



Z5012 Pipe clamp for TV SpigotFor a tube diameter up to 70 mm/2.75"



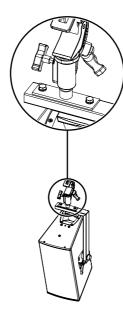
Z5010 TV Spigot with fixing plate



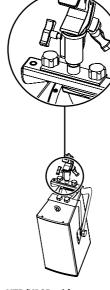
Z5024 Loudspeaker stand adapter



Z5049 Flying pin 8mm¹



Y7P/Y10P with
Z5397 YP Swivel bracket
Z5010 TV Spigot with fixing plate
Z5012 Pipe clamp



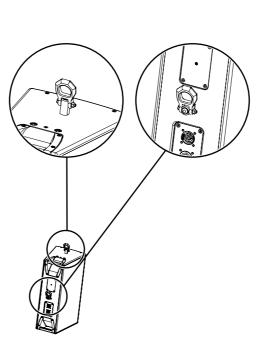
Y7P/Y10P with
Z5399 YP Mounting bracket
Z5010 TV Spigot with fixing plate
Z5012 Pipe clamp



Y7P/Y10P with Z5399 YP Mounting bracket Z5024 Loudspeaker stand adapter



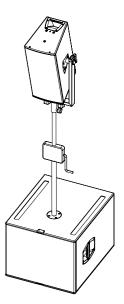
Y7P/Y10P with
Z5398 YP Horizontal bracket
Z5010 TV Spigot with fixing plate
Z5012 Pipe clamp



Y7P/Y10P with 2 x Z5049 Flying pin 8mm



Y7P/Y10P with
Z5397 YP Swivel bracket
Z5009 Loudspeaker stand with winder
Z5024 Loudspeaker stand adapter



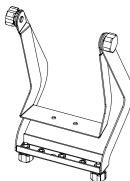
Y7P/Y10P with
Z5397 YP Swivel bracket
Z5013 M20 pole with winder
Z5024 Loudspeaker stand adapter

The Yi7P, Yi10P and Bi6-SUB mounting accessories

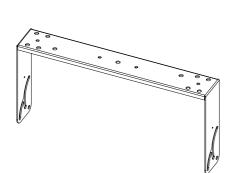
The Yi7P, Yi10P and Bi6-SUB mounting examples

Safety approval

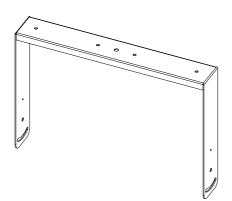
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



Z5399 **YP Mounting bracket**



Z5398 **YP Horizontal bracket**



Z5389 **Bi6-SUB Horizontal bracket**



Z5010 TV Spigot with fixing plate



Pipe clamp for TV Spigot For a tube diameter up to 70 mm/2.75"



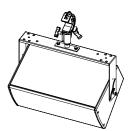
Loudspeaker stand adapter



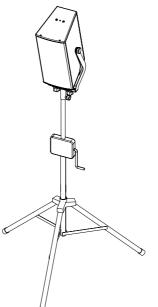
Yi7P/Yi10P with **Z5399 YP Mounting bracket Z5010 TV Spigot with fixing plate** Z5012 Pipe clamp



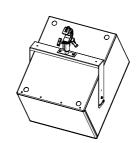
Yi7P/Yi10P with **Z5399 YP Mounting bracket** Z5024 Loudspeaker stand adapter



Yi7P/Yi10P with **Z5398 YP Horizontal bracket** Z5010 TV Spigot with fixing plate Z5012 Pipe clamp



Yi7P/Yi10P with **Z5399 YP Mounting bracket** Z5009 Loudspeaker stand with winder



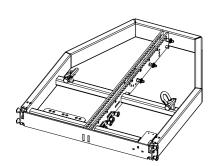
Bi6-SUB with **Z5389 Bió Horizontal bracket** Z5010 TV Spigot with fixing plate Z5012 Pipe clamp

The Y8/Yi8, Y12/Yi12 and Y/Yi-SUB rigging accessories

The Y8, Y12 and Y-SUB rigging examples

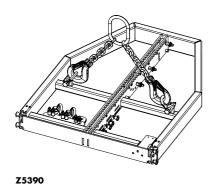
Safety approval

d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



Z5390 Y Flying frameFor a maximum of twenty four Y8/Y12/Yi8/Yi12 loudspeakers or

ten Y/Yi subwoofers



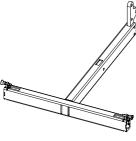
Y Flying frame
Supplied with
1 x Z5392 Y Safety chainset
2 x Y Load adapter
1 x Y Load adapter for rota clamp
2 x Front link



Z5394 Y Flying adapterFor a maximum of six Y8/Y12
loudspeakers; supplied with 1t Shackle



Z5393.000Yi Mounting frame top
For a maximum load equivalent to six
Yi8/Yi12 loudspeakers



Z5393.001 Yi Mounting frame bottom



Z5147 Rota clamp WLL: 500 kg (1100 lb) for a tube diameter up to 51 mm/2"



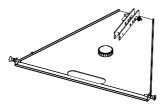
Z5392 Y Safety chainset



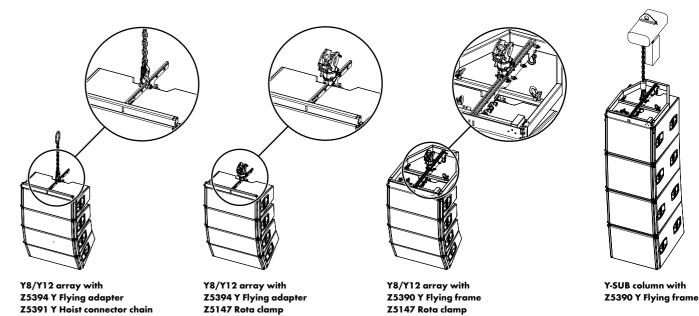
Z5391 Y Hoist connector chain

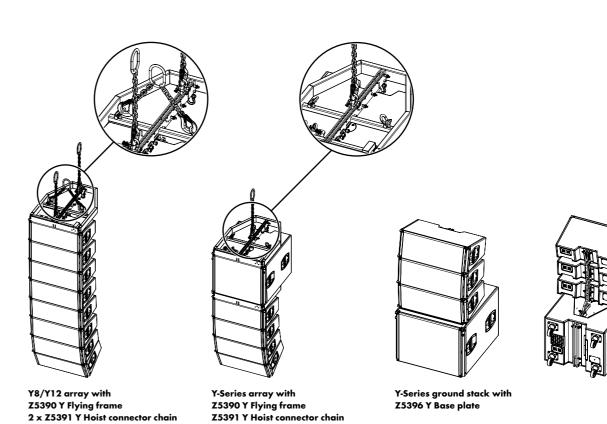


E6507 1t Shackle



Z5396 Y Base plate





Z5392 Y Safety chainset

The Yi8, Yi12 and Yi-SUB rigging examples

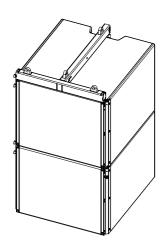
The Yi Weather Resistant, Special Colour and Custom solutions options

