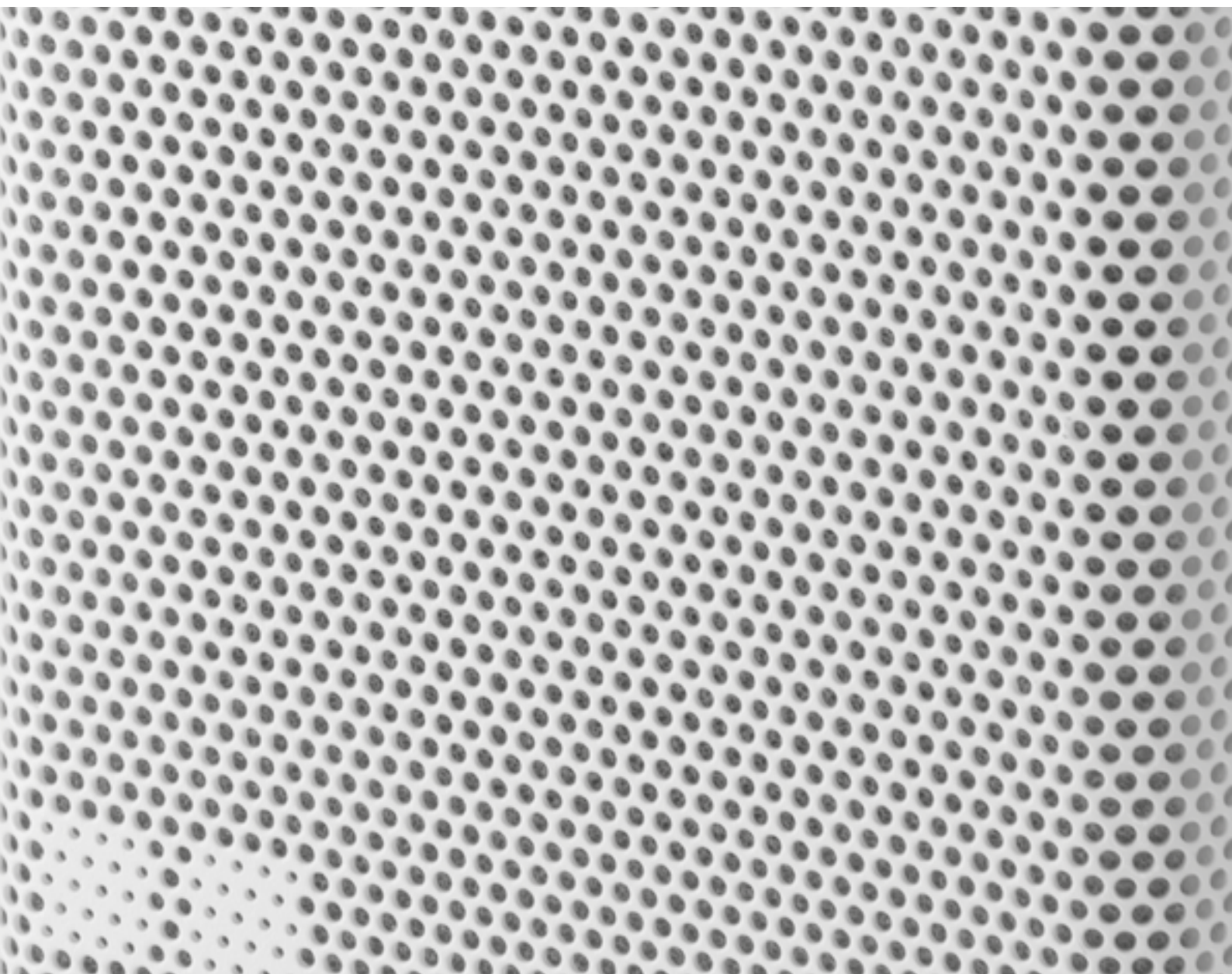


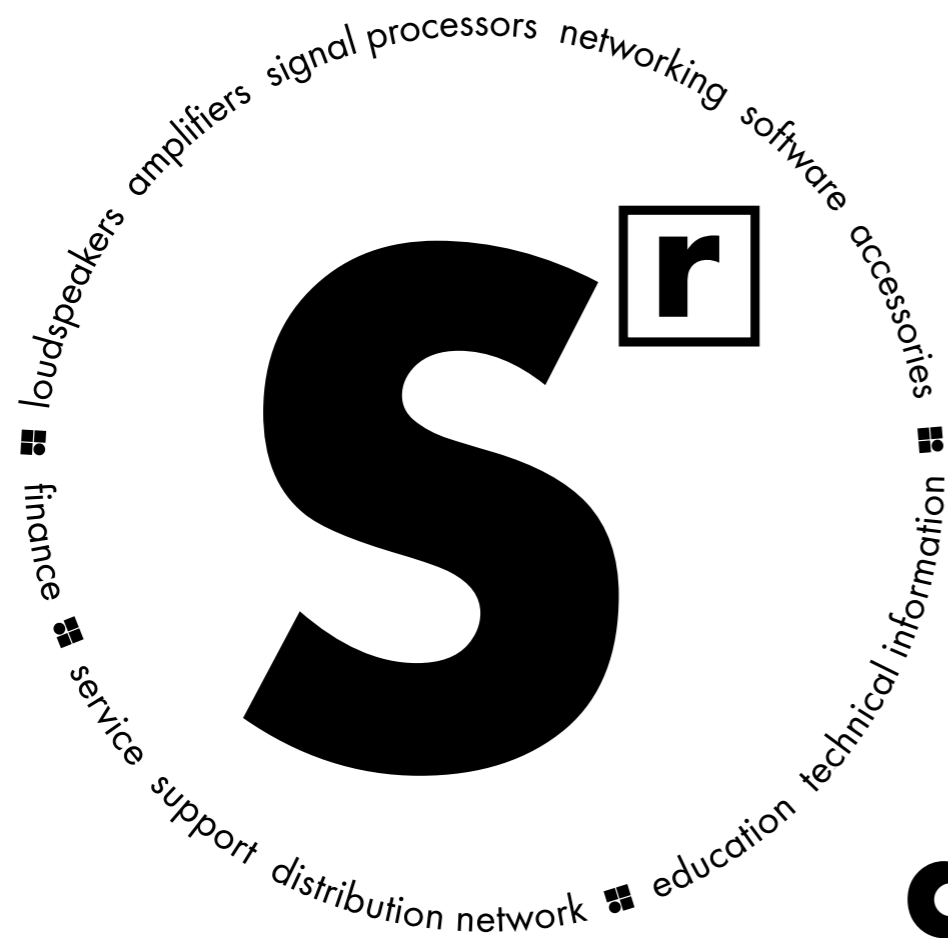
# xS

xS-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 **xS-Series** point source loudspeakers are designed for visual, physical, acoustical and electrical integration into permanently installed applications and are intended for environments that go beyond rider specified performance spaces.

The loudspeakers encompass a broad range of sizes and output powers and share the same clean and unobtrusive industrial design for use in stand-alone applications. Each has specialized fittings with capped recessed threads to which discreet mounting

hardware is attached. Rotatable horns deliver additional flexibility in terms of mounting options. Both the cabinets and available accessories can be properly colour matched to interior designs. Intended applications include town halls, conference

and meeting facilities, theatres and opera houses, ball rooms, houses of worship, restaurants, bars, lounges and night clubs, lecture theatres and assembly halls.

