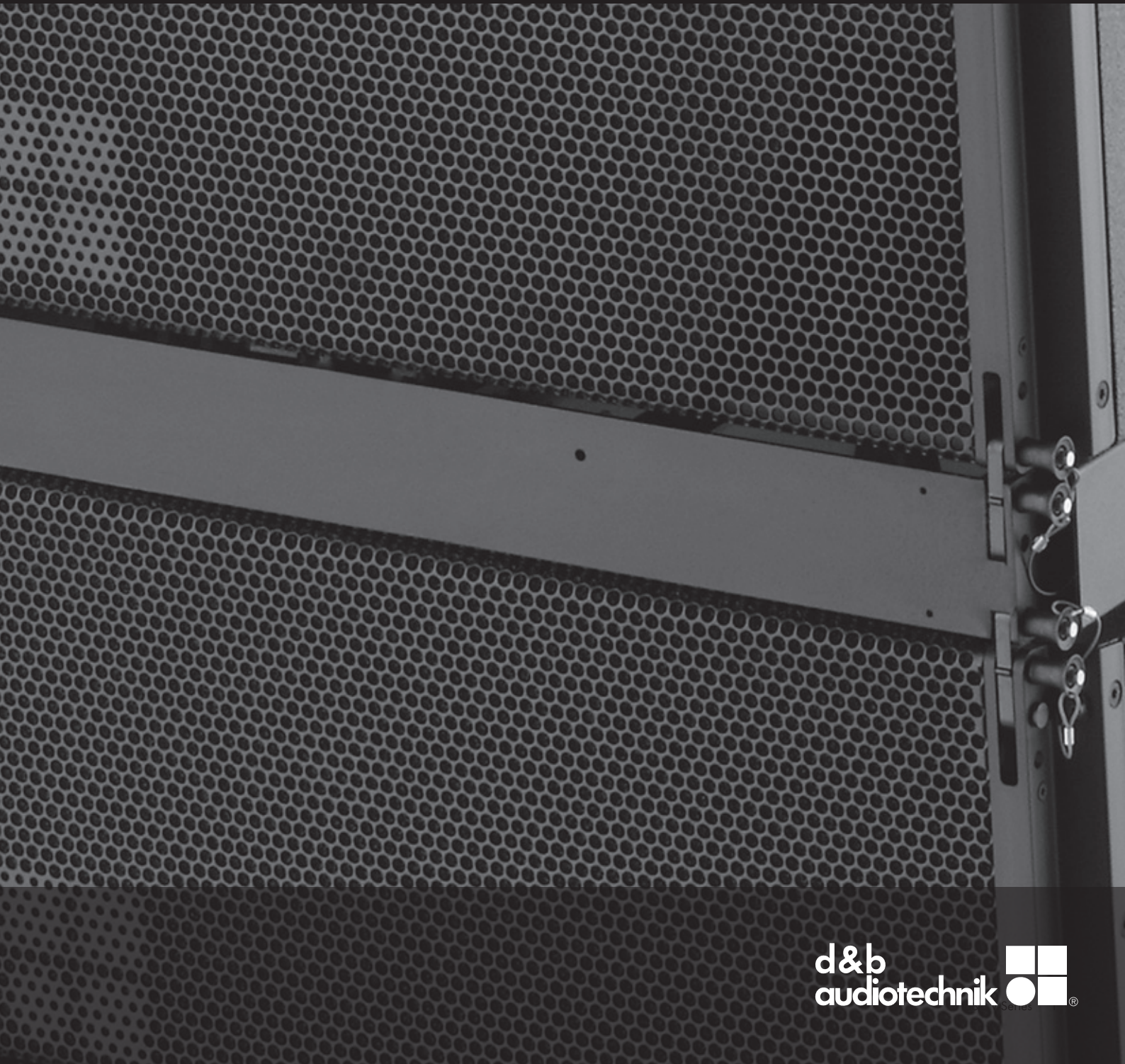


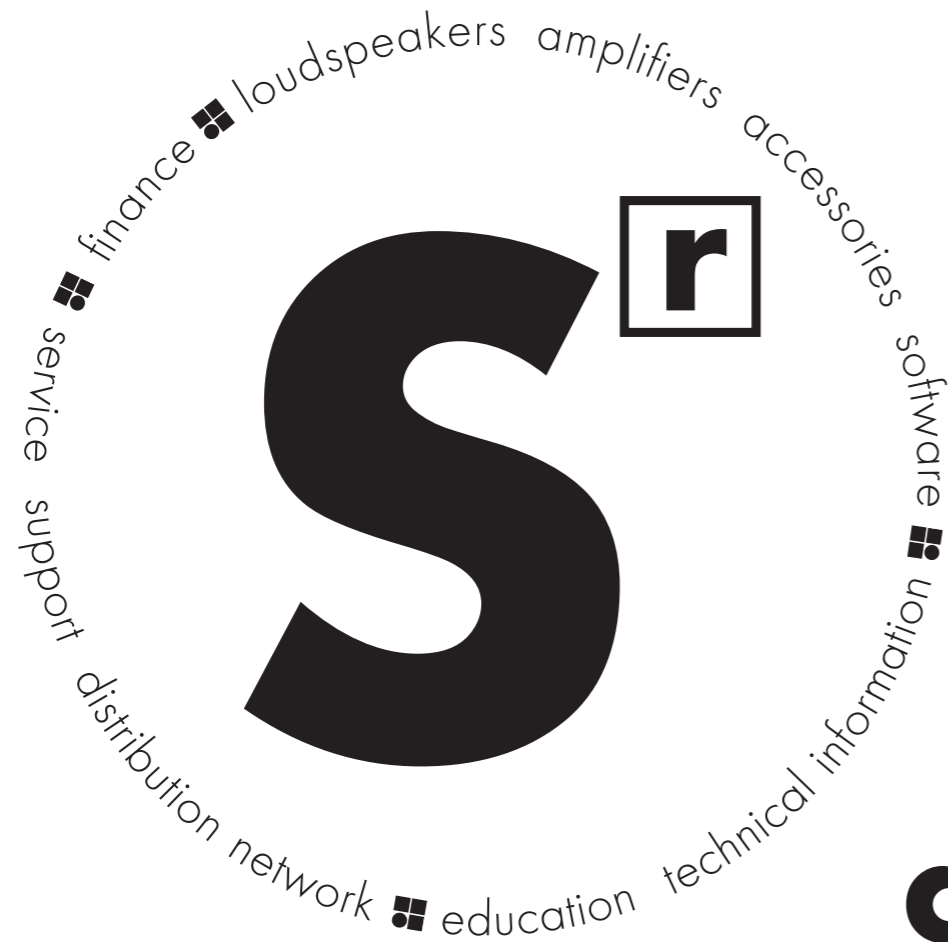
V

V-Series





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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 **V-Series** comprises both line array solutions and point source systems; both offer minimal size and weight in combination with outstanding control of dispersion behaviour and convincing high sound pressure levels. With its crystal clear and detailed audio performance, smooth and even frequency response over distance, high dynamic bandwidth and power and headroom capabilities all make the V-Series a good choice for any medium

to large sound reinforcement applications, for any sound genre. The line array system features an integrated rigging system ensuring speedy deployment providing a quick and easily configurable array solution for all intended applications. This flexible system can be used stand-alone, or is the ideal complement to the larger J-Series in terms of sound character, headroom, dispersion and arrayability for outfills, as a centre

cluster or delays. The high output point source loudspeakers are the answer for any sound reinforcement system that demand high sound pressure levels from a single box solution. The V loudspeakers are designed for a wide range of applications with a clear perspective to provide mobile, flexible, configurable solutions to the most arduous sound reinforcement situations. The **Vi loudspeakers** differ only slightly in cabinet construction

and mounting hardware. They are intended for permanently installed performance spaces where the specification is rider driven. Both the Vi cabinets and mounting hardware can be properly colour matched to interior designs and are weather protected for climatically hostile environments.

The V-Series

The 3-way passive **V7P** and **Vi7P** point source loudspeakers produce a constant directivity dispersion of 75° x 40° (h x v) with exceptional vertical constant directivity dispersion control nominally being maintained down to 350 Hz. This is achieved using a symmetrical dipolar driver arrangement for the two 10" LF neodymium drivers, with a centrally mounted horn-loaded 8" MF driver and a coaxial 1.4" exit HF compression driver mounted on a constant directivity horn. The **V10P** and **Vi10P** point source loudspeakers feature the same driver configuration, but produce a wider 110° horizontal dispersion pattern. Both loudspeakers feature a rotatable HF horn which enables deployment in either orientation. The advanced bass reflex and venting design combined with a large cabinet volume increases the LF performance of these compact cabinets, with a frequency response extending from 59 Hz to 18 kHz.



V7P/V10P loudspeaker



Vi7P/Vi10P loudspeaker



V-GSUB



Vi-GSUB



V8/V12 loudspeaker



Vi8/Vi12 loudspeaker



V subwoofer



Vi subwoofer

The **V-GSUB** and **Vi-GSUB** are actively driven cardioid subwoofers that require only one amplifier channel. These subwoofers share the same acoustical and visual design as the V-SUB and Vi-SUB, but are intended for ground stacked applications only.

The **V8** and **Vi8** line array loudspeakers produce an 80° constant directivity dispersion pattern in the horizontal plane. They utilize a passive 3-way design featuring two 10" neodymium LF drivers, one hornloaded 8" MF driver, two 1.4" exit HF compression drivers with 2.5" voicecoils mounted to a dedicated wave shaping device and a passive crossover network.

The **V12** and **Vi12** loudspeakers line array modules, which are acoustically and mechanically compatible with the V8 Loudspeaker and Vi8 Loudspeaker respectively, differ only in the 120° horizontal coverage. All components are arranged symmetrically around the centre axis of the cabinet to produce a perfect symmetrical dispersion pattern. Due to the dipolar arrangement of the LF drivers, a broadband, horizontal dispersion control is maintained down to approximately 250 Hz.

The **V** and **Vi** subwoofers are compact high performance cardioid subwoofers powered by a single amplifier channel. They share the same width as the V8/Vi8 and V12/Vi12 loudspeakers and are equipped with compatible flying fittings. The V and Vi-SUB house two long excursion neodymium drivers in an integrated cardioid setup to avoid unwanted energy behind the system. The Vi cabinets feature an impact resistant paint finish; Weather Resistant and Special Colour options are available.

All V 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 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.

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 **DS10 Audio network bridge** provides 16 AES3 outputs and interfaces between the Dante audio transport protocol and the d&b amplifiers.

The **DS100 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.

A selection of transport solutions are available for the V loudspeakers. 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 amplifier



30D amplifier



DS10 Audio network bridge



DS100 Signal Engine

The V7P loudspeaker

The Vi7P loudspeaker

V7P/Vi7P loudspeaker

The 3-way passive V7P and Vi7P loudspeakers feature two 10" drivers in a dipole arrangement with a horn loaded 8" MF driver and a 1.4" exit compression driver mounted onto a rotatable CD horn. The Vi7P is the installation version of the V7P loudspeaker and differs only in cabinet construction, finish and mounting hardware. The innovative horn design for the centrally mounted 8" MF driver produces a remarkable sensitivity resulting in an exceptional performance in the vocal range. An advanced bass-reflex and venting design delivers an extended LF output with full bandwidth capabilities.

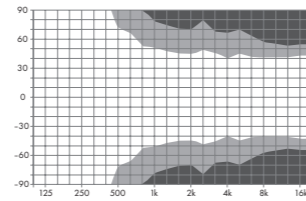
These high performance point source loudspeakers provide a broad variety of deployment possibilities, especially when used as a stand-alone full range system, or combined with other elements from the V-Series, either ground stacked or flown. The HF horn can be rotated by 90° to enable horizontal orientation. The loudspeaker cabinets are constructed from marine plywood, the V7P has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Vi7P has an impact resistant paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill. The V7P cabinet incorporates a pair of handles. M10 threaded inserts are provided for attaching d&b rigging hardware.

System data

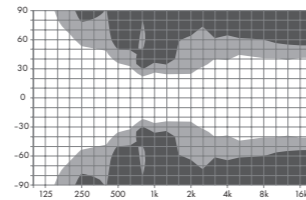
Frequency response (-5 dB standard) 59 Hz - 18 kHz
 Frequency response (-5 dB CUT mode)..... 100 Hz - 18 kHz
 Max. sound pressure (1 m, free field)¹
 with 30D/D20..... 137 dB
 with D80 140 dB
 Input level (100 dB SPL/1 m) -17 dBu

Loudspeaker data

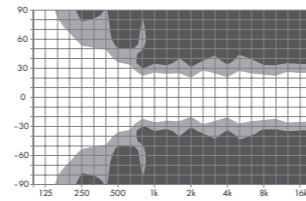
Nominal impedance8 ohms
 Power handling capacity (RMS/peak 10 ms)500/2000 W
 Nominal dispersion angle (h x v)75° x 40°
 Components2 x 10" driver with neodymium magnet
 1 x 8" driver with neodymium magnet
 1 x 1.4" exit compression driver
 passive crossover network
 Connections V7P2 x NLT4 F/M
 optional 2 x NL4 or 2 x EP5
 Connections Vi7P..... 2 x NL4 and screw terminal block
 Weight V7P/Vi7P 33 kg (75 lb)



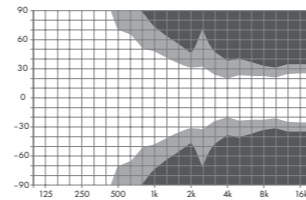
V7P and Vi7P horizontal dispersion characteristics²



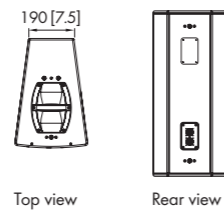
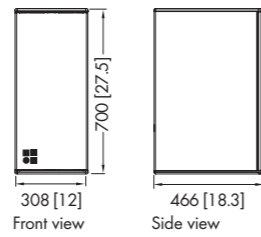
V7P and Vi7P horizontal dispersion characteristics/horizontal setup, horn rotated²



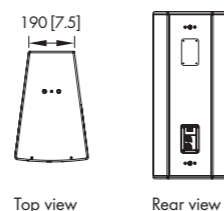
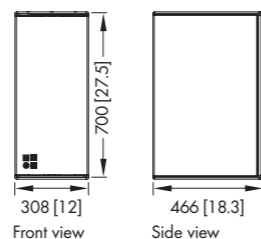
V7P and Vi7P vertical dispersion characteristics²



V7P and Vi7P vertical dispersion characteristics/horizontal setup, horn rotated²



V7P cabinet dimensions in mm [inch]



Vi7P cabinet dimensions in mm [inch]

¹ 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 V10P loudspeaker

The Vi10P loudspeaker

V10P/Vi10P loudspeaker

The 3-way passive V10P and Vi10P loudspeakers feature two 10" drivers in a dipole arrangement with a horn loaded 8" MF driver and a 1.4" exit compression driver mounted onto a rotatable CD horn. The Vi10P is the installation version of the V10P loudspeaker and differs only in cabinet construction, finish and mounting hardware. The innovative horn design for the centrally mounted 8" MF driver produces a remarkable sensitivity resulting in an exceptional performance in the vocal range. An advanced bass-reflex and venting design delivers an extended LF output with full bandwidth capabilities.