Safety approval

d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



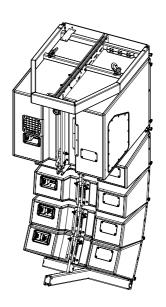
Yi8/Yi12 array with Z5393.000 Yi Mounting frame top



Yi-SUB column with Z5393.000 Yi Mounting frame top



Yi array with Z5390 Y Flying frame 2 x Z5393.001 Yi Mounting frame bottom



Weather Resistant (WR) option

The WR option provides an IP54 rating, and enables operation of loudspeakers in changing ambient conditions, with some loudspeakers able to achieve an IP55 rating. However it is not intended to enable permanent, unprotected operation of loudspeakers outdoors. Cabinets used outdoors even with the WR option should always be aimed either horizontally or with a downward tilt. All WR speakers will be delivered without a cable. An optional WR cable (Z5763.000 - H07-RN-F 2 x 2.5 mm² / AWG 13, Faston connector type 2 x 6.3 mm male) with a standard length of 5.5 m is available. Other length on request.

Special Colour (SC) option

The paint finish of all loudspeaker cabinets and most accessories can be executed in almost any custom colour in accordance with common colour tables. All rigging fittings at the rear of the cabinet, Front links and Locking pins remain in black. Other paint finishes such as metallic are available on request. The acoustically transparent foam fitted behind the rigid metal grill is also painted with the requested special colour.

Custom solutions (SVS and SWR) option

SVS (Variants For Stadiums) loudspeakers have no integral rigging components, but instead, have threaded inserts in their side panels. The cabinets will be mechanically supported by metal brackets specifically designed for the respective application by Custom solutions.

SWR (Sea Water Resistant) loudspeaker models are based on WR or SVS variants where available, and withstand outdoor operation in wet and acid or salty environments like on cruise ships or coastal locations. Other custom solutions are available upon request.

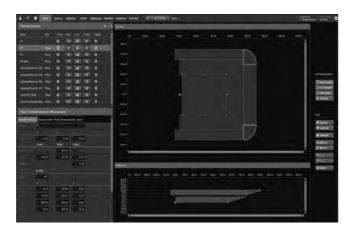
The d&b ArrayCalc simulation software

The d&b ArrayCalc simulation software is the prediction tool for d&b line arrays, column and point source loudspeakers as well as subwoofers. This is a comprehensive toolbox for all tasks associated with acoustic design, performance prediction, alignment, rigging and safety parameters. For safety reasons d&b line arrays must be designed using the d&b ArrayCalc simulation software. ArrayCalc is available as a native standalone application for both Microsoft Windows¹ (Win7 or higher) and Mac OS X² (10.7 or higher) operating systems. In combination with the d&b Remote Network, this can significantly reduce setup and tuning time in mobile applications and allows for precise simulations when planning installations. Listening planes can be defined in the venue tab, creating a three dimensional representation of any audience area in a given venue. This can also include balconies, side stalls, arenas, in the round scenarios or festivals. Special functions assist in obtaining accurate dimensions with laser distance finders and inclinometers.

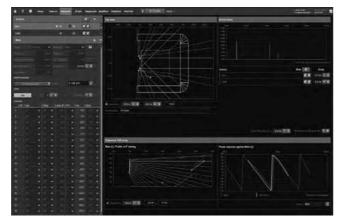
Simulation

26 d&b Y-Series

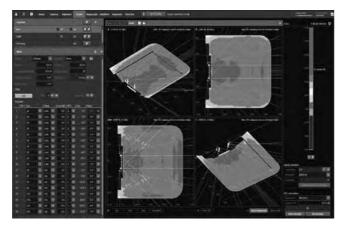
Up to forty flown arrays or subwoofer columns can be defined in a project file as single hangs or in pairs. A selection of d&b point source loudspeakers can also be fully integrated as well as a ground stacked SUB array consisting of up to eighty positions. All can be freely positioned according to their intended application, for example as main hang, outfill, nearfill or delay. Position, orientation, aiming and coverage details are displayed. Level over distance is calculated for each source with high resolution in real time, for either band limited or broadband input signals. The comprehensive simulation precisely models the actual performance of the system, taking into account input level, all system configuration options (such as CUT, CPL, HFC or INFRA), limiter headroom and air absorption. Acoustic obstacles, such as video screens, can be added to a model. Acoustic shadowing, whether by these obstacles, or a balcony overhand, is taken into consideration. The load status of all array rigging components is calculated accurately and displayed to determine whether a aiven array is within the load tolerance. Subwoofer array design is assisted by coverage and polar plot prediction. A specialized algorithm allows the user to specify subwoofer positions and a coverage angle, which is then converted into appropriate delay settings that result in the desired dispersion. The glianment tab enables different sources to be time aligned to one another, as well as showing arrival times and Sound Pressure Levels at a definable reference point on one of the audience areas. For alignment of the flown system with the ground stacked SUB array, the phase response of both the SUB array and a flown source is calculated at a definable reference point.



Venue



Alignment



3D Plot quad

Both simulations reflect changes in delay time to the single sources in real time. The d&b ArrayCalc simulation software is available at www.dbaudio.com, along with further information and video tutorials.

Prediction

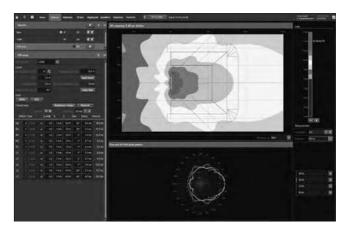
The level distribution resulting from the interaction of all active sources can be mapped onto the audience areas in a three-dimensional view, which can also be zoomed, rotated and exported as a graphics file. EASE and DXF data export capabilities are also available. A rigging plot with all necessary coordinates, dimensions and weights of arrays is generated for export and printing and a parts list, detailing all components required. The d&b ArrayCalc Viewer app presents this key information for positioning and flying a d&b audiotechnik loudspeaker system on a mobile device. Once the system has been designed, calculated and optimized, all relevant project information can be shared via email, AirDrop, or downloaded onto any iOS or Android device.

ArrayProcessing

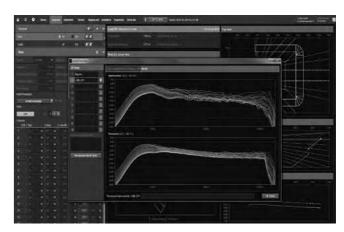
The optional ArrayProcessing function applies powerful filter algorithms to optimize the tonal (spectral) and level (spatial) performance of a line array column over the audience area defined by its mechanical vertical coverage angle. Within the d&b ArrayCalc simulation software, spectral and level performance targets over the listening areas can be defined while specific level drops or offsets can be applied to certain areas, to assign reduced level zones. ArrayProcessing applies a combination of FIR and IIR filters to each individual cabinet in an array to achieve the targeted performance, with an additional latency of only 5.9 ms. This significantly improves the linearity of the response over distance as well as seamlessly correcting for air absorption. In addition, ArrayProcessing employs the same frequency response targets for all d&b line arrays, to ensure all systems share a common tonality. This provides consistent sonic results regardless of array length or splay settings. The resulting coverage is enhanced with spectral consistency and defined level distribution, achieving more linear dispersion and total system directivity to cover longer distances or steep listening areas effectively.