# The xS-Series

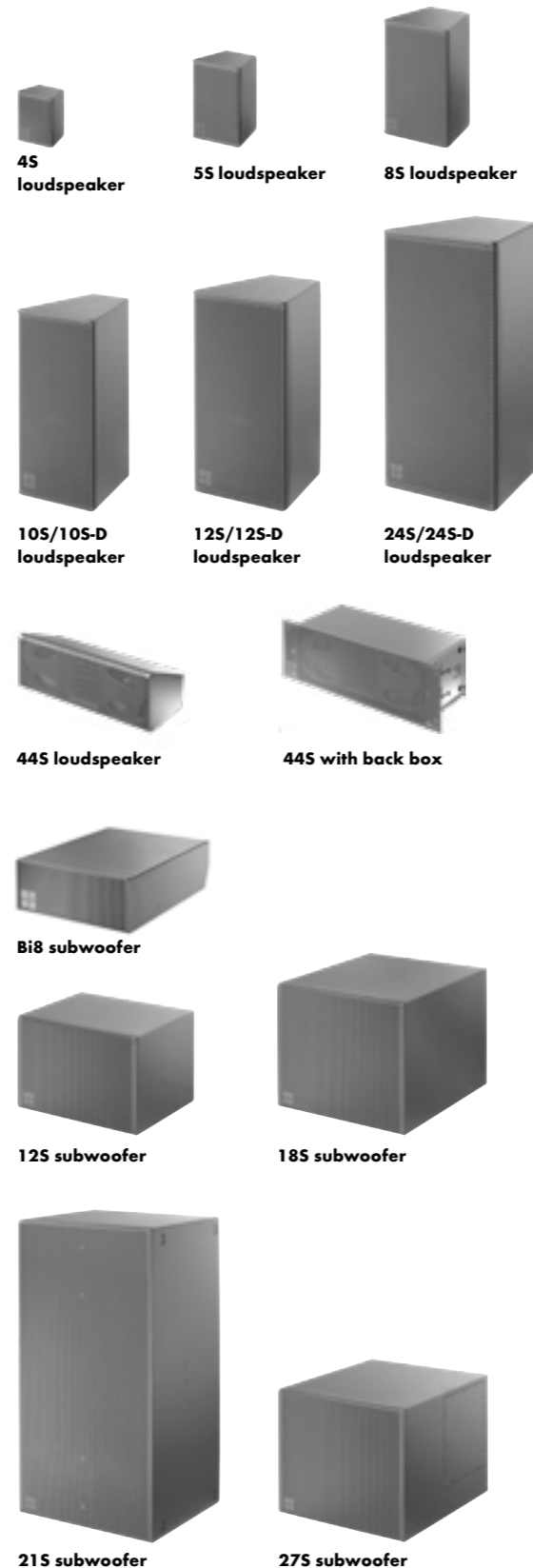
The ultra compact **4S** and compact **5S** loudspeakers are designed for installed sound applications where the sonic performance to size ratio is most critical. Both offer a constant and wide coverage even at close listening positions. The compact **8S** houses a 8"/1" coaxial driver combination in a bass-reflex enclosure.

The 2-way passive **10S/10S-D** and **12S/12S-D** loudspeakers house a single 10" and 12" driver respectively, and are designed with a complete set of acoustical and mechanical options to realize any challenge. The 10S-D and 12S-D are the wide dispersion options of the 10S and 12S. The point source biaxial designs of 10S/10S-D and 12S/12S-D have physically symmetrical horn flanges enabling rotation of the entire horn assembly by 90°.

The 2-way passive high performance **24S** and **24S-D** are true full range, stand-alone loudspeakers. They employ two 12" drivers in a dipolar driver arrangement in a larger cabinet volume for increased LF reproduction.

The **44S** loudspeaker offers a higher level of directivity with a 90° x 30° dispersion. It's ultra compact form factor and optional back box allow for flush mounted installation. The passive 2-way design houses two 4.5" neodymium LF drivers and two 1.25" HF dome tweeters mounted on a rotatable CD horn for rotatable dispersion.

The xS-Series loudspeakers are supported by a range of subwoofers. The compact **B8-SUB** is an ideal low end extension in small and medium sized venues or where space is very limited. Measuring just 170mm tall, the B8 readily fits under stages and stairs, yet is powerful enough to reproduce low frequencies down to 43 Hz using two 6.5" drivers. When more space is available, the 12S-SUB compact subwoofer with a single 12" driver is also ideal. The **18S-SUB** and **21S-SUB** house a single 18" driver and a single 21" driver respectively to produce program material with that deep, musical low end of today's performance expectations. The 21S-SUB can also be used in INFRA mode to supplement other d&b subwoofers. The **27S-SUB**'s patented cardioid dispersion avoids unwanted energy behind the system and greatly reduce the excitation of the reverberant field at low frequencies providing highest accuracy in low frequency reproduction. The special passive cardioid design of the 27S-SUB allows the system to be powered by a single amplifier channel.