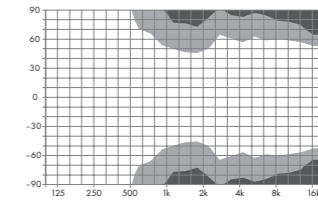
These high performance point source loudspeakers provide a broad variety of deployment possibilities, especially when used as a stand-alone full range system, or combined with other elements from the V-Series, either ground stacked or flown. The HF horn can be rotated by 90° to enable horizontal orientation. The loudspeaker cabinets are constructed from marine plywood, the V10P has an impact and weather protected PCP (Polyurea Cabinet Protection) finish, while the Vi10P has an impact resistant paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill. The V10P cabinet incorporates a pair of handles. M10 threaded inserts are provided for attaching d&b rigging hardware.

System data

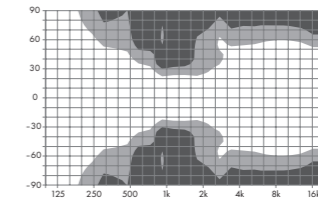
Frequency response (-5 dB standard) 59 Hz - 18 kHz
 Frequency response (-5 dB CUT mode)..... 100 Hz - 18 kHz
 Max. sound pressure (1 m, free field)¹
 with 30D/D20..... 136 dB
 with D80 139 dB
 Input level (100 dB SPL/1 m) -17 dBu

Loudspeaker data

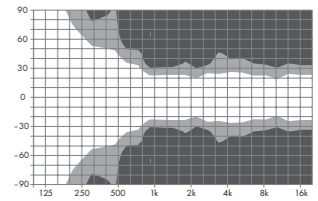
Nominal impedance8 ohms
 Power handling capacity (RMS/peak 10 ms)500/2000 W
 Nominal dispersion angle (h x v)110° x 40°
 Components2 x 10" driver with neodymium magnet
 1 x 8" driver with neodymium magnet
 1 x 1.4" exit compression driver
 passive crossover network
 Connections V10P2 x NLT4 F/M
 optional 2 x NL4 or 2 x EP5
 Connections Vi10P 2 x NL4 and screw terminal block
 Weight V10P/Vi10P 33 kg (75 lb)



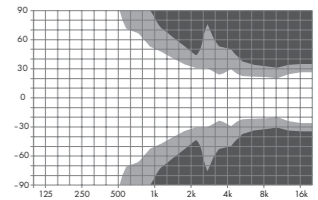
V10P and Vi10P horizontal dispersion characteristics²



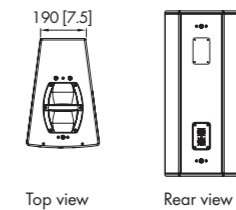
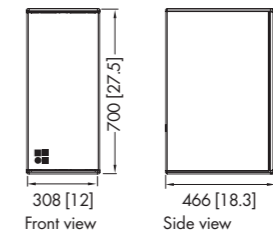
V10P and Vi10P horizontal dispersion characteristics/horizontal setup, horn rotated²



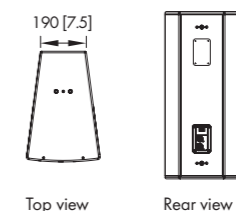
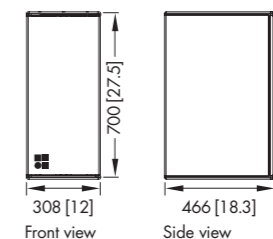
V10P and Vi10P vertical dispersion characteristics²



V10P and Vi10P vertical dispersion characteristics/horizontal setup, horn rotated²



V10P cabinet dimensions in mm [inch]



Vi10P cabinet dimensions in mm [inch]

¹ 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 V-GSUB The Vi-GSUB

The V7P, V10P and V-GSUB transport accessories

V-GSUB/Vi-GSUB

The V-GSUB and Vi-GSUB are actively driven high performance cardioid subwoofers powered by a single amplifier channel. The V-GSUB and Vi-GSUB are intended for ground stacked applications only, and share the same acoustical and visual design as the V-SUB and Vi-SUB, which feature integrated rigging equipment. The Vi-GSUB is the installation version of the V-GSUB. They house two long excursion neodymium drivers, an 18" driver in a bass-reflex design facing to the front and a 12" driver in a two chamber bandpass design radiating to the rear. The cardioid dispersion pattern resulting from this arrangement avoids unwanted energy behind the system that reduces the excitation of the reverberant field at low frequencies and provides the greatest accuracy of low frequency reproduction.

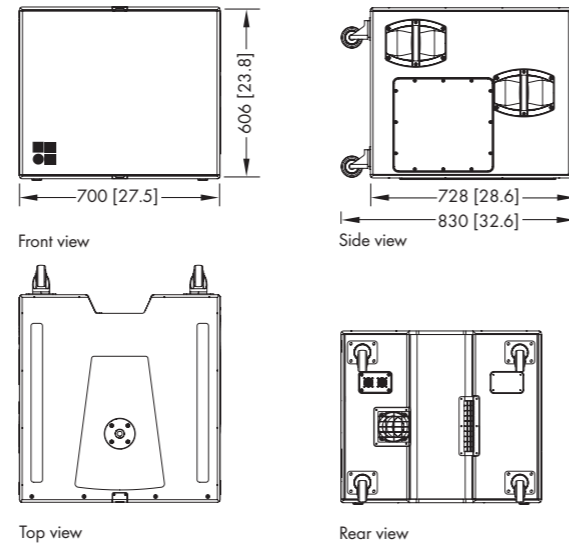
The cabinet is constructed from marine plywood and has an impact and weather protected PCP (Polyurea Cabinet Protection) finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The V-GSUB top panel has a recess in the form of the footprint of a V7P/V10P enclosure to prevent cabinet movement when stacking one TOP loudspeaker. The enclosure features two runners to protect the bottom panel from scratching. Two correspondingly shaped recesses are incorporated into the top panel of each V-GSUB cabinet to accept these runners, preventing cabinet movement when stacked. Each side of the V-GSUB panel incorporates two handles whilst the top panel has an M20 high stand flange inserted.

System data

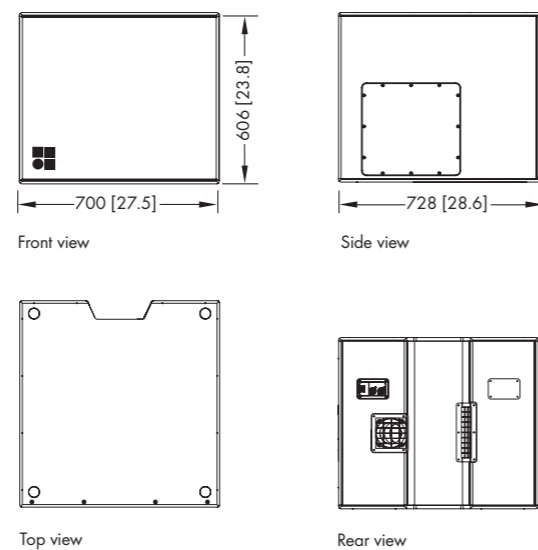
Frequency response (-5 dB standard)37 Hz - 115 Hz
 Frequency response (-5 dB 100 Hz mode)..... 37 Hz - 95 Hz
 Max. sound pressure (1 m, free field)¹
 with 30D/D20..... 133 dB
 with D80 137 dB

Loudspeaker data

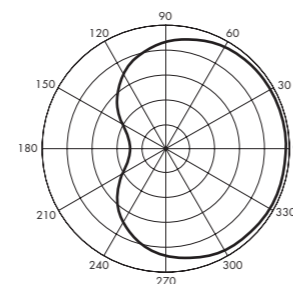
Nominal impedance8 ohms
 Power handling capacity (RMS/peak 10 msec)800/3200 W
 Components 1 x 18" driver
 1 x 12" driver
 Connections V-GSUB.....2 x NLT4 F/M
 optional 2 x NL4 or 2 x EP5
 Connections Vi-GSUB..... 2 x NL4 and screw terminal block
 Weight V-GSUB/Vi-GSUB.....61/58 kg (135/128 lb)



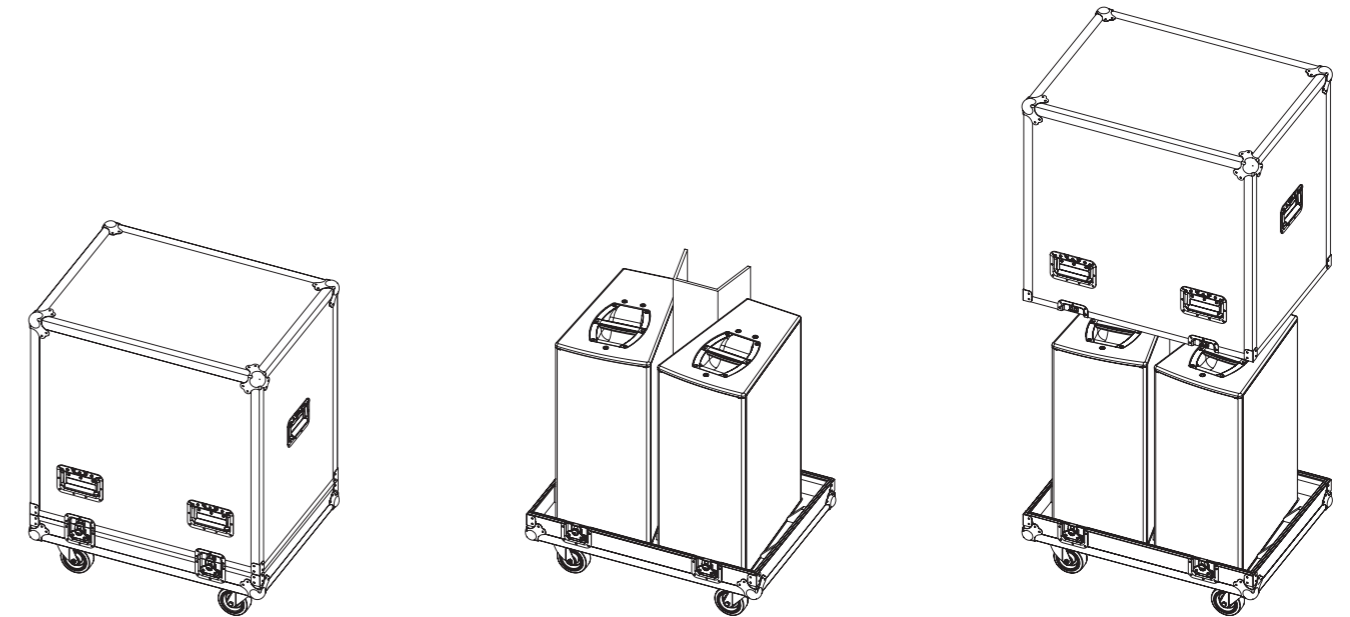
V-GSUB cabinet dimensions in mm [inch]



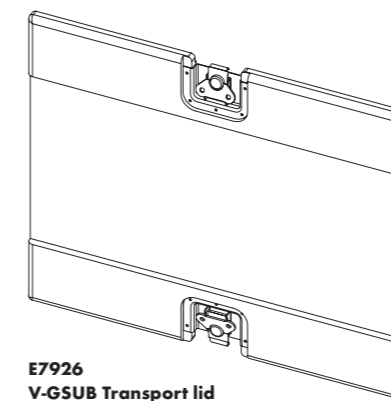
Vi-GSUB cabinet dimensions in mm [inch]



Cardioid polar pattern



E7466
Touring case 2 x V7P/V10P
 Dimensions (H x W x D):
 970 x 800 x 600 mm
 38.2 x 31.5 x 23.6 inch
 Net weight: 43 kg (94.8 lb)



E7926
V-GSUB Transport lid

The V8 loudspeaker The Vi8 loudspeaker

V8/Vi8 loudspeaker

The V8 and Vi8 are line array loudspeakers, the Vi8 Loudspeaker is the installation version of the V8 Loudspeaker. They are 3-way passive designs featuring two 10" LF drivers, one hornloaded 8" MF driver and two 1.4" exit HF compression drivers with 2.5" voicecoils mounted to a dedicated waveshaping device. The symmetrical dipolar arrangement of the neodymium LF drivers around the centrally mounted coaxial MF and HF components allows a smooth overlap of the adjacent frequency bands in the crossover design. This results in an exceptional 80° horizontal constant directivity dispersion control nominally being maintained down to 250 Hz.

The mechanical and acoustical design enables flown vertical arrays of up to twenty four loudspeakers to be suspended using vertical splay angles between 0° to 14° with a 1° resolution. It can be used in columns of purely V8 or Vi8 loudspeakers or combined with V12/Vi12s and/or with V-SUB/Vi-SUBs.

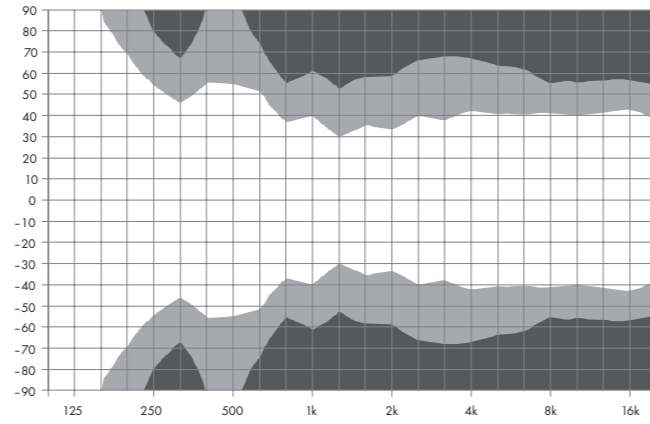
The cabinet is constructed from marine plywood and has an impact and weather protected PCP (Polyurea Cabinet Protection) finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. Each side panel of the V8 cabinet incorporates a handle while two additional recessed grips are provided at the rear bottom of both the V8 and Vi8.

System data

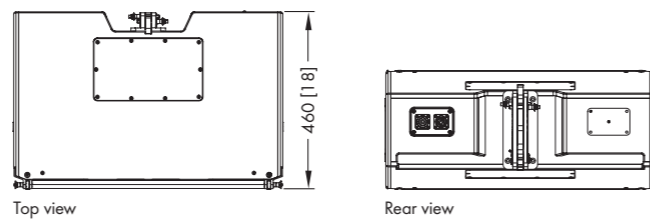
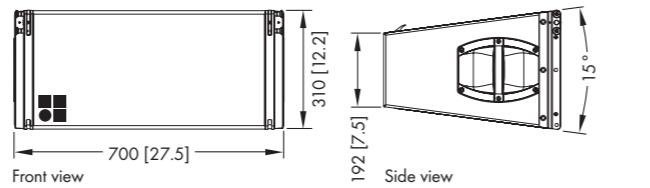
Frequency response (-5 dB standard) 67 Hz - 18 kHz
 Frequency response (-5 dB CUT mode)..... 100 Hz - 18 kHz
 Max. sound pressure (1 m, free field)¹
 with 30D/D20..... 139 dB
 with D80 142 dB

Loudspeaker data

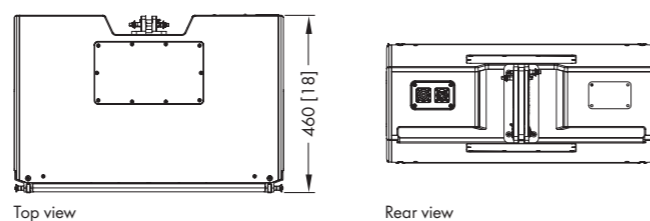
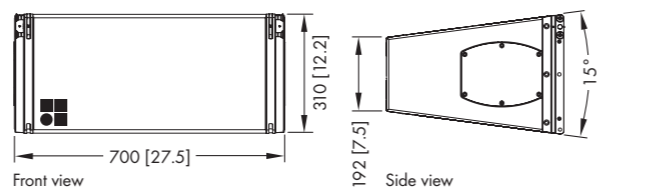
Nominal impedance 8 ohms
 Power handling capacity (RMS/peak 10 msec) 500/2000 W
 Nominal dispersion angle (horizontal) 80°
 Splay angle settings 0° - 14°
 1° increment
 Components 2 x 10" driver
 1 x 8" driver
 2 x 1.4" exit compression driver
 passive crossover network
 Connections V8 2 x NLT4 F/M
 optional 2 x NL4 or 2 x EP5
 Connections Vi8 2 x NL4
 Weight 34 kg (75 lb)



V8 and Vi8 horizontal dispersion characteristics²



V8 cabinet dimensions in mm [inch]



Vi8 cabinet dimensions in mm [inch]

¹ 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 V12 loudspeaker The Vi12 loudspeaker

V12/Vi12 loudspeaker

The V12 and Vi12 are line array loudspeakers, the Vi12 loudspeaker is the installation version of the V12 loudspeaker. They are 3-way passive designs featuring two 10" LF drivers, one hornloaded 8" MF driver and two 1.4" exit HF compression drivers with 2.5" voicecoils mounted to a dedicated waveshaping device. The symmetrical dipolar arrangement of the neodymium LF drivers around the centrally mounted coaxial MF and HF components allows a smooth overlap of the adjacent frequency bands in the crossover design. This results in an exceptional 120° horizontal constant directivity dispersion control nominally being maintained down to 250 Hz.