R1 Remote Control Software

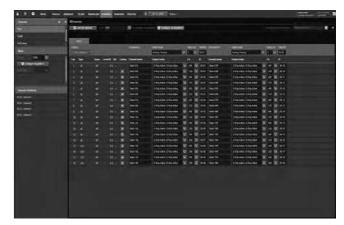
R1 uses the same project file created by ArrayCalc and generates an intuitive graphical user interface including complete details of the simulated system, loudspeakers, amplifiers, remote IDs, groups, ArrayProcessing data and all configuration information. This workflow removes the need to manually transfer data from one software program to the other.



Sources, SUB array



ArrayProcessing



Amplifiers

Microsoft Windows is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries

² Mac OS X is a trademark of Apple Inc., registered in the U.S. and other countries

The d&b NoizCalc immission modelling software

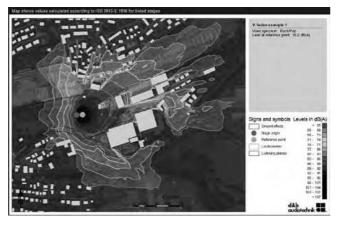
The d&b software uses international standards to model the far field noise immission from multiple complex and coherently emitting sources such as line arrays and subwoofer arrays. More and more, gaining permission and licenses to stage live open air events requires an official statement with a prediction of how noise could impact on the surrounding area. NoizCalc takes all complex loudspeaker data and a reference point from the d&b ArrayCalc simulation software and calculates the sound propagation and relative attenuation values towards the far field for a certain scenario with particular meteorological conditions for one or more d&b loudspeaker systems.

A 3D terrain map imported from Google Maps or Street View displays the calculated immission on the areas surrounding the audience listening zones. This visual representation shows the actual system performance in the far field, enabling users to optimize for listeners while satisfying local noise restrictions and offsite regulations.

To ensure reliable results, NoizCalc includes all complex data concerning the addition and subtraction of sound waves, including phase information to describe the combination and interaction effects within a loudspeaker system consisting of multiple line arrays, subwoofer arrays and delay systems.

NoizCalc models immissions in the far field according to the internationally accepted ISO 9613-2 or Nord2000 calculation standards. Ground characteristics can be set depending on the absorbency or reflectivity of surfaces, while areas with volume attenuating properties can be defined. Buildings can be included, and the maximum reflection order option adjusts how many reflections are calculated. Parameters for humidity, air pressure and temperature ensure that the correct air absorption figures are accounted. The ISO 9613-2 standard requires limited meteorological information and assumes a worst-case scenario. The more sophisticated propagation model, Nord2000 enables a more precise handling of meteorological conditions allowing the user to model with prevailing wind information. The d&b NoizCalc immission modelling software is available at www.dbaudio.com for registered download, along with furthe information and video tutorials. It was developed in collaboration with SoundPLAN, a specialist software developer for environmental noise prediction.





Graphic plo

The d&b R1 Remote control software

The remote control capability of the d&b Remote Network enables central control and monitoring of a complete d&b loudspeaker system from anywhere in the network, be it from a computer in the control room, at the mix position, or on a wireless tablet in the auditorium. This central access to all functions throughout the d&b Remote Network unlocks the full potential of the d&b system approach. In a typical user workflow, the d&b Remote Network takes settings optimized in the d&b ArrayCalc simulation software and applies these to all the amplifiers within the network.

All functions and controls available on the front panel of d&b amplifiers may be remotely controlled and/or monitored using the d&b R1 Remote control software. This allows each channel of the amplifier to be controlled and enables the creation of groups of loudspeakers. When grouped together, a button or fader can control the overall system level, zone level, equalization and delay, power ON/OFF, MUTE, as well as loudspeaker specific function switches such as CUT/HFA/HFC and CPL. An offline mode is provided for preparation in advance of an event, without the amplifiers being present or connected.

d&b System check verifies that the system performs within a predefined condition, while the Array verification function automatically identifies the physical position of a loudspeaker in an array to check that the system is cabled correctly. Extensive facilities for storing and recalling system settings are provided allowing these to be repeated, as and when required. For mobile applications, project files can be easily adjusted for use with a different set of equipment at another location.

In installation projects the R90 touchscreen remote control can be used for quick and reliable operation of day-to-day functions of a pre-configured d&b system without needing expert level knowledge of audio. The built-in 7" panel PC provides users with one-touch control over power, mute, level, grouping and recall of up to nine AmpPresets, entirely independent of R1.

The R1 software is optimized for use with touch screen, mouse and keyboard and runs on both Microsoft Windows¹ (Win7 or higher) and Mac OS X² (10.7 or higher).

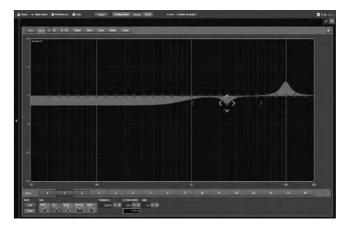
Further information is provided in the d&b Amplifier and Software brochure which is available for download at www.dbaudio.com.



Home



Remote in Configuration mode



d&b Y-Series 29

16-band equalizer

28 d&b Y-Series ² Mac OS X is a trademark of Apple Inc., registered in the U.S. and other countries

¹ Microsoft Windows is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries

The d&b amplifiers

The d&b amplifiers are designed specifically to power d&b loudspeakers and are the beating heart of the d&b System reality. As such, they incorporate Digital Signal Processing for comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls, to fulfil the exact needs of each application.

Every loudspeaker configuration combines comprehensive system limiting, and equalization and crossover settings to ensure consistent results and optimal performance. d&b amplifiers offer

different output configurations for different loudspeaker setups, including Dual Channel mode, for passive setups, Mix TOP/SUB mode, in which two channels are driven through a single output connector, and 2-Way Active mode, which also sends the output of two channels down one connector to drive appropriate loudspeakers actively.

The d&b switch functions provide selected filters to precisely tailor a wide variety of setups to their applications. Examples of these switch functions are the CSA (Cardioid Subwoofer Array)

and HFC (High Frequency Compensation) modes. CSA increases low frequency directivity control by minimising energy transmission towards the rear while HFC compensates for air absorption for loudspeakers covering far field listening positions. In addition to these functions, d&b amplifiers offer a comprehensive set of specific filters such as CUT, a cut mode for TOP loudspeakers when used with d&b subwoofers; CPL, to compensate for the coupling effect between loudspeakers in close proximity to other loudspeakers or hard objects and HFA

mode, to attenuate the high frequencies of a loudspeaker to mimic the effect of far field listening.