The mechanical and acoustical design enables flown vertical arrays of up to twenty four loudspeakers to be suspended using vertical splay angles between them of 0° to 14° with a 1° resolution. It can be used in columns of purely V12 or Vi12 loudspeakers or combined with V8/Vi8s and/or with V-SUB/Vi-SUBs.

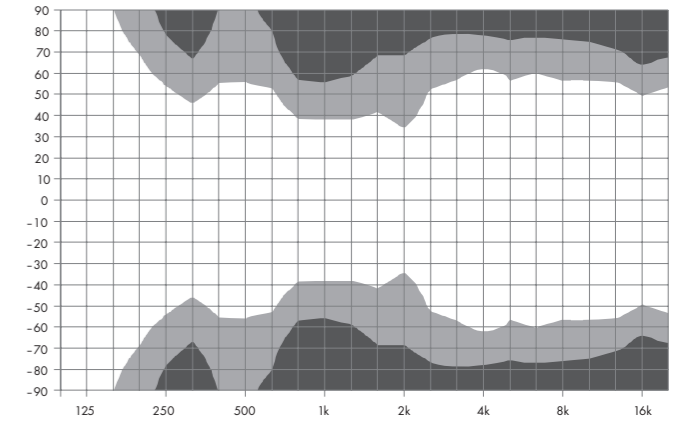
The cabinet is constructed from marine plywood and has an impact and weather protected PCP (Polyurea Cabinet Protection) finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. Each side panel of the V12 cabinet incorporates a handle while two additional recessed grips are provided at the rear bottom of both the V12 and Vi12.

System data

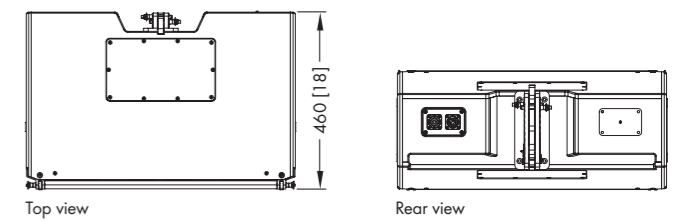
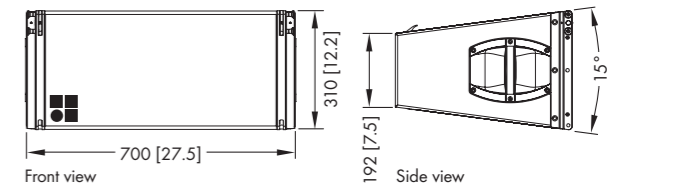
Frequency response (-5 dB standard) 67 Hz - 18 kHz
 Frequency response (-5 dB CUT mode)..... 100 Hz - 18 kHz
 Max. sound pressure (1 m, free field)¹
 with 30D/D20..... 139 dB
 with D80 142 dB

Loudspeaker data

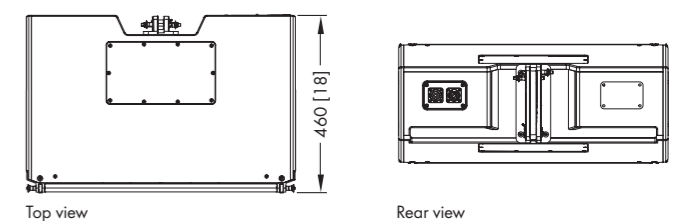
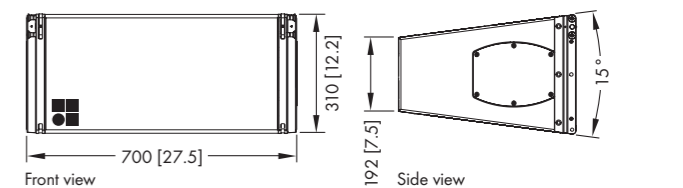
Nominal impedance 8 ohms
 Power handling capacity (RMS/peak 10 msec) 500/2000 W
 Nominal dispersion angle (horizontal) 120°
 Splay angle settings 0° - 14°
 1° increment
 Components 2 x 10" driver
 1 x 8" driver
 2 x 1.4" exit compression driver
 passive crossover network
 Connections V12 2 x NLT4 F/M
 optional 2 x NL4 or 2 x EP5
 Connections Vi12 2 x NL4
 Weight 34 kg (75 lb)



V12 and Vi12 horizontal dispersion characteristics²



V12 cabinet dimensions in mm [inch]



Vi12 cabinet dimensions in mm [inch]

¹ 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 V subwoofer

The Vi subwoofer

V/Vi subwoofer

The V-SUB/Vi-SUB are actively driven high performance cardioid subwoofers powered by a single amplifier channel. The V-SUB and Vi-SUB feature integrated rigging equipment, and share the same acoustical and visual design as the V-GSUB and Vi-GSUB, which are intended for ground stacked applications only. The Vi-SUB is the installation version of the V-SUB. They house two long excursion neodymium drivers, an 18" driver in a bass-reflex design facing to the front and a 12" driver in a two chamber bandpass design radiating to the rear. The cardioid dispersion pattern resulting from this arrangement avoids unwanted energy behind the system that reduces the excitation of the reverberant field at low frequencies and provides the greatest accuracy of low frequency reproduction.

The V-SUB and Vi-SUB can be used to supplement V8/Vi8 and V12/Vi12 loudspeakers in various combinations, ground stacked or flown, either integrated on top of a V8/V12 or Vi8/Vi12 array or as a separate column.

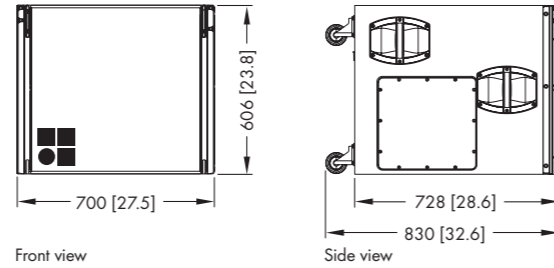
The cabinet is constructed from marine plywood and has an impact and weather protected PCP (Polyurea Cabinet Protection) finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. Each side of the V subwoofer panel incorporates two handles whilst the top panel has an M20 high stand flange inserted.

System data

Frequency response (-5 dB standard) 37 - 115 Hz
 Frequency response (-5 dB 100 Hz mode) 37 - 95 Hz
 Max. sound pressure (1 m, free field)¹
 with 30D/D20 133 dB
 with D80 137 dB

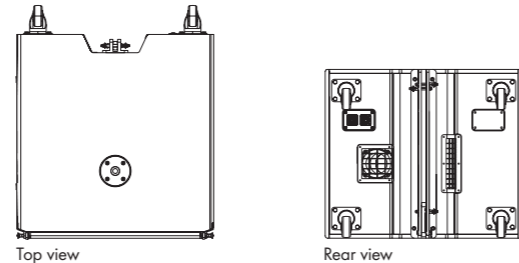
Loudspeaker data

Nominal impedance 8 ohms
 Power handling capacity (RMS/peak 10 msec) 800/3200 W
 Splay angle settings 0° and 2.5°
 Components 1 x 18" driver
 1 x 12" driver
 Connections V-SUB 2 x NLT4 F/M
 optional 2 x NL4 or 2 x EP5
 Connections Vi-SUB 2 x NL4
 Weight V-SUB/Vi-SUB 64/62 kg (141/137 lb)



Front view

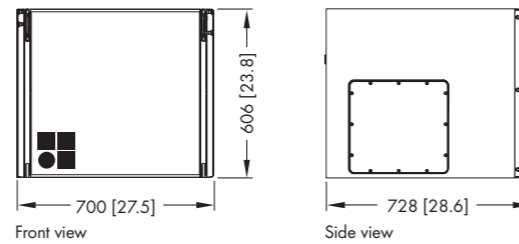
Side view



Top view

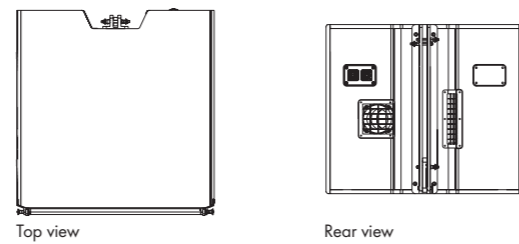
Rear view

V-SUB cabinet dimensions in mm [inch]



Front view

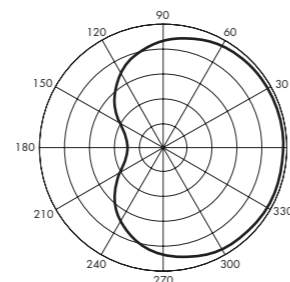
Side view



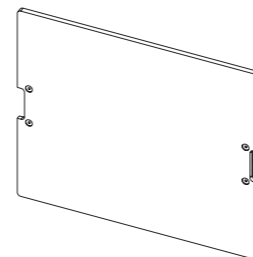
Top view

Rear view

Vi-SUB cabinet dimensions in mm [inch]



Cardioid polar pattern



E7923 V-SUB Wooden lid

The Vi Weather Resistant and Special Colour options

The Vi cabinets and appropriate accessories are also available with a Weather Resistant or Special Colour option. Both options can be combined.

Weather Resistant (WR) option

The WR option enables operation of loudspeakers in changing ambient conditions, however it is not intended to enable permanent, unprotected operation of loudspeakers outdoors. Cabinets being used outdoors even with the WR option should always be aimed either horizontally or with a downward tilt. An additional cover should be positioned over the loudspeakers. Vi loudspeakers with the Weather Resistant option are supplied with a fixed cable. PG cable type H-07-RN-F 2 x 2.5 mm²/AWG 13 with a length of 5.5 m (18 ft) as standard or length as required.

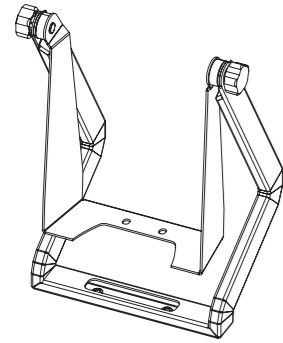
Special Colour (SC) option

The paint finish of all loudspeaker cabinets and most accessories can be executed in almost all RAL colours in accordance with the RAL colour table. 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 RAL colour.

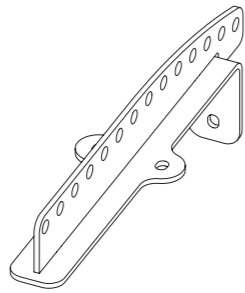
The V7P/Vi7P, V10P/Vi10P and V-GSUB/Vi-GSUB mounting accessories

Safety approval

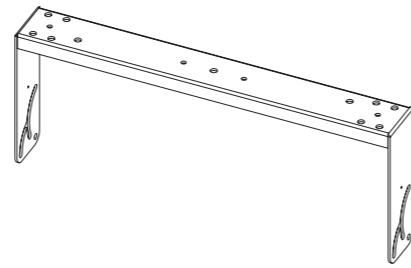
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



Z5383
VP Mounting bracket



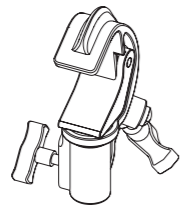
Z5384
VP Flying adapter



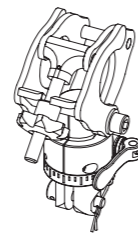
Z5388
VP Horizontal bracket



Z5550
M20 Stand adapter



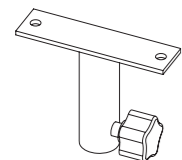
Z5012
Pipe clamp for TV spigot
For a tube diameter up to 70 mm/2.75"



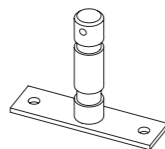
Z5147
Rota clamp
WLL: 500 kg (1100 lb)
for a tube diameter up to 51 mm/2"



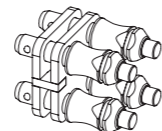
Z5049
Flying pin 8mm¹



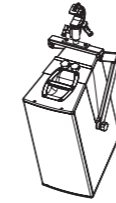
Z5024
Loudspeaker stand adapter



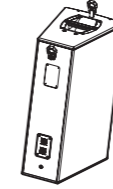
Z5010
TV Spigot with fixing plate



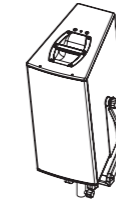
Z5551
VP Flying adapter link



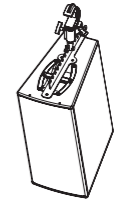
V7P/V10P with
Z5383 VP Mounting bracket
Z5010 TV Spigot with fixing plate
Z5012 Pipe clamp



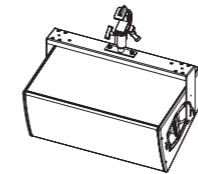
V7P/V10P¹ with
Z5012 Flying pin 8mm



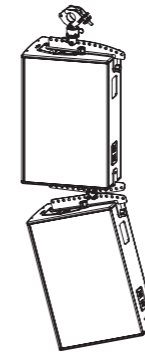
V7P/V10P with
Z5383 VP Mounting bracket
Z5010 TV Spigot with fixing plate
Z5024 Loudspeaker stand adapter



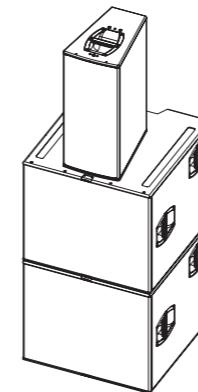
V7P/V10P with
Z5384 VP Flying adapter
Z5015 TV Spigot for flying adapter 02
Z5012 Pipe clamp



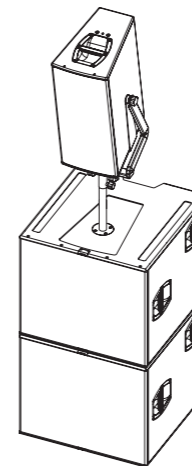
V7P/V10P with
Z5388 VP Horizontal bracket
Z5010 TV Spigot with fixing plate
Z5012 Pipe clamp