These devices offer extended, user-definable equalization and delay capabilities, eliminating the need for external processing devices in the signal chain. All d&b amplifiers integrate with the d&b Remote network to enable the remote control and management of systems from anywhere within a network. Further information is provided in the d&b Amplifier and Software brochure which is available for download at www.dbaudio.com.

Comparison of the d&b amplifiers

	D80	30D	D20	10D	D6
User interface	Encoder/colour TFT touchscreen	LED indicators	Encoder/colour TFT touchscreen	LED indicators	Encoder/LC display
Output channels	4	4	4	4	2
Input channels	4 x AES3 or 4 x analog or 2 x AES3 and 2 x analog	4 x AES3 and 4 x analog	4 x AES3 or 4 x analog or 2 x AES3 and 2 x analog	4 x AES3 and 4 x analog	2 x AES3 or 2 x analog
Latency	0.3 msec	0.3 msec	0.3 msec	0.3 msec	0.3 msec
User equalizers (per channel)	2 x 16-band	2 x 16-band	2 x 16-band	2 x 16-band	4-band
Delay	10 sec/3440 m	10 sec/3440 m	10 sec/3440 m	10 sec/3440 m	340 msec/116.9 m
Maximum output power (THD+N < 0.5%, 12 dB crest factor)	4 x 2000 W into 8 ohms 4 x 4000 W into 4 ohms	4 x 800 W into 8 ohms 4 x 1600 W into 4 ohms	4 x 800 W into 8 ohms 4 x 1600 W into 4 ohms	4 x 350 W into 8 ohms 4 x 700 W into 4 ohms	2 x 350 W into 8 ohms 2 x 600 W into 4 ohms
Output routing	Dual Channel, Mix TOP/SUB 2-Way Active	Dual Channel, Mix TOP/SUB 2-Way Active	Dual Channel, Mix TOP/SUB 2-Way Active	Dual Channel, Mix TOP/SUB 2-Way Active	Dual Channel
Output connectors	NL4/EP5 plus central NL8	Phoenix Euroblock	NL4 plus central NL8	Phoenix Euroblock	NL4
GPIO connector, 5 ports	No	Phoenix Euroblock	No	Phoenix Euroblock	No
Cable compensation	LoadMatch	LoadMatch	LoadMatch	LoadMatch	No
Power supply	Autosensing switched mode power supply with active PFC	Universal range switched mode power supply with active PFC	Universal range switched mode power supply with active PFC	Universal range switched mode power supply with active PFC	Autosensing switched mode power supply with active PFC
Mains voltage	100 - 127/208 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 120/220 - 240, 50 - 60 Hz
Weight (kg/lb)	19/42	10.6/23.4	10.8/23.8	10.6/23.4	8/17.6
Dimensions	2 RU x 19" x 530 mm	2 RU x 19" x 435 mm	2 RU x 19" x 460 mm	2 RU x 19" x 435 mm	2 RU x 19" x 353 mm
Remote	OCA via Ethernet/CAN	OCA via Ethernet/CAN	OCA via Ethernet/CAN	OCA via Ethernet/CAN	CAN
Airflow					

Airflow











30 d&b Y-Series d&b Y-Series 31

The controller setups and operation with d&b amplifers

The Y-Series frequency responses

Arc and Line setups

The Arc mode is intended for line array loudspeakers when used in curved array sections. The Line mode is used for long throw array sections with three or more consecutive splay settings of 0°, 1° or 2°. Compared to the Arc mode, the mid/high range is reduced to compensate for the extended near field.

AP setup

In connection with ArrayProcessing (AP), the AP setup contains the AP data that are generated in the ArrayCalc simulation software. These are transferred to the applicable amplifiers via the d&b Remote network (OCA/AES70) using R1.

CUT mode

Set to CUT, the cabinet low frequency level is reduced and is configured for use with d&b active subwoofers.

HFC mode

Selecting the HFC (High Frequency Compensation) mode compensates for loss of high frequency energy due to absorption in air when loudspeakers are used to cover far field listening positions. HFC has two settings which should be used selectively, HFC1 for cabinets covering distances larger than 25 m (82 ft) and HFC2 for those covering distances larger than 50 m (164 ft). This can be used to achieve the correct sound balance between close and remote audience areas allowing all amplifiers driving the array to be fed from the same signal source.

HFA mode

In HFA mode (High Frequency Attenuation), the HF response of the system is rolled off. The HFA provides a natural, balanced frequency response when a unit is placed close to listeners in near field or delay use. HFA begins gradually at 1 kHz, dropping by approximately 3 dB at 10 kHz. This roll off mimics the decline in frequency response experienced when listening to a system from a distance in a typically reverberant room or auditorium.

CPL function

The CPL (Coupling) function compensates for coupling effects between the cabinets of an array. CPL begins gradually around 1 kHz, with the maximum attenuation below 100 Hz.

100 Hz mode

The 100 Hz mode limits the upper operating frequency of the subwoofer to 100 Hz, complementing top cabinets in full range mode.

CSA mode

CSA (Cardioid Subwoofer Array) mode enables the combination of three or multiples of three B6-SUB cabinets within an array producing exceptional low frequency directivity control. The amplifier channel for the centre subwoofer of the column, which is physically pointed to the rear, has CSA selected. The forward facing cabinets are driven with an amplifier channel set in the standard mode. For further information please refer to the d&b TI 330 Cardioid Subwoofer Array, which is available for download at www.dbaudio.com.

Recommended amplifiers for mobile applications

	Y7P	Y10P	В6	Y8	Y12	Y-SUB
D80	х	х	х	х	×	х

Recommended amplifiers for installation applications

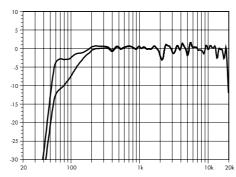
	Yi7P	Yi10P	Bi6	Yi8	Yi12	Yi-SUB
D80	х	х	х	х	х	х
30D	х	х	х	х	х	х

Maximum loudspeakers per amplifier channel

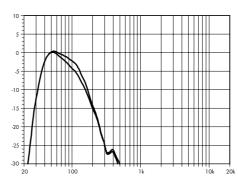
					Y-SUB Yi-SUB
2	2	2	2	2	2

Available controller settings

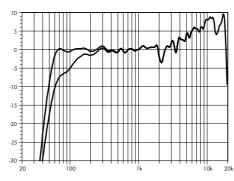
	Y7P Yi7P	Y10P Yi10P	B6 Bi6	Y8 Yi8	Y12 Yi12	Y-SUB Yi-SUB
Arc/Line				х	х	
AP				х	x	х
сит	х	х		х	х	
HFC				х	х	
HFA	х	х				
CPL	х	х		х	х	
100 Hz			х			х
CSA			х			