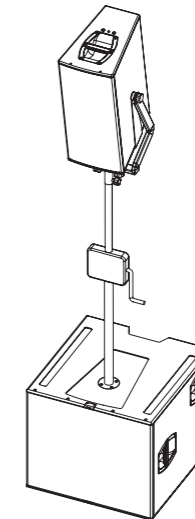
V7P/V10P with
Z5384 VP Flying adapter
Z5147 Rota clamp
Z5551 VP Flying adapter link



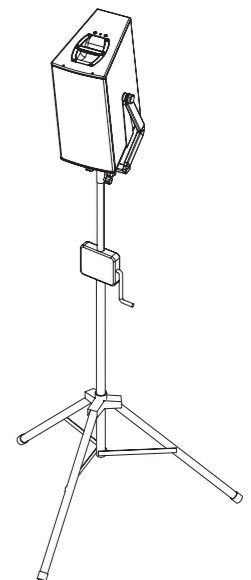
V7P/V10P with V-GSUB



V7P/V10P with
Z5550 M20 Stand adapter



V7P/V10P with
Z5383 VP Mounting bracket
Z5024 Loudspeaker stand adapter
Z5013 Loudspeaker stand winder M20



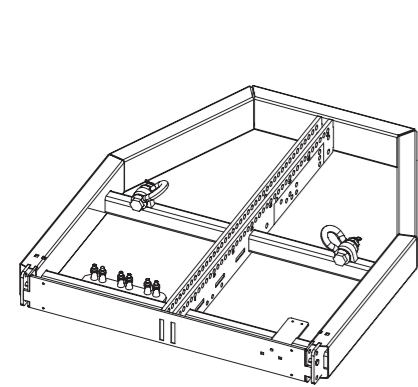
V7P/V10P with
Z5383 VP Mounting bracket
Z5024 Loudspeaker stand adapter
Z5009 Loudspeaker stand with winder

The V8, V12 and V-SUB rigging accessories

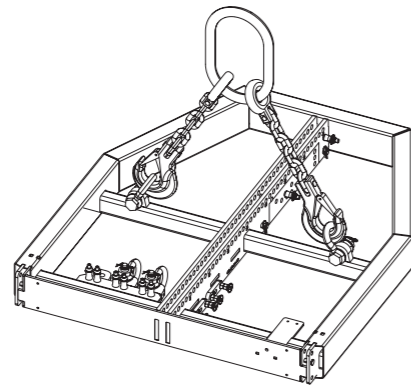
The V8, V12 and V-SUB rigging examples

Safety approval

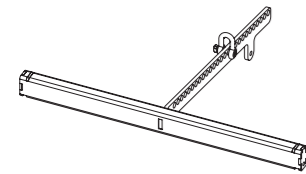
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



Z5380
V Flying frame
For a maximum of twenty four V8/V12 loudspeakers or fourteen V subwoofers



Z5380
V Flying frame
Supplied with
1 x 5382 V Safety chainset
2 x V Load adapter
1 x V Load adapter for Rota clamp
2 x Front link



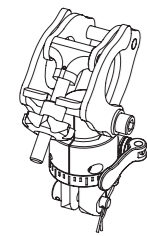
Z5385
V Flying adapter
For a maximum of four V8/V12 loudspeakers; supplied with 1t Shackle



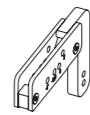
Z5382
V Safety chainset



Z5381
V Hoist connector chain

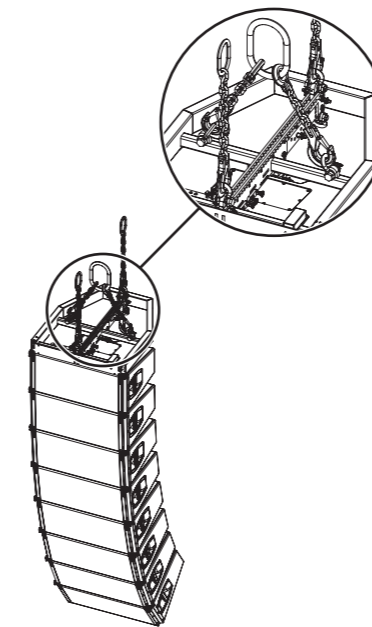


Z5147
Rota clamp
WLL: 500 kg (1100 lb)
for a tube diameter up to 51 mm/2"

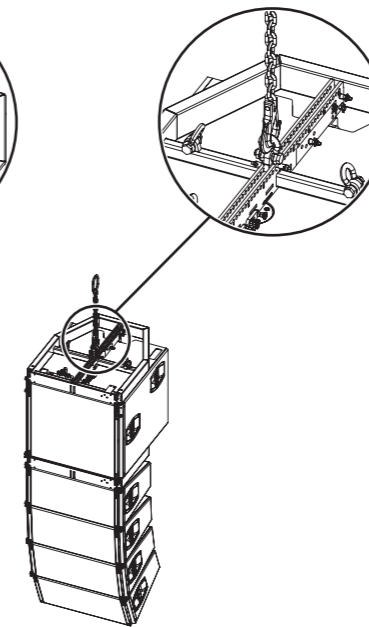


Z5386
V Stack adapter

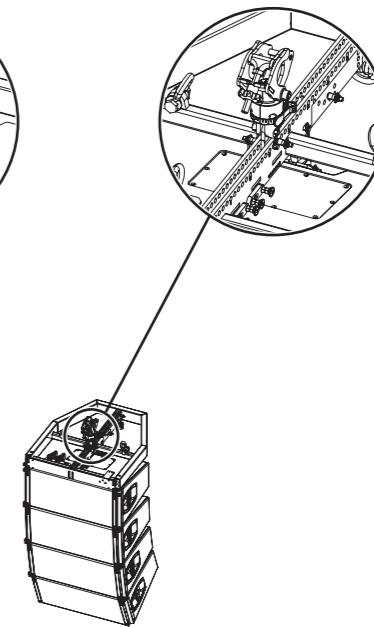
These rigging examples are for illustration only. For further information please refer to the TI 385 d&b Line array design as well as the V-Series Rigging manual, both of which are available for download at www.dbaudio.com.



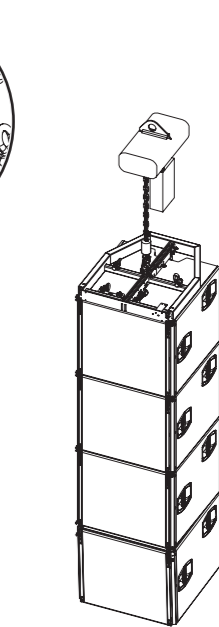
V8/V12 array with Z5380 V Flying frame
2 x Z5381 V Hoist connector chain
Z5382 V Safety chainset



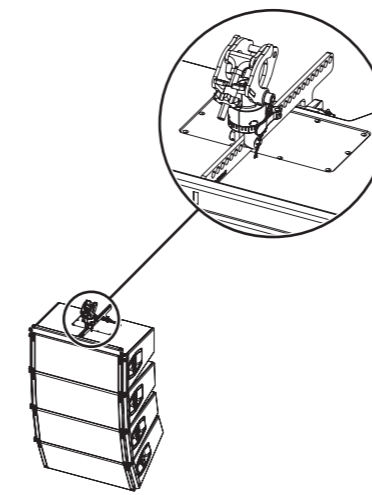
V-Series mixed array with Z5380 V Flying frame
Z5381 V Hoist connector chain



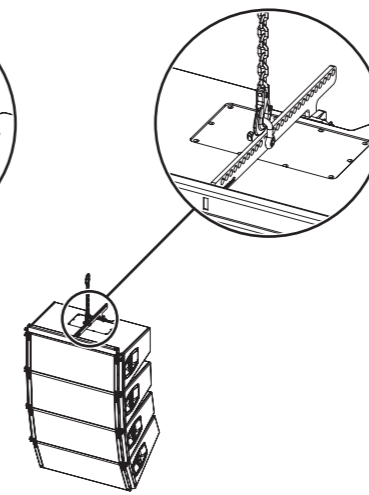
V8/V12 array with Z5380 V Flying frame
Z5147 Rota clamp



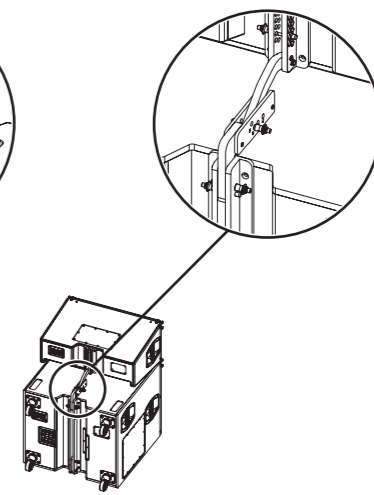
V-SUB column with Z5380 V Flying frame



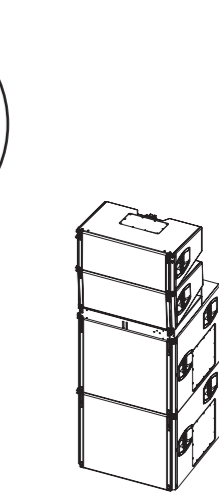
V8/V12 array with Z5385 V Flying adapter
Z5147 Rota clamp



V8/V12 array with Z5385 V Flying adapter
E6507 1t Shackle



V-Series ground stack with Z5386 V Stack adapter



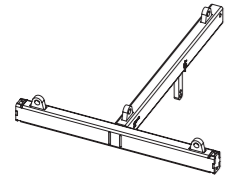
V-Series ground stack with Z5380 V Flying frame

The Vi8, Vi12 and Vi-SUB rigging accessories and examples

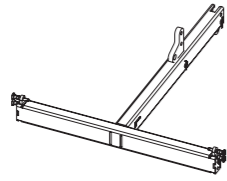
The V8, V12 and V Flying frame cases and carts

Safety approval

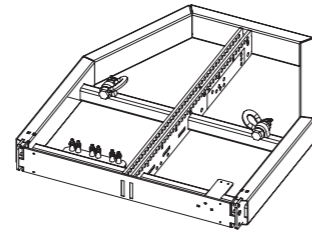
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



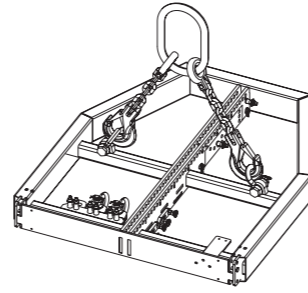
Z5387.000
Vi Mounting frame top
For a maximum load equivalent to four Vi8/Vi12 loudspeakers
136 kg (300 lb)



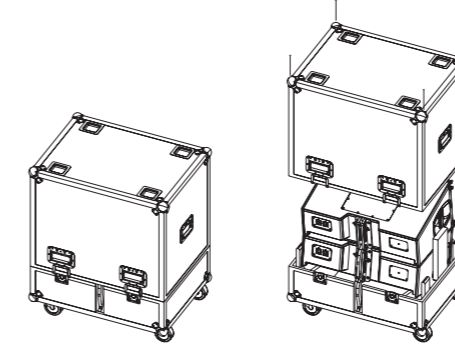
Z5387.001
Vi Mounting frame bottom



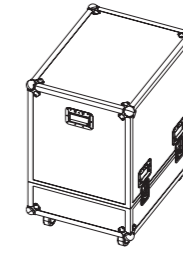
Z5380
V Flying frame
For a maximum of twenty four V8/V12/Vi8/Vi12 loudspeakers or fourteen V/Vi subwoofers



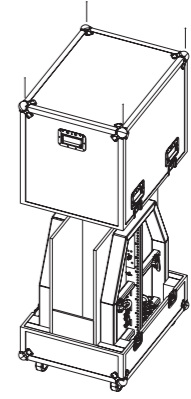
Z5380
V Flying frame
Supplied with
1 x 5382 V Safety chainset
2 x V Load adapter
1 x V Load adapter for Rota clamp
2 x Front link



E7462
Touring case 2 x V8/V12
Dimensions (H x W x D):
900 x 800 x 600 mm
35.4 x 31.5 x 23.6 inch
Net weight: 40 kg (88 lb)



E7465
Touring case 2 x V Flying frame
Dimensions (H x W x D):
970 x 800 x 600 mm
38.2 x 31.5 x 23.6 inch
Net weight: 52 kg (120 lb)



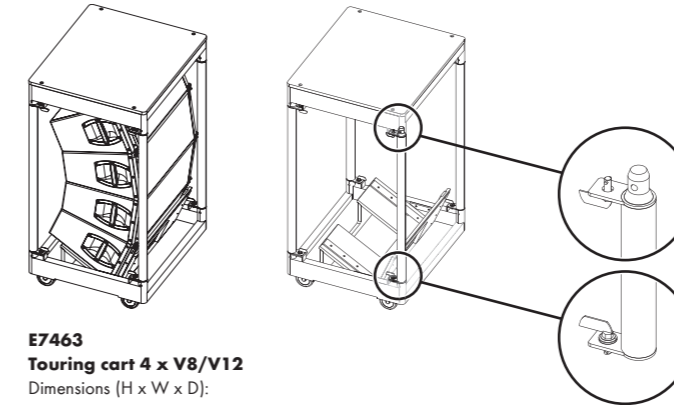
E6507
1t Shackle



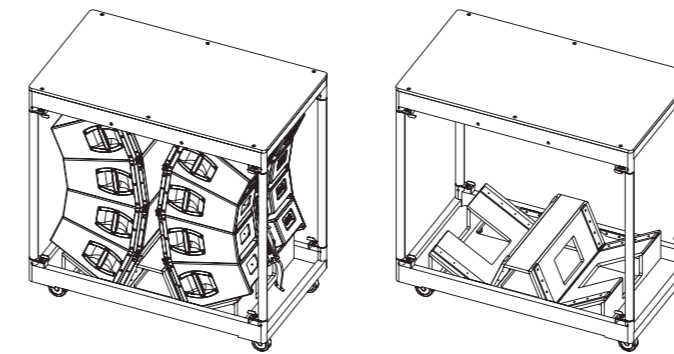
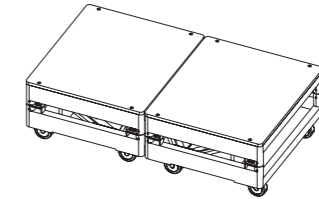
Z5381
V Hoist connector chain



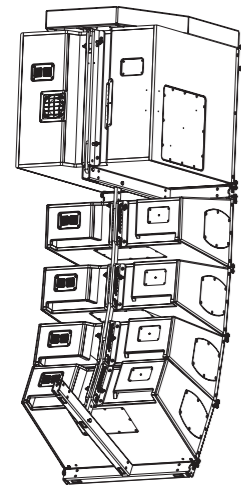
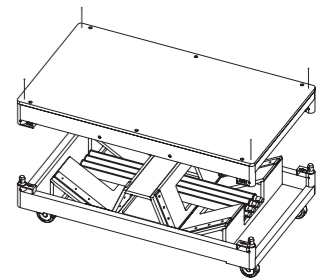
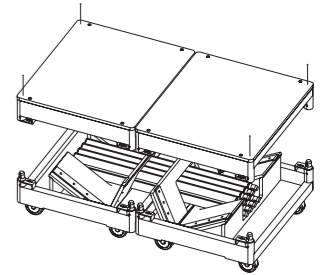
Z5382
V Safety chainset



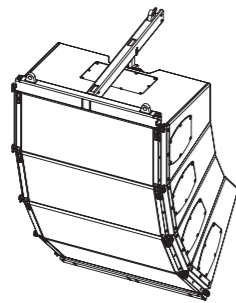
E7463
Touring cart 4 x V8/V12
Dimensions (H x W x D):
1420 x 700 x 800 mm
56 x 27.5 x 31.5 inch
Total weight: 190 kg (420 lb)
Maximum top load: 100 kg (220 lb)