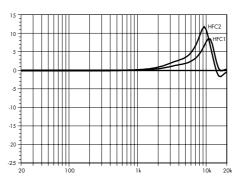
Y7P/Yi7P standard and CUT



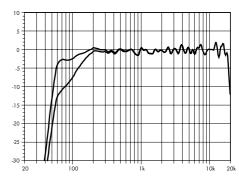
B6-SUB/Bi6-SUB standard and 100 Hz



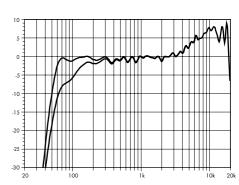
Y12/Yi12 standard and CUT (single cabinet)



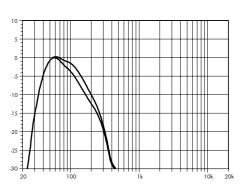
Correction of HFC*
*schematic diagram



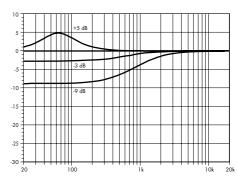
Y10P/Yi10P standard and CUT



Y8/Yi8 standard and CUT (single cabinet)

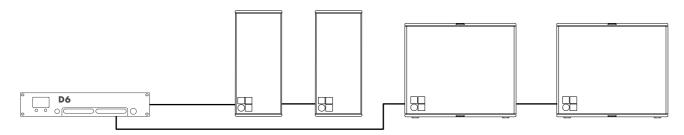


Y-SUB/Yi-SUB standard and 100 Hz

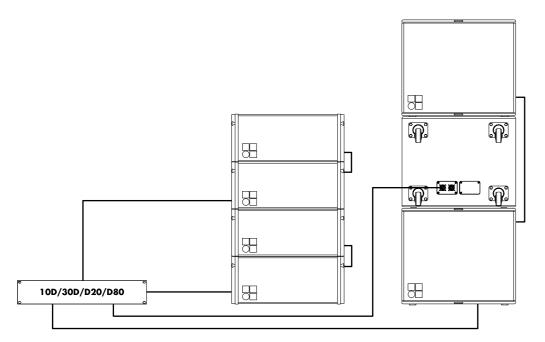


Correction of CPL*
*schematic diagram

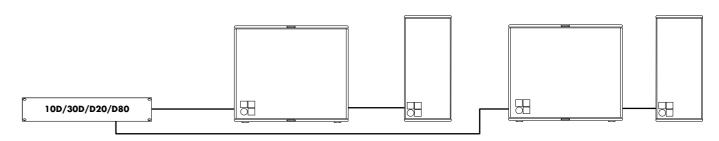
The d&b amplifier output modes



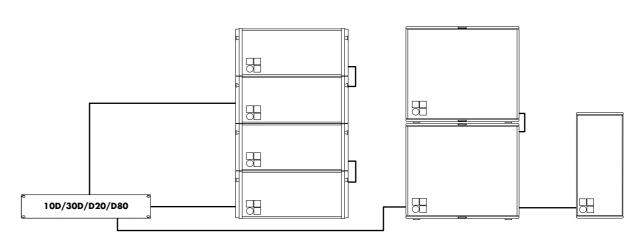
D6 amplifier in Dual Channel mode for Y7P, Y10P, Yi7P, Yi10P, Y8, Y12, Yi8, Yi12 as well as B6-SUB, Bi6-SUB, Y-SUB and Yi-SUB



10D/30D/D20/D80 amplifier in Dual Channel mode for Y7P, Y10P, Yi7P, Yi10P, Y8, Y12, Yi8, Yi12 as well as B6-SUB, Bi6-SUB, Y-SUB and Yi-SUB (B6-SUB as CSA)



10D/30D/D20/D80 amplifier in Mix TOP/SUB mode for Y7P, Y10P, Yi7P, Yi10P, Y8, Y12, Yi8 or Yi12 and B6-SUB, Bi6-SUB, Y-SUB or Yi-SUB



10D/30D/D20/D80 amplifier in a mixed configuration of Dual Channel and Mix TOP/SUB mode for Y7P, Y10P, Y17P, Y110P, Y8, Y12, Y18 or Y112 and B6-SUB, Bi6-SUB, Y-SUB or Yi-SUB

The DS10 and DS20 Audio network bridges The DS100 Signal Engine

DS10 Audio network bridge

The DS10 Audio network bridge interfaces between Dante networks and AES3 digital audio signals, while also providing distribution of Ethernet control data. Positioned within the signal chain in front of the amplifiers, this 1 RU device expands the d&b system approach. Each unit can deliver up to sixteen Dante network channels via AES3 digital signal outputs. Additionally, four AES3 input channels provide access to the Dante audio network for applications such as a break-in from a Front of House console. The DS10 incorporates an integrated 5-port switch, offering a primary and redundant network for the Dante protocol, as well as advanced functions such as Multicast Filtering and VLAN modes. Using the DS10 Audio network bridge, audio signals and remote control data can be combined using a single Ethernet cable.

DS20 Audio network bridge

The DS20 Audio network bridge supports the open standards-based Milan protocol rather than Dante. Milan (Media integrated local area networking) is a high level interoperability solution based on Audio Video Bridging (AVB) technology. The main advantages are deterministic behaviour (zero network congestion); improved reliability; optimum synchronization and hassle free network setup, as no special settings, such as QoS, need to be set within the switches to ensure delivery.

DS100 Signal Engine

The d&b DS100 Signal Engine is the platform underneath the Soundscape, based on a specialized rack mount 3 RU audio processor with Audinate Dante networking. It provides a 64 x 64 audio matrix with level and delay adjustments at all cross points. Additional software modules provide dynamic source positioning and emulated acoustics functions. The DS100 is a versatile tool for use within complex audio systems to route and distribute multiple audio channels to numerous amplifiers driving loudspeaker positions and zones, show relay and break out rooms. The networking capabilities with a Dante enabled processor are significant, particularly for busy, multi-room complexes. The DS100 completely integrates with the overall d&b system approach, including loudspeakers, amplifiers, rigging, transport and networking accessories and the DS10 Audio network bridge. The complete system is designed and optimized in the d&b ArrayCalc simulation software, and controlled via the d&b R1 Remote control software.



The DS10 Audio network bridge front view



The DS10 Audio network bridge rear view



The DS20 Audio network bridge front view

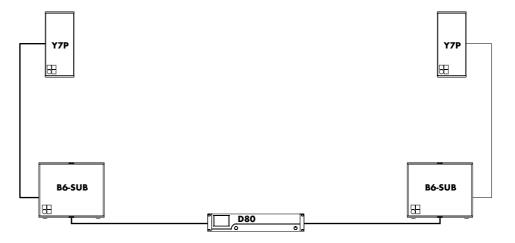


The DS20 Audio network bridge rear view

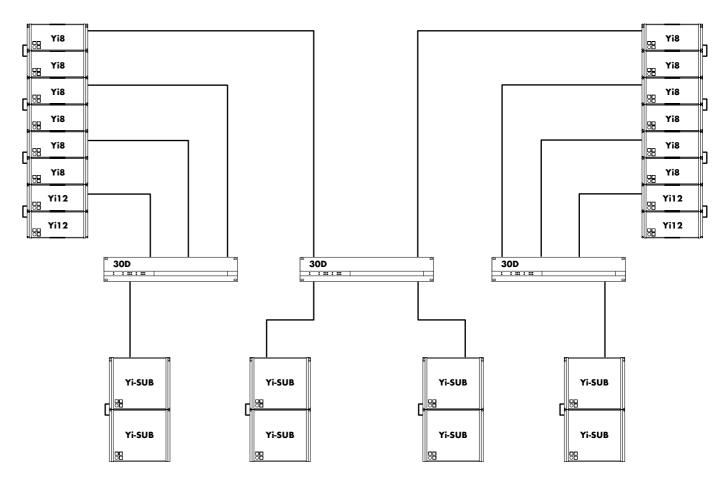


The DS100 Signal Engine front view

The Y-Series configuration examples

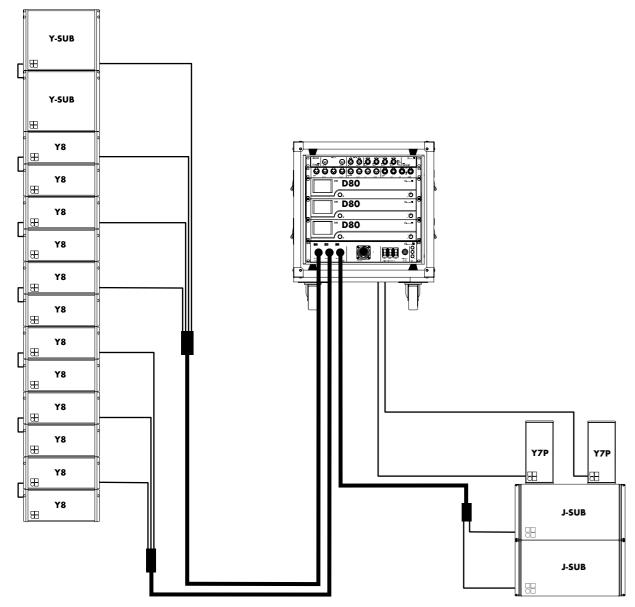


Y-Series L/R configuration comprising Y7P and B6-SUB with a D80 amplifier in Mix TOP/SUB mode¹

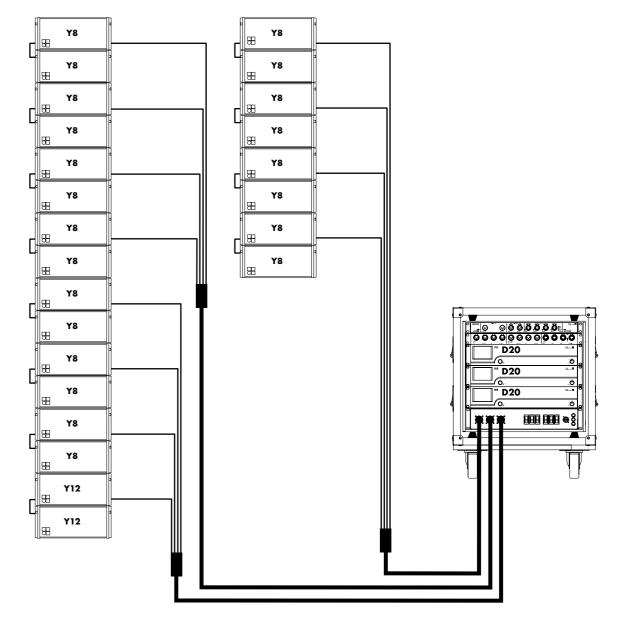


Yi line array in L/R configuration with flown Yi8/Yi12s and ground stacked Yi-SUBs with 30D amplifiers in Dual Channel mode

The Y-Series configuration examples



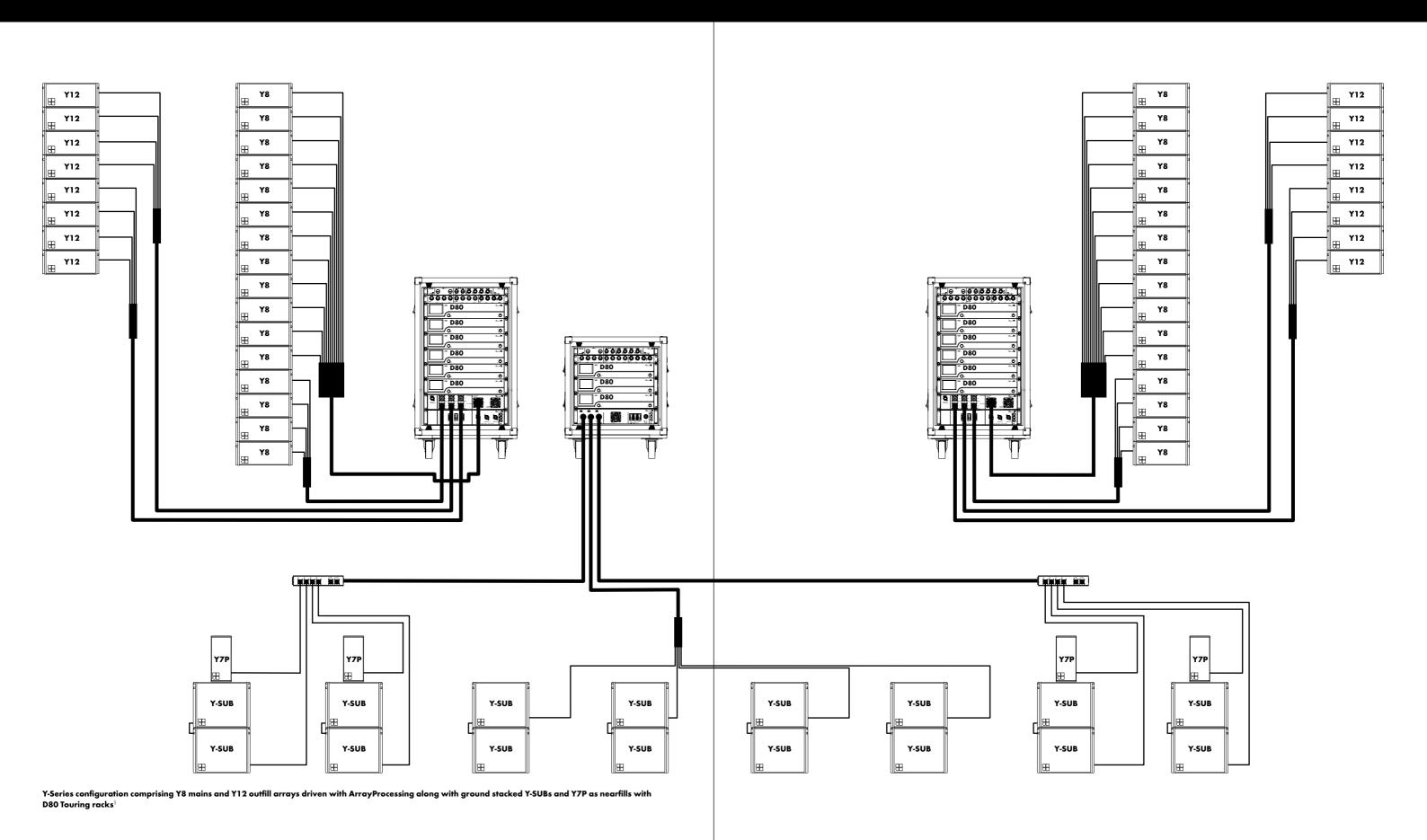
Y-Series configuration comprising Y8 and Y-SUB flown array with ground stacked J-Subs and Y7P as nearfill with D80 Touring rack