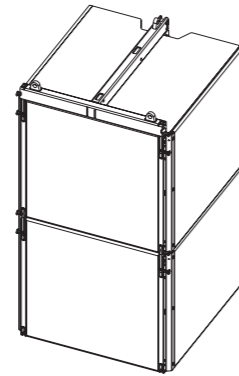
E7464
Touring cart 8 x V8/V12
Dimensions (H x W x D):
1420 x 1400 x 800 mm
56 x 55 x 31.5 inch
Total weight: 360 kg (800 lb)
Maximum top load: 200 kg (440 lb)



Vi array with
Z5380
V Flying frame
Z5387.001
Vi Mounting frame bottom (2pcs)



Vi8/Vi12 array with
Z5387.000
Vi Mounting frame top
Z5387.001
Vi Mounting frame bottom (2pcs)



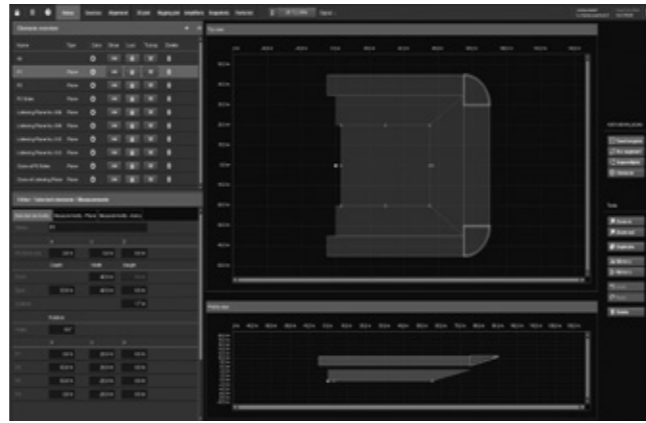
Vi-SUB column with
Z5387.000
Vi Mounting frame top
Z5387.001
Vi Mounting frame bottom (2pcs)

The d&b ArrayCalc simulation software

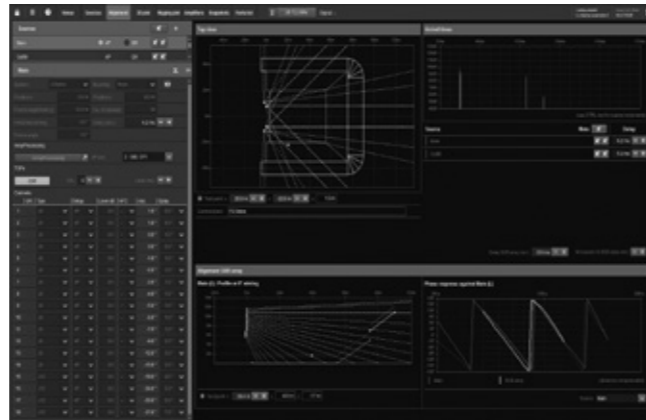
The d&b ArrayCalc simulation software is the prediction tool for d&b line arrays, column and point source loudspeakers as well as subwoofers. This is a comprehensive toolbox for all tasks associated with acoustic design, performance prediction, alignment, rigging and safety parameters. For safety reasons d&b line arrays must be designed using the d&b ArrayCalc simulation software. ArrayCalc is available as a native stand-alone 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

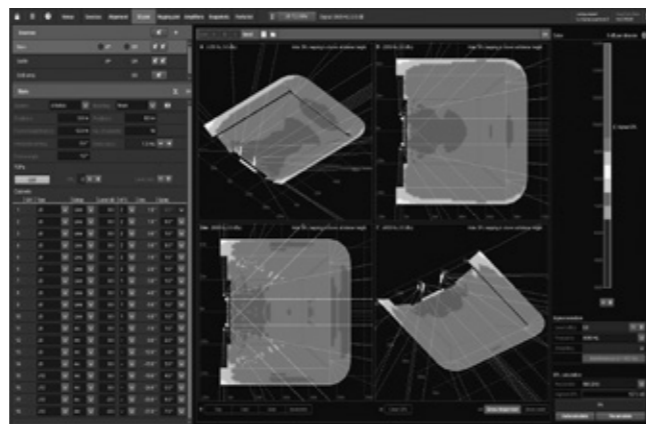
Up to fourteen flown arrays or subwoofer columns can be defined in a project file as single hangs or in pairs. A selection of d&b point source loudspeakers can also be fully integrated as well as a ground stacked SUB array consisting of up to fifty one positions. All can be freely positioned according 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 overhang, is taken into consideration. The load status of all array rigging components is calculated accurately and displayed to determine whether a given 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 alignment 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

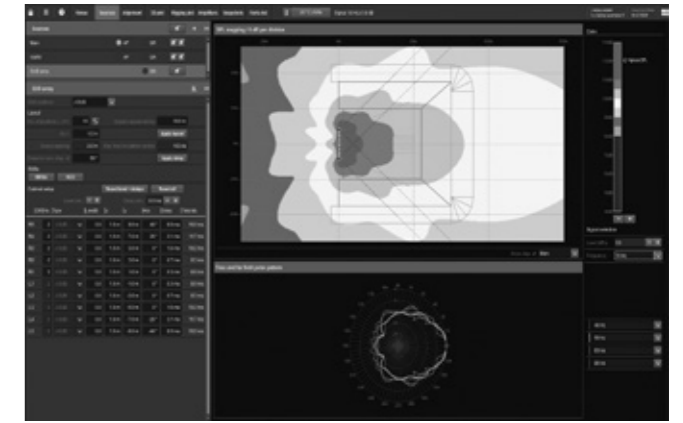
The level distribution resulting from the interaction of all active sources can be mapped onto the audience areas in a three-dimensional view, which can also be zoomed, rotated and exported as a graphics file. EASE and DXF data export capabilities are also available. A rigging plot with all necessary 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

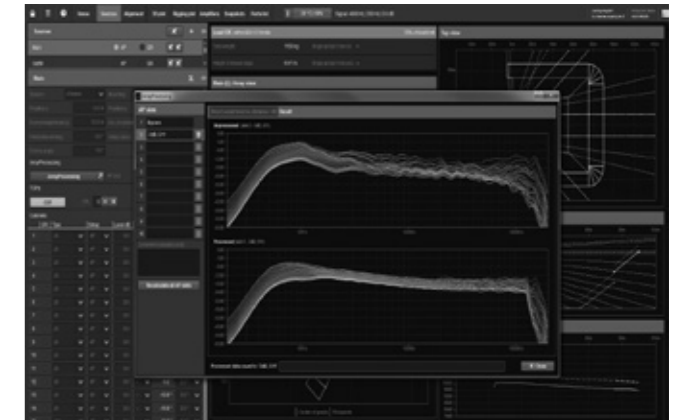
The optional ArrayProcessing function applies powerful filter algorithms to optimize the tonal (spectral) and level (spatial) performance of a line array column over the audience area defined by its mechanical vertical coverage angle. Within the d&b ArrayCalc simulation software, spectral and level performance 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

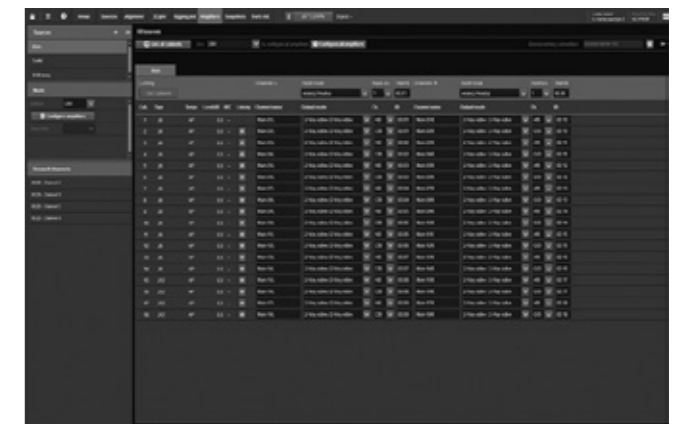
R1 uses the same project file created by ArrayCalc and generates an intuitive graphical user interface including complete details of the simulated system, loudspeakers, amplifiers, remote IDs, groups, ArrayProcessing data and all configuration information. This workflow removes the need to manually transfer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



Sources, SUB array



ArrayProcessing



Amplifiers

¹ 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

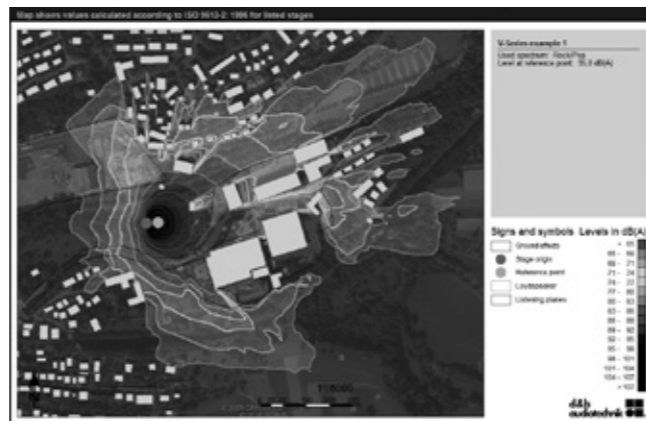
The d&b software uses international standards to model the far field noise immission from multiple complex and coherently emitting sources such as line arrays and subwoofer arrays. Gaining permission and licenses to stage live open air events often requires an official statement with a prediction of how noise could impact on the surrounding area. Careful planning of the combined directivity and the direction can influence the immission result outside of the event 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.

The results are displayed on a 3D terrain map showing 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 the results are reliable, 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 further information and video tutorials. It was developed in collaboration with SoundPLAN, a specialist software developer for environmental noise prediction.



Editor



Graphic plot

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 through the d&b Remote network, to controls as well as detailed system and device diagnostics information, 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 ArrayCalc Simulation Software and applies these to all the amplifiers within the network. R1 uses the same project file created by ArrayCalc allowing system configuration to be quickly accomplished, providing more time for verification and fine tuning.

All features, 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 system integrators can configure the d&b Remote Network to offer access to different levels of control, tailored to the operational demands. For example, power ON/OFF for daily use, or more complex functionality for detailed control. Password protection is available to restrict access. Input and Load monitoring allow installation operators to ensure optimum performance at all times. The d&b R1 Remote control software enables d&b amplifiers to be remotely controlled using both Ethernet and CAN-Bus in parallel. The 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) operating systems. 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



16-band equalizer

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The d&b amplifiers

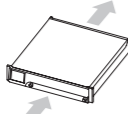
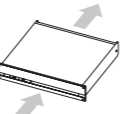
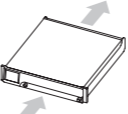
The d&b amplifiers are designed specifically to power d&b loudspeakers and are the beating heart of the d&b System reality. As such, they incorporate Digital Signal Processing for comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls, to fulfil 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 |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| User interface | Encoder/colour TFT touchscreen | LED indicators | Encoder/colour TFT touchscreen |
| Output channels | 4 | 4 | 4 |
| 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 |
| Latency | 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 |
| Delay | 10 sec/3440 m | 10 sec/3440 m | 10 sec/3440 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 |
| 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 |
| Output connectors | NL4/EP5 plus central NL8 | Phoenix Euroblock | NL4 plus central NL8 |
| GPIO connector, 5 ports | No | Phoenix Euroblock | No |
| Cable compensation | LoadMatch | LoadMatch | LoadMatch |
| 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 |
| Mains voltage | 100 - 127/208 - 240 V, 50 - 60 Hz | 100 - 240 V, 50 - 60 Hz | 100 - 240 V, 50 - 60 Hz |
| Weight (kg/lb) | 19/42 | 10.6/23.4 | 10.8/23.8 |
| Dimensions | 2 RU x 19" x 530 mm | 2 RU x 19" x 435 mm | 2 RU x 19" x 460 mm |
| Remote | OCA via Ethernet/CAN | OCA via Ethernet/CAN | OCA via Ethernet/CAN |
| Airflow |  |  |  |

The d&b amplifier controller setups and operation with d&b amplifiers

Arc and Line mode

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 it is now configured for use with the d&b V or J 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 30 m (100 ft) and HFC2 for those covering distances larger than 60 m (200 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. 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 2 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.

Recommended amplifiers for mobile applications

| | V7P | V10P | V-GSUB | V8 | V12 | V-SUB |
|------------|-----|------|--------|----|-----|-------|
| D80 | x | x | x | x | x | x |

Recommended amplifiers for installation applications

| | Vi7P | Vi10P | Vi-GSUB | Vi8 | Vi12 | Vi-SUB |
|------------|------|-------|---------|-----|------|--------|
| 30D | x | x | x | x | x | x |

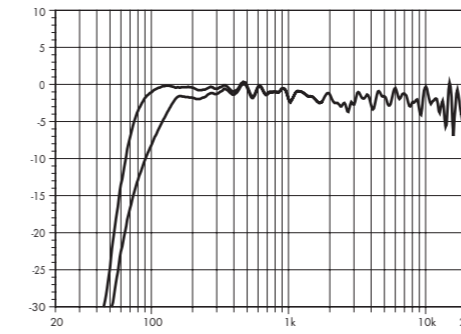
Maximum loudspeakers per amplifier channel

| | V7P | V10P | V-GSUB | V8 | V12 | V-SUB |
|--|------|-------|---------|-----|------|--------|
| | Vi7P | Vi10P | Vi-GSUB | Vi8 | Vi12 | Vi-SUB |
| | 2 | 2 | 2 | 2 | 2 | 2 |

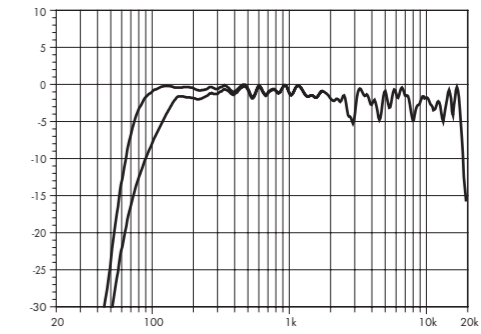
Available controller settings

| | V7P | V10P | V-GSUB | V8 | V12 | V-SUB |
|-----------------|------|-------|---------|-----|------|--------|
| | Vi7P | Vi10P | Vi-GSUB | Vi8 | Vi12 | Vi-SUB |
| Arc/Line | | | | x | x | |
| AP | | | | x | x | x |
| CUT | x | x | | x | x | |
| HFC | | | | x | x | |
| HFA | x | x | | | | |
| CPL | x | x | | x | x | |
| 100 Hz | | | x | | | x |

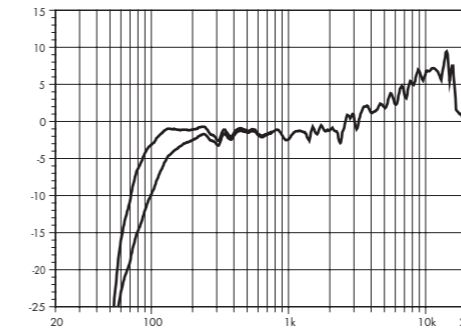
The V-Series frequency responses



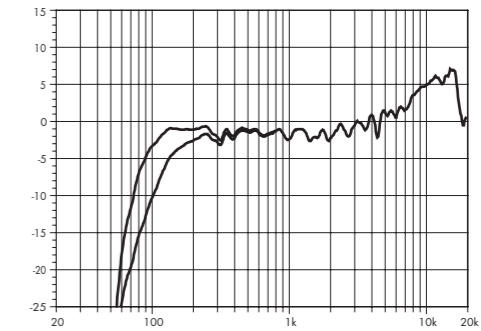
V7/Vi7P standard and CUT (single cabinet)



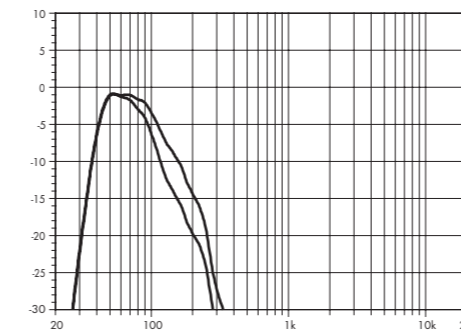
V10/Vi10P standard and CUT (single cabinet)



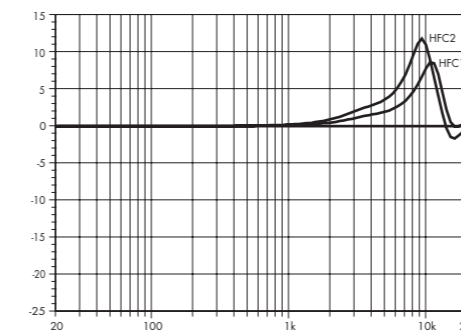
V8/Vi8 standard and CUT (single cabinet)



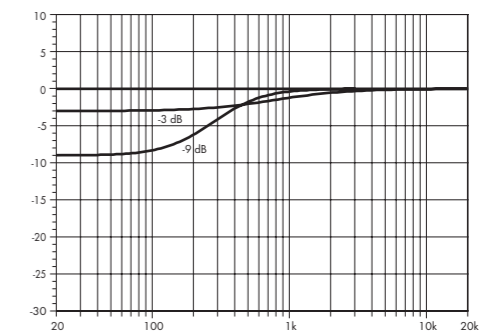
V12/Vi12 standard and CUT (single cabinet)



V-SUB/Vi-SUB and V-GSUB/Vi-GSUB standard and 100 Hz

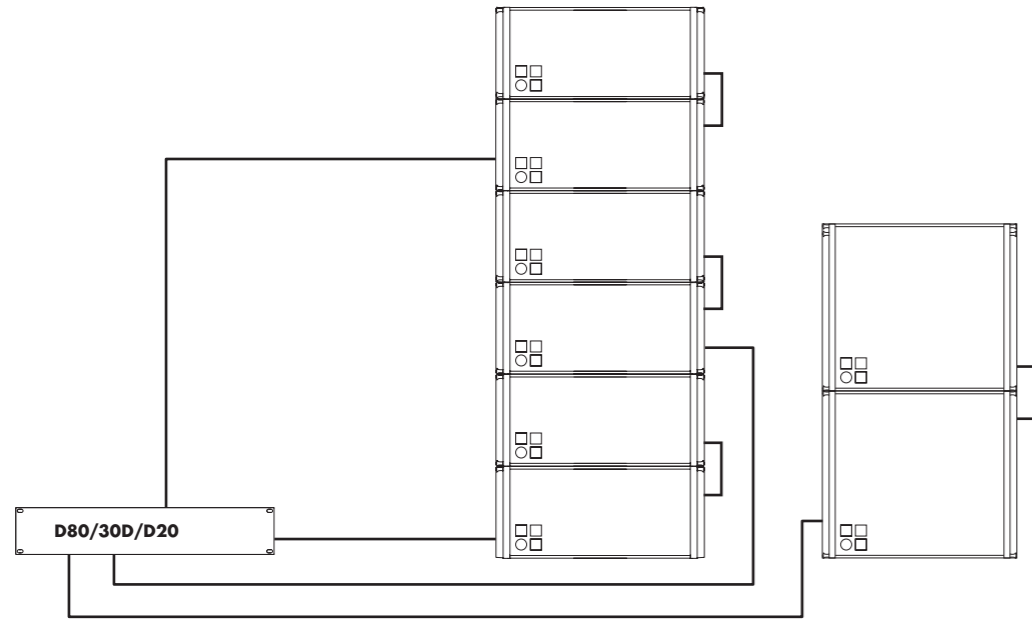


Correction of HFC*
*schematic diagram

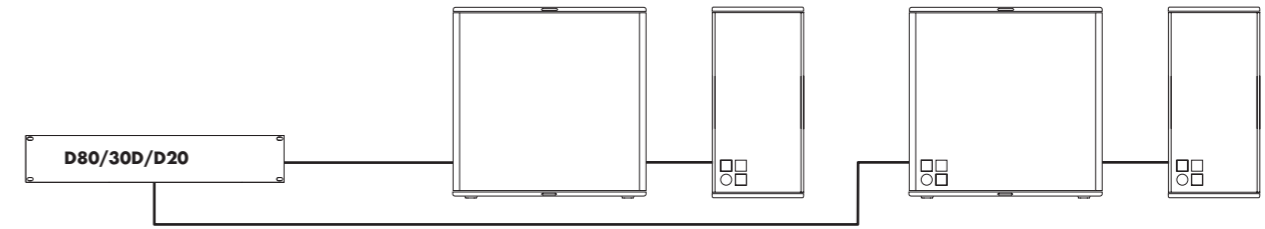


Correction of CPL*
*schematic diagram

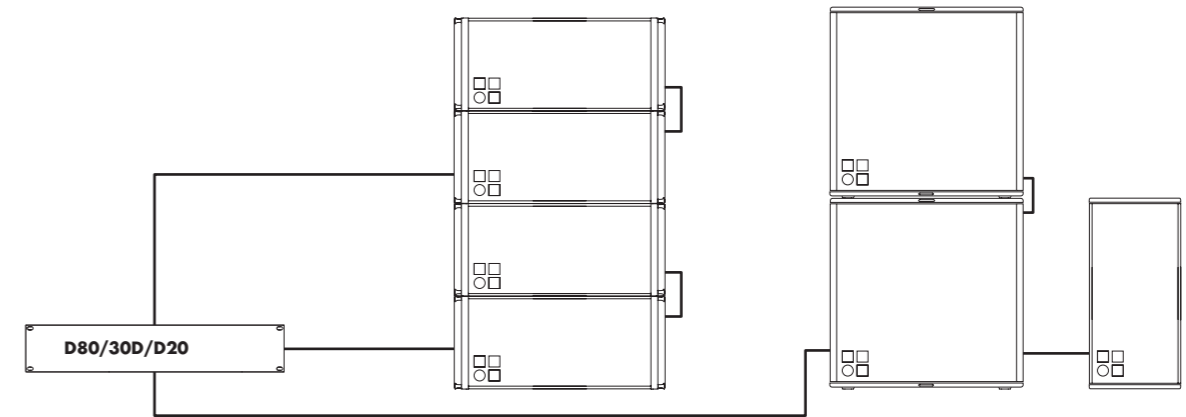
The d&b amplifier output modes



D80/30D/D20 amplifier in Dual Channel mode for V7P, V10P, Vi7P, Vi10P, V8, Vi8, V12, Vi12 as well as V-GSUB, Vi-GSUB, V-SUB and Vi-SUB



D80/30D/D20 amplifier in Mix TOP/SUB mode for V7P, V10P, Vi7P, Vi10P, V8, V12, Vi8, Vi12 as well as V-GSUB, Vi-GSUB, V-SUB and Vi-SUB as well as V-GSUB, Vi-GSUB, V-SUB and Vi-SUB



D80/30D/D20 amplifier in a mixed configuration of Dual Channel and Mix TOP/SUB mode for V7P, V10P, Vi7P, Vi10P, V8, V12, Vi8, Vi12 as well as V-GSUB, Vi-GSUB, V-SUB and Vi-SUB

The DS10 Audio network bridge

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.

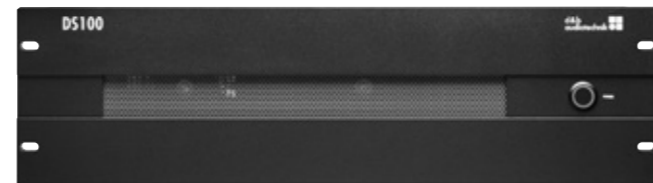
The DS10 incorporates an integrated 5-port switch, offering a primary and redundant network for the Dante protocol, as well as advanced functions such as Multicast Filtering and VLAN modes. Using the DS10 Audio network bridge, audio signals and remote control data can be combined using a single Ethernet cable.



The DS10 Audio network bridge front view



The DS10 Audio network bridge rear view



The DS100 Signal Engine front view

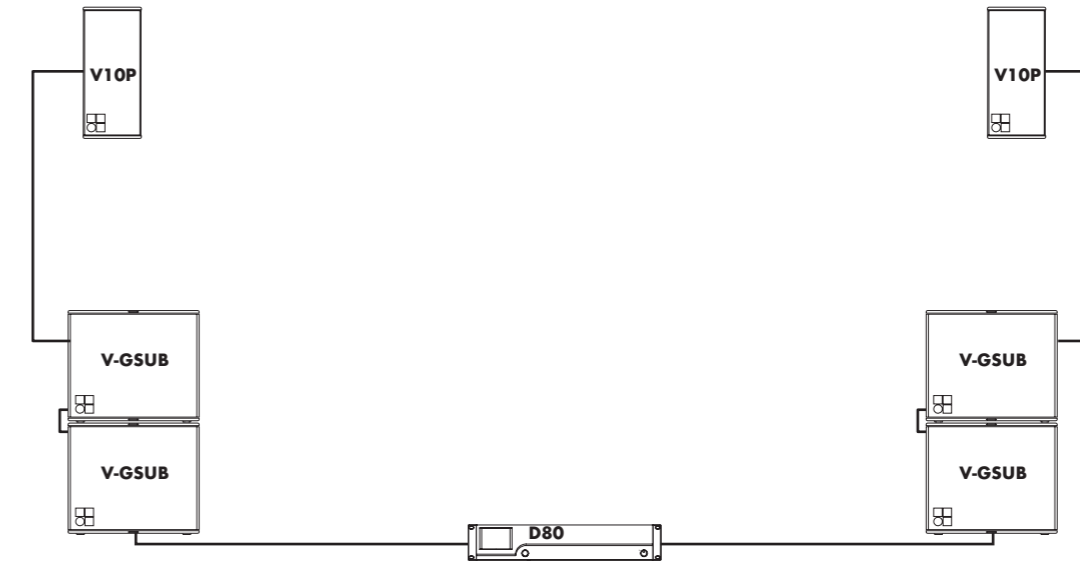
DS100 Signal Engine

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.

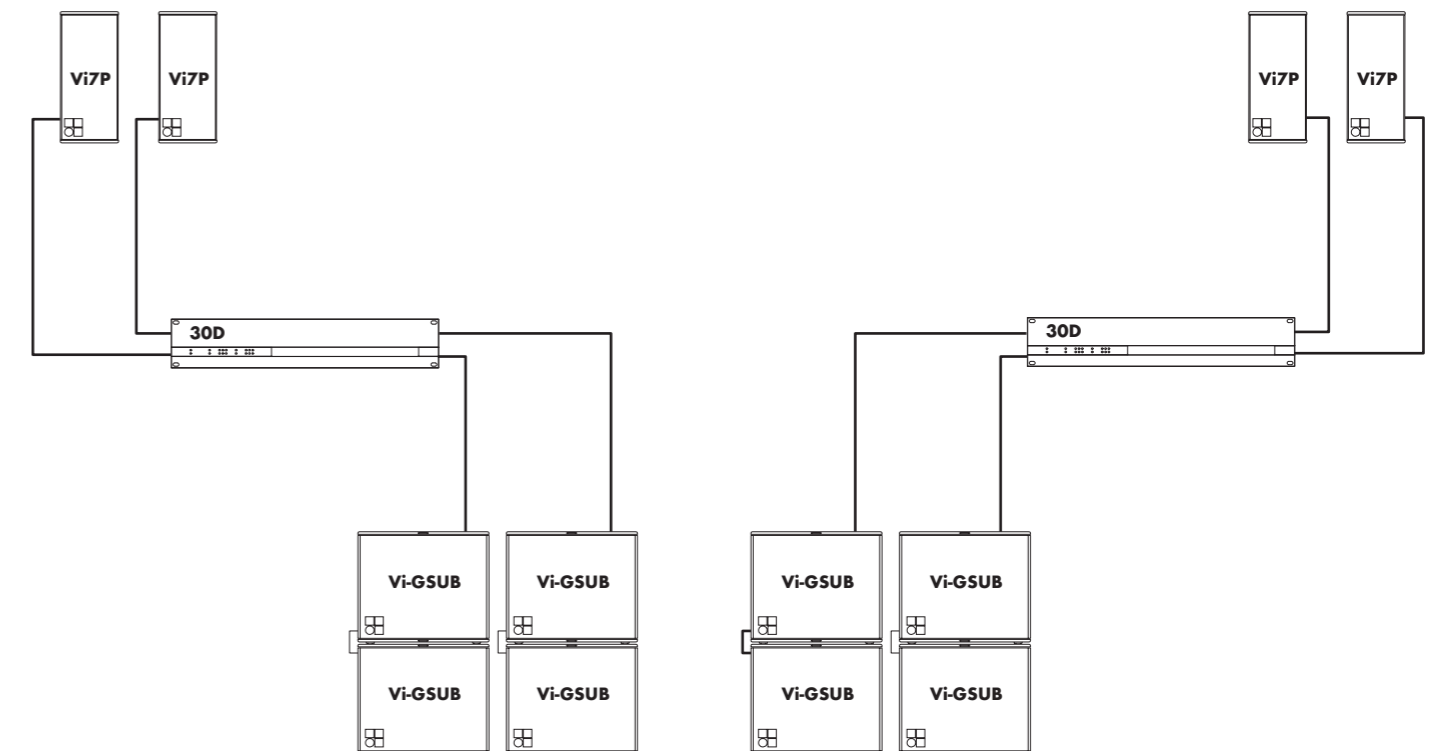
The DS100 is a versatile tool for use within complex audio systems to route and distribute multiple audio channels to numerous amplifiers driving loudspeaker positions and zones, show relay and break out rooms. The networking capabilities with a Dante enabled processor are significant, particularly for 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 V-Series configuration examples