Y-Series configuration comprising Y8/Y12 mains and Y8 outfill arrays with D20 Touring rack

38 d&b Y-Series d&b Y-Series 39

The Y-Series configuration examples with ArrayProcessing

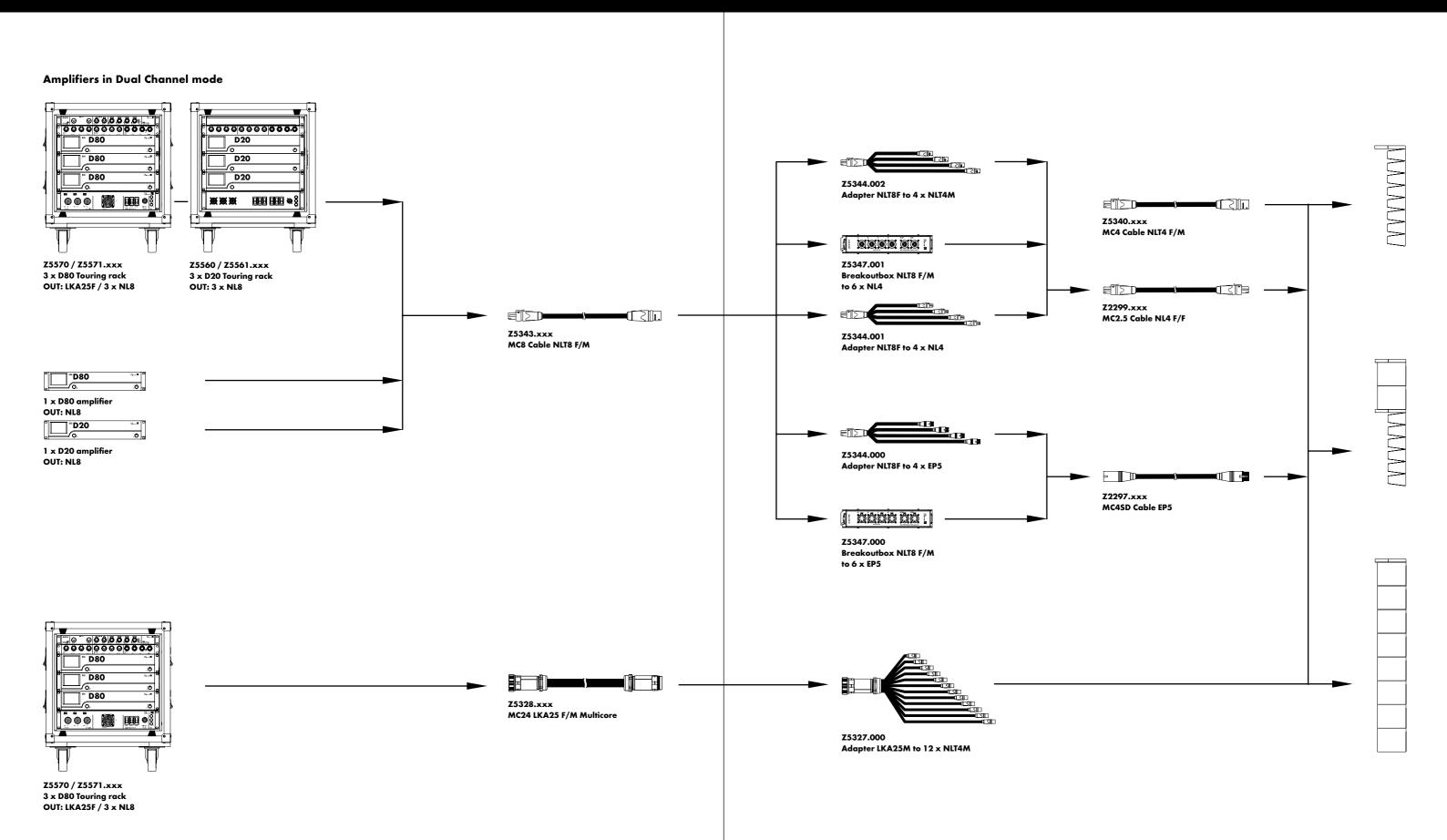


40 d&b Y-Series

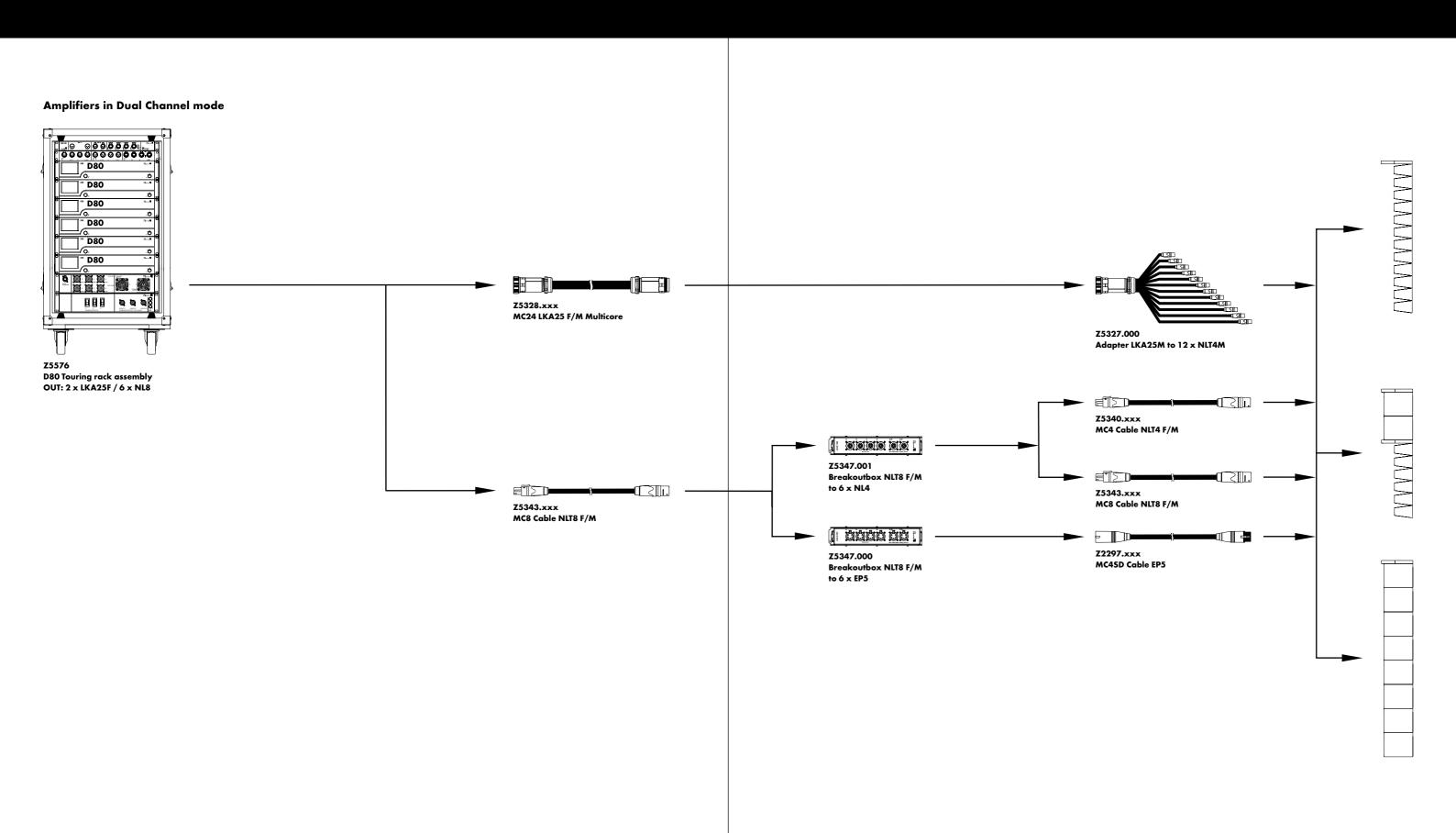
These configurations are also valid for Yi loudspeakers