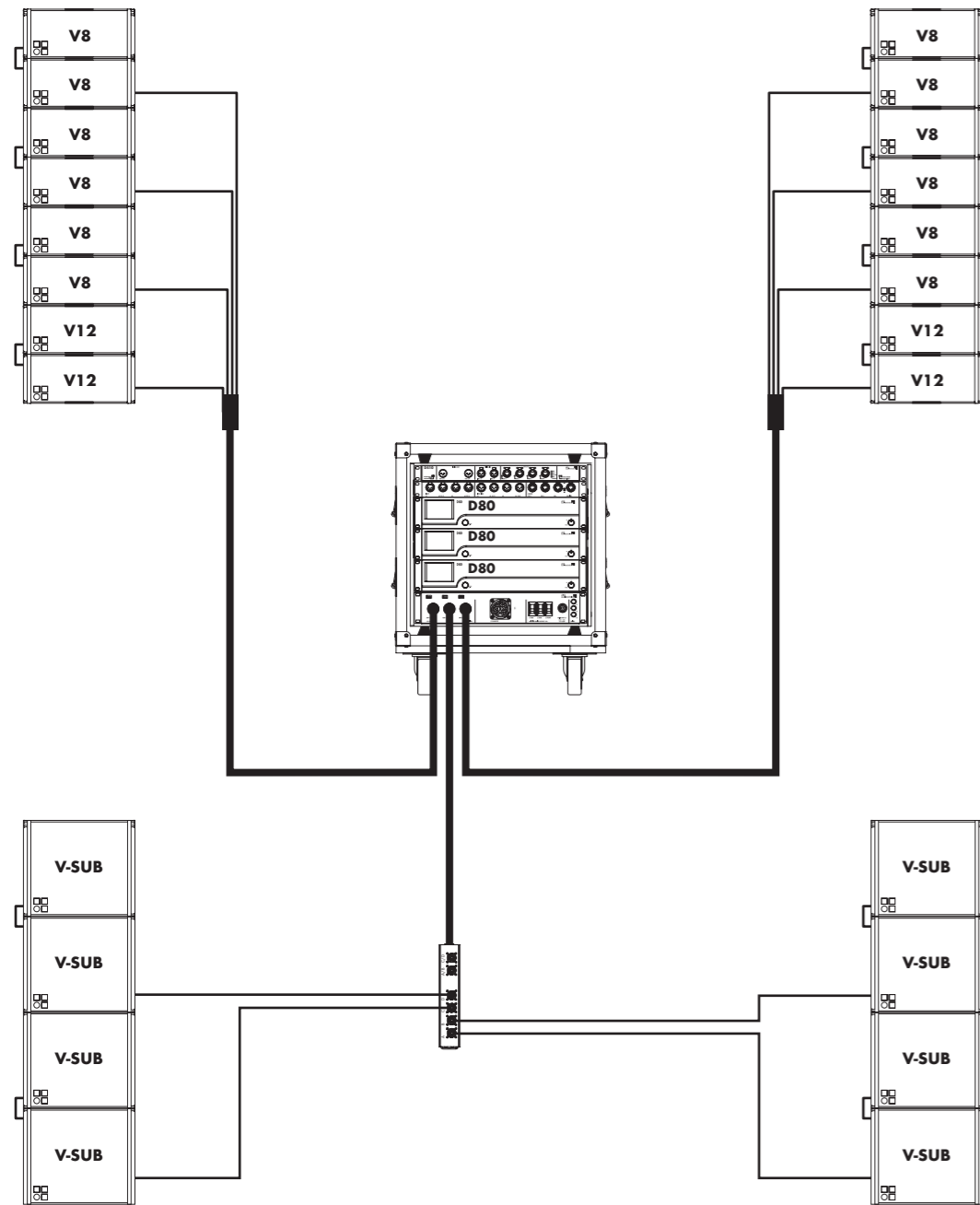


V-Series L/R configuration comprising V10Ps and V-GSUBs with a D80 amplifier in Mix TOP/SUB mode

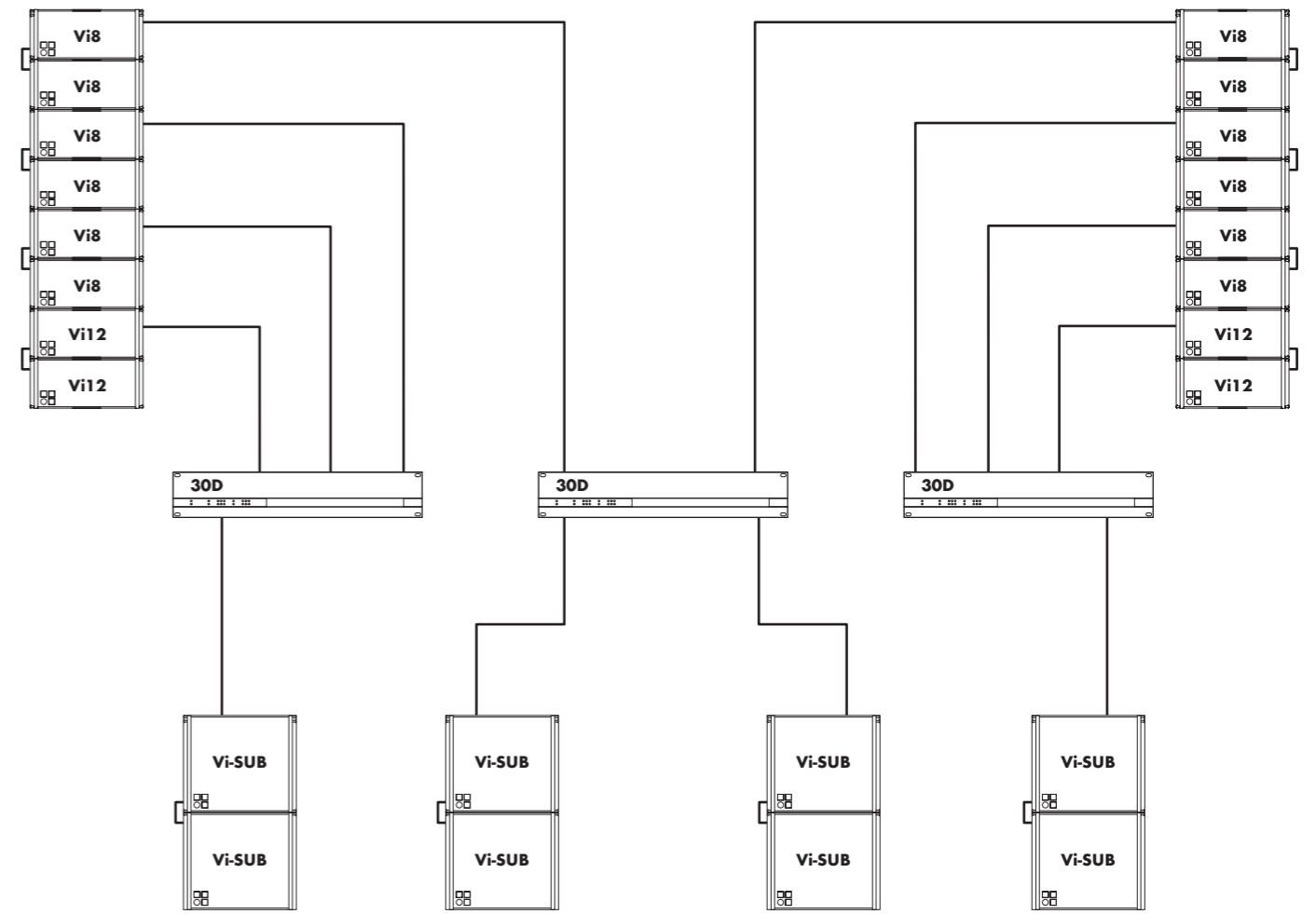


Vi7P loudspeakers in a distributed point source system and ground stacked Vi-GSUBs, with 30D amplifiers in Dual Channel mode

The V-Series configuration examples



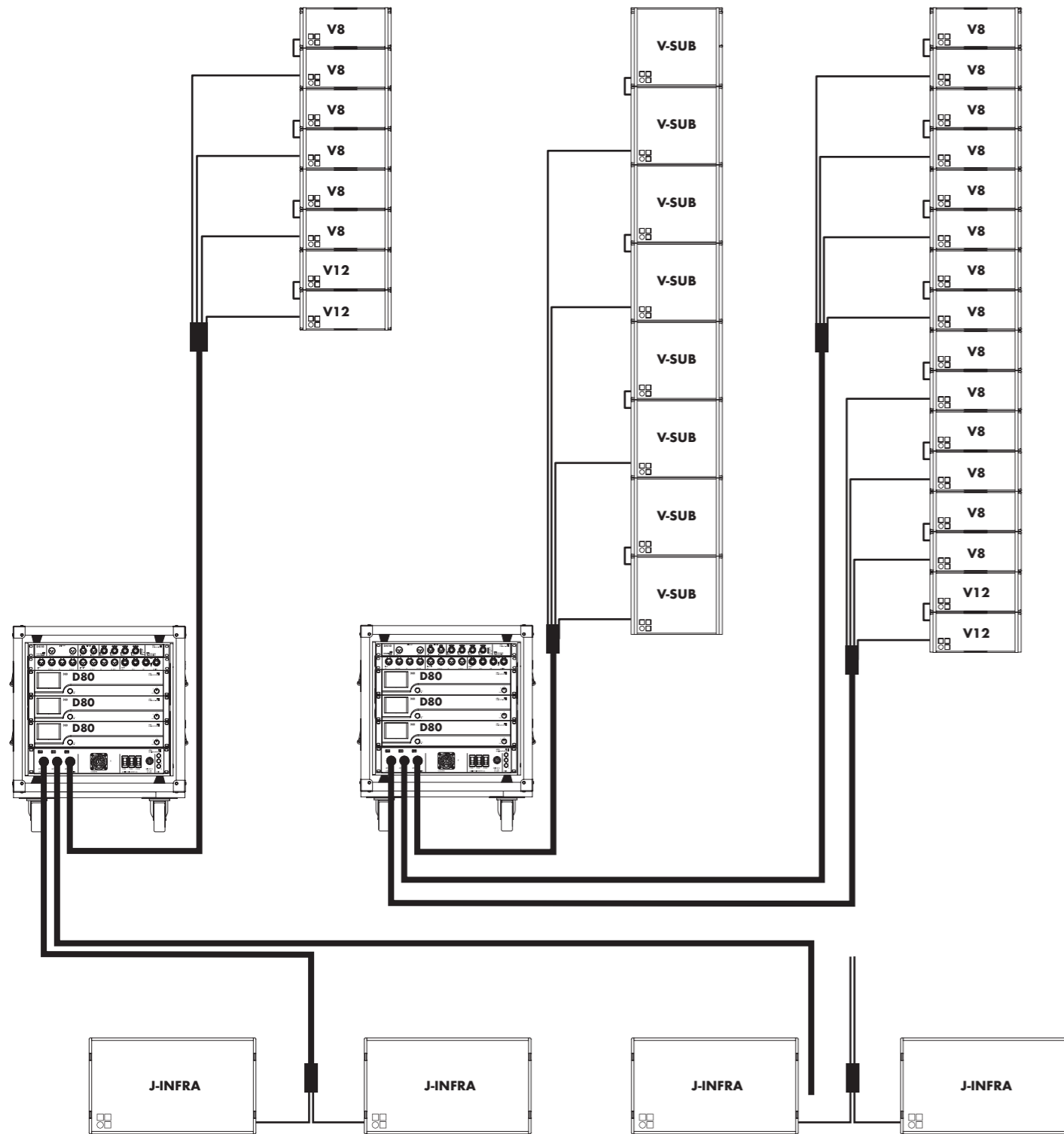
V-Series L/R configuration with V8/V12 flown line array and ground stacked V-SUBs with D80 Touring rack



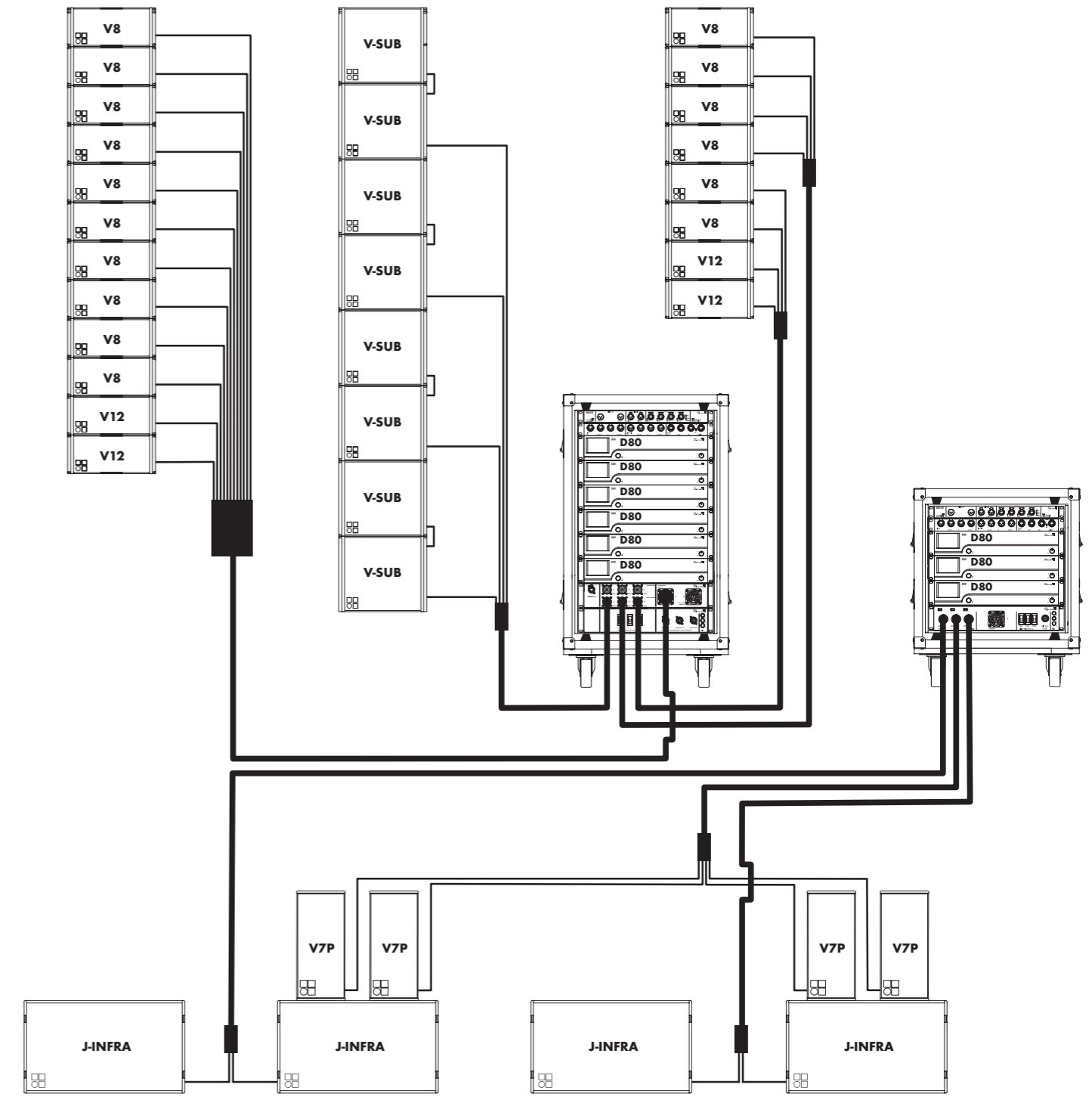
Vi line array in L/R configuration with flown Vi8/Vi12s with ground stacked Vi-SUBs with 30D amplifiers in Dual Channel mode