48b Y-Series 41

The Y-Series cables and adapters MC8 / MC24



The Y-Series cables and adapters MC8 / MC24



The Y-Series product overview

Y loudspeakers	Z0702.xxx	Y7P loudspeaker
-	Z0703.xxx	Y10P loudspeaker
	Z0710.xxx	B6 subwoofer
	Z0707.xxx	Y8 loudspeaker
	Z0708.xxx	Y12 loudspeaker
	Z0709.xxx	Y subwoofer
Loudspeaker	Zxxxx.002	NLT4 F/M connector
connector options	Zxxxx.000	EP5 connector
	Zxxxx.001	NL4 connector
Yi loudspeakers	Z0712.001	Yi7P loudspeaker NL4 connector
	Z0713.001	Yi10P loudspeaker NL4 connector
	Z0711.001	Bi6 subwoofer NL4 connector
	Z0717.001	Yi8 loudspeaker NL4 connector
	Z0718.001	Yi12 loudspeaker NL4 connector
	Z0719.001	Yi subwoofer NL4 connector
		WR Weather Resistant option
		SC Special Colour option ²
Loudspeaker cases	E7473.000	Touring case 2 x Y7P/Y10P
	E7472.000	Touring case 4 x Y8/Y12
	E7475.000	Touring case 2 x Y Flying frame
Loudspeaker carts	E7470.000	Touring cart 4 x Y8/Y12
	E7471.000	Touring cart 8 x Y8/Y12
Lids	E7925.000	B6-SUB Transport lid
	E7924.000	Y-SUB Transport lid
YP accessories	Z5397.000	YP Swivel bracket
	Z5398.000	YP Horizontal bracket ³
	Z5399.000	YP Mounting bracket ³
	Z5389.000	Bi6-SUB Horizontal bracket ³
	Z5010.000	TV Spigot with fixing plate
	Z5012.500	Pipe clamp for TV Spigot
	Z5049.000	Flying pin 8mm
	Z5013.000	M20 pole with winder
	Z5009.000	Loudspeaker stand with winder
	Z5024.000	Loudspeaker stand adapter
Y accessories	Z5390.000	Y Flying frame ³
	Z5394.000	Y Flying adapter ³
	Z5393.000	Yi Mounting frame top ³
	Z5393.001	Yi Mounting frame bottom ³
	Z5396.000	Y Base plate
	Z5391.000	Y Hoist connector chain

WR only for Yi loudspeakers, on request	
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² SC only for Yi loudspeakers

	Z5392.000	Y Safety chainset
	Z5147.001	Rota clamp
	E6507.000	1t Shackle
Remote network	Z6118.000	R60 USB to CAN interface
	Z6124.000	R70 Ethernet to CAN interface
Amplifiers	Z2710.xxx	D80 amplifier ⁴
	Z2750.xxx	D20 amplifier ⁴
	Z2770.xxx	30D amplifier⁵
	Z2760.xxx	10D amplifier⁵
	Z2700.xxx	D6 amplifier ⁵
Processing and distribution	Z4010.000	DS10 Audio network bridge
	Z4011.000	DS20 Audio network bridge
	Z4100.000	DS100 Signal Engine
Amplifier rack assemblies	Z5560.xxx	3 x D20 Touring rack ⁶
	Z5561.xxx	3 x D20 Touring rack (includes DS10) ⁶
	Z5570.xxx	3 x D80 Touring rack ⁶
	Z5571.xxx	3 x D80 Touring rack (includes DS10) ⁶
	Z5576.xxx	6 x D80 Touring rack (includes DS10) ⁶
Racks	E7480.000	D20 Touring rack 2 RU, 19" SD, shock mounted, handles
	E7468.000	D80 Touring rack 2 RU, 19" SD, shock mounted, handles
	E7483.000	DS100 Touring rack 3 RU, 19" SD, shock mounted, handles
Cables and adapters	Z5339.000	Multichannel extension cable
	Z5343.xxx	MC8 Cable NLT8 F/M
	Z5345.001	Adapter 4 x NL4 to NLT8M
	Z5344.002	Adapter NLT8F to 4 x NLT4M
	Z5344.001	Adapter NLT8F to 4 x NL4
	Z5344.000	Adapter NLT8F to 4 x EP5
	Z5347.001	Breakoutbox NLT8 F/M to 6 x NL4
	Z5347.000	Breakoutbox NLT8 F/M to 6 x EP5
	Z5340.xxx	MC4 Cable NLT4 F/M
	Z5328.xxx	MC24 LKA 25 F/M Multicore
	Z5327.000	Adapter LKA25M to 12 x NLT4M
	Z2299.xxx	MC2.5 Cable NL4 F/F
	Z5763.000	WR 5,5m cable 2x2.5mm ²⁷

³ SC on request

The complete list of mobile amplifier versions is available in the d&b D Amplifier and Software brochure

The complete list of installation amplifier versions is available in the d&b xD Installation Amplifier and Software brochure

Further information is available in the d&b D Amplifier and Software brochure

Other lengths on request d&b Y-Series 47