The V-Series configuration examples

The V-Series configuration examples with ArrayProcessing

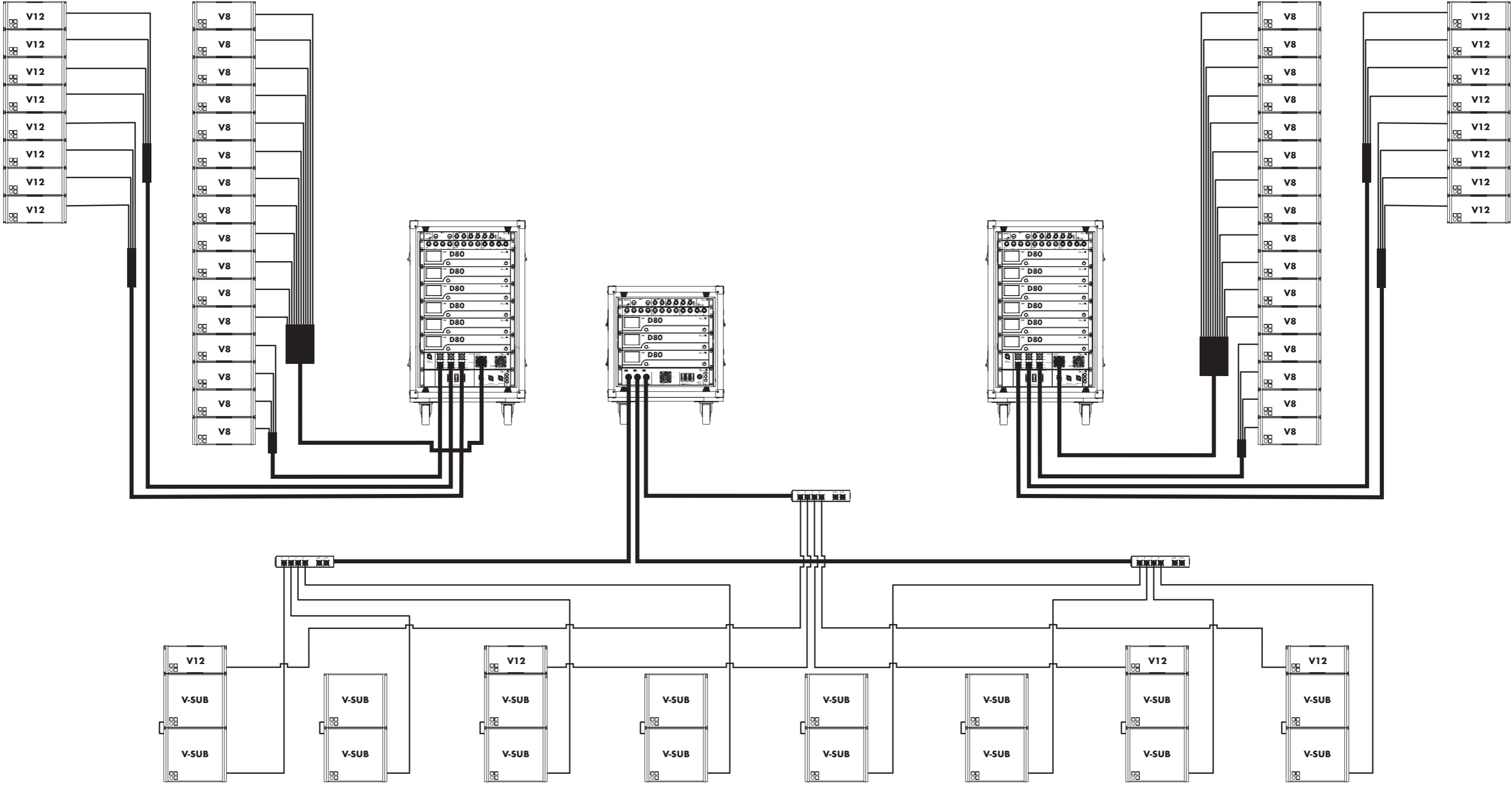


V8/V12 and V-SUB main arrays, V8/V12 outfills and ground stacked J-INFRAs with D80 Touring racks¹



V8/V12 main array and V8/V12 outfills driven with ArrayProcessing with flown V-SUB array and ground stacked J-INFRAs and V7P nearfills with D80 Touring racks¹

The V-Series configuration examples with ArrayProcessing

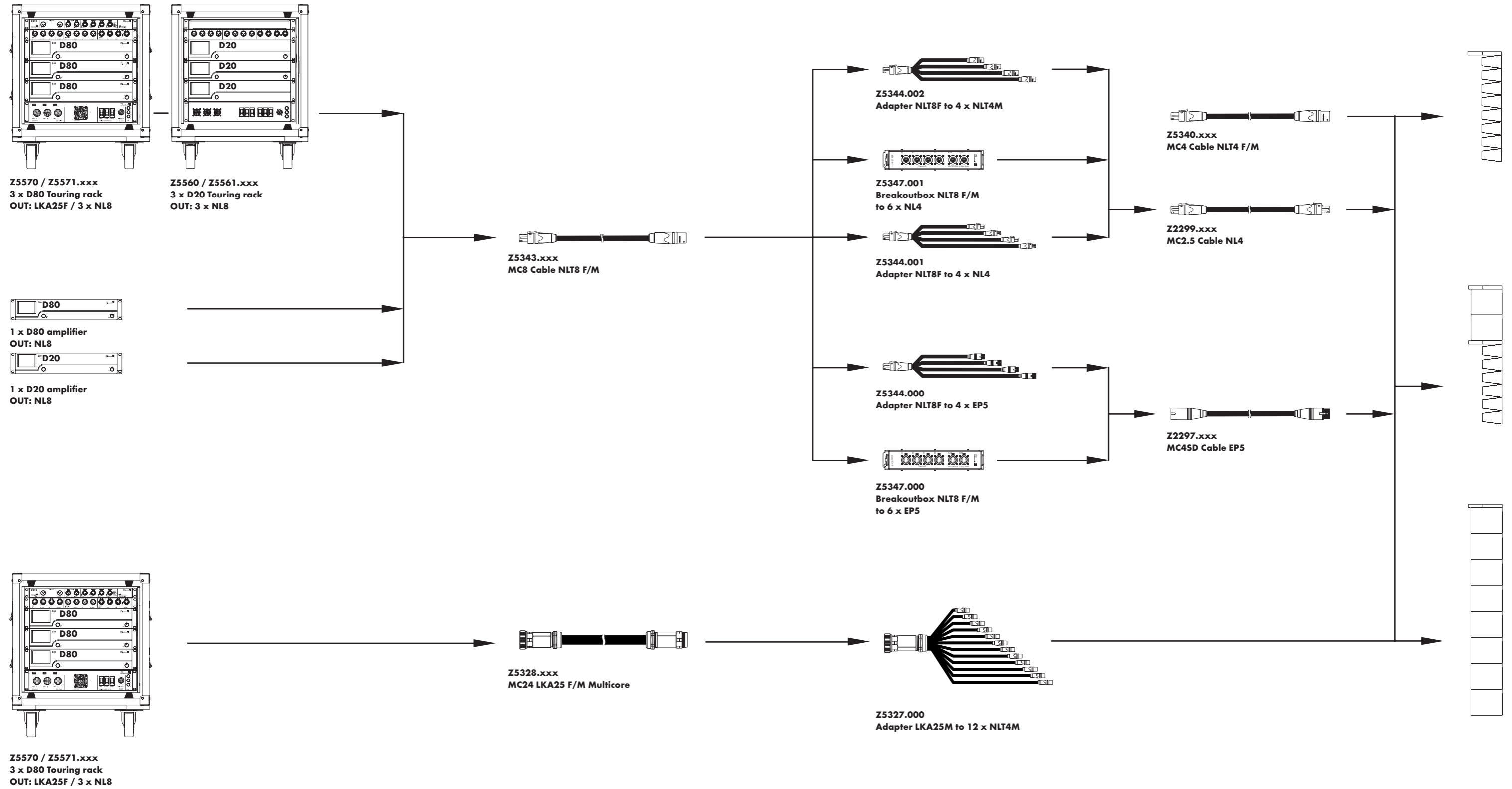


V-Series configuration comprising V8 mains and V12 outfill arrays driven with ArrayProcessing along with ground stacked V-SUBs and V12 as nearfills with D80 Touring racks¹

¹ These configurations are also valid for Vi loudspeakers

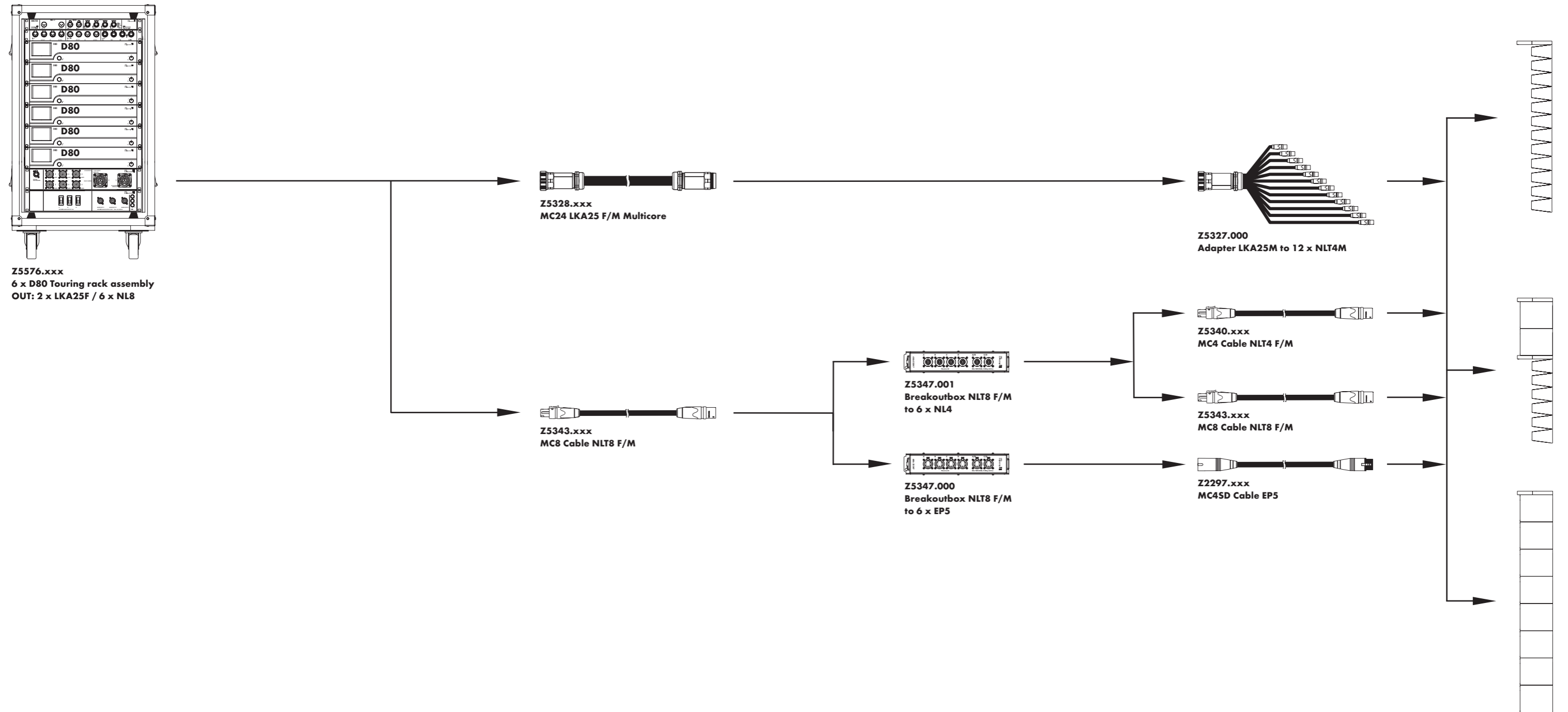
The V-Series cables and adapters MC8 / MC24

Amplifiers in Dual Channel mode



The V-Series cables and adapters MC8 / MC24

Amplifiers in Dual Channel mode



The V-Series product overview

| | | | | | |
|--------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V loudspeakers | Z0704.xxx Z0705.xxx Z0515.xxx Z0516.xxx Z0518.xxx Z0519.xxx | V7P loudspeaker V10P loudspeaker V8 loudspeaker V12 loudspeaker V subwoofer V-GSUB | VP accessories | Z5383.000 Z5384.000 Z5388.000 Z5551.000 Z5550.000 Z5010.000 Z5012.500 Z5049.000 Z5013.000 Z5009.000 Z5024.000 | VP Mounting bracket ³ VP Flying adapter ³ VP Horizontal bracket ³ VP Flying adapter link M20 Stand adapter TV Spigot with fixing plate Pipe clamp for TV Spigot Flying pin 8mm Loudspeaker stand winder M20 Loudspeaker stand with winder Loudspeaker stand adapter |
| Loudspeaker connector options | Zxxxx.000 Zxxxx.001 Zxxxx.002 | EP5 connector NL4 connector NLT4 F/M connector | Remote network | Z6118.000 Z6124.000 | R60 USB to CAN interface R70 Ethernet to CAN interface |
| Vi loudspeakers | Z0724.001 Z0725.001 Z0535.001 Z0536.001 Z0538.001 Z0520.001 | Vi7P loudspeaker NL4 connector Vi10P loudspeaker NL4 connector Vi8 loudspeaker NL4 connector Vi12 loudspeaker NL4 connector Vi subwoofer NL4 connector Vi-GSUB NL4 connector | Amplifiers | Z2710.xxx Z2770.xxx Z2750.xxx | D80 amplifier ⁴ 30D amplifier ⁵ D20 amplifier ⁴ |
| | | WR Weather Resistant option ¹ SC Special Colour option ² | Processing and distribution | Z4010.000 Z4100.000 | DS10 Audio network bridge DS100 Signal Engine |
| Loudspeaker cases | E7462.000 E7465.000 E7466.000 | Touring case 2 x V8/V12 Touring case 2 x V Flying frame Touring case 2 x V7P/V10P | Amplifier rack assemblies | Z5560.xxx Z5561.xxx Z5330.xxx Z5562.xxx Z5570.xxx Z5571.xxx Z5576.xxx | 3 x D20 Touring rack ⁶ 3 x D20 Touring rack (includes DS10) ⁶ D80 Touring rack ⁶ D80 Touring rack (includes DS10) ⁶ 3 x D80 Touring rack ⁶ 3 x D80 Touring rack (includes DS10) ⁶ 6 x D80 Touring rack (includes DS10) ⁶ |
| Loudspeaker carts | E7463.000 E7464.000 | Touring cart 4 x V8/V12 Touring cart 8 x V8/V12 | Racks | E7480.000 E7468.000 E7483.000 | D20 Touring rack 2 RU, 19" SD , shock mounted, handles D80 Touring rack 2 RU, 19" SD , shock mounted, handles DS100 Touring rack 3 RU, 19" SD , shock mounted, handles |
| Lids | E7923.000 E7926.000 | V-SUB Wooden lid V-GSUB Wooden lid | Cables and adapters | Z5339.000 Z5343.xxx Z5345.001 Z5344.002 Z5344.001 Z5344.000 Z5347.001 Z5347.000 Z5340.xxx Z5328.xxx Z5327.000 | Multichannel extension cable MC8 Cable NLT8 F/M Adapter 4 x NL4 to NLT8M Adapter NLT8F to 4 x NLT4M Adapter NLT8F to 4 x NL4 Adapter NLT8F to 4 x EP5 Breakoutbox NLT8 F/M to 6 x NL4 Breakoutbox NLT8 F/M to 6 x EP5 MC4 Cable NLT4 F/M MC24 LKA 25 F/M Multicore Adapter LKA25M to 12 x NLT4M |
| V/Vi accessories | Z5380.000 Z5381.000 Z5382.000 | V Flying frame ³ (supplied with Z5382 V Safety chainset) V Hoist connector chain V Safety chainset | | | |
| V accessories | Z5385.000 Z5386.000 Z5147.000 | V Flying adapter V Stack adapter Rota clamp | | | |
| Vi accessories | Z5387.000 Z5387.001 E6507.000 | Vi Mounting frame top ³ Vi Mounting frame bottom ³ 1t Shackle | | | |

¹ WR only for Vi loudspeakers, on request

² SC only for Vi loudspeakers, on request

³ SC on request

⁴ The complete list of mobile amplifier versions is available in the d&b D Amplifier and Software brochure

⁵ The complete list of installation amplifier versions is available in the d&b xD Installation Amplifier and Software brochure

⁶ Further information is available in the d&b D Amplifier and Software brochure