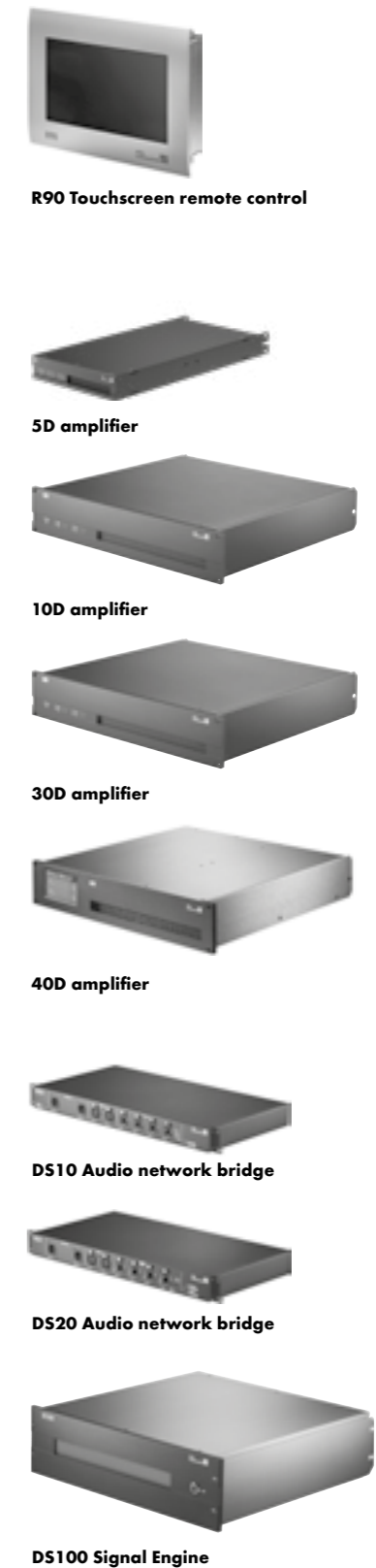
The d&b software offering aides the entire system setup process. The d&b **ArrayCalc** simulation software allows the virtual optimization of loudspeaker line arrays, point source and column loudspeakers as well as subwoofers and their adjustment to venue conditions. The configuration simulated in ArrayCalc is assimilated by the d&b **R1** Remote control software into an intuitive graphical user interface to manage the whole system 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.

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 containing 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 **5D**, **10D**, **30D** and **40D** amplifiers provide four channels and are intended for integration within permanent installations. The 5D and 10D amplifiers are designed to drive smaller d&b loudspeakers and applications requiring lower Sound Pressure Levels whereas the high powered 30D and 40D are designed to drive d&b loudspeakers at medium to high SPLs. These amplifiers all provide extensive user-definable equalization and delay capabilities to fine tune the system for artistic taste.

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 **DS10** supports Dante networks, while the **DS20** is used for the open standards-based Milan protocol.

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.



# The 4S and 5S loudspeakers

## 4S and 5S loudspeakers

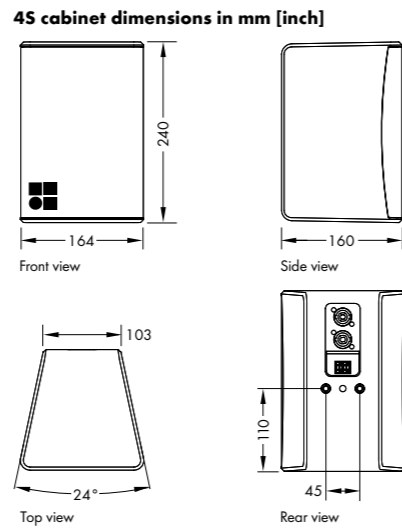
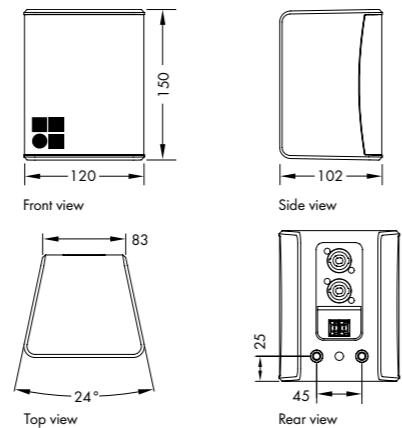
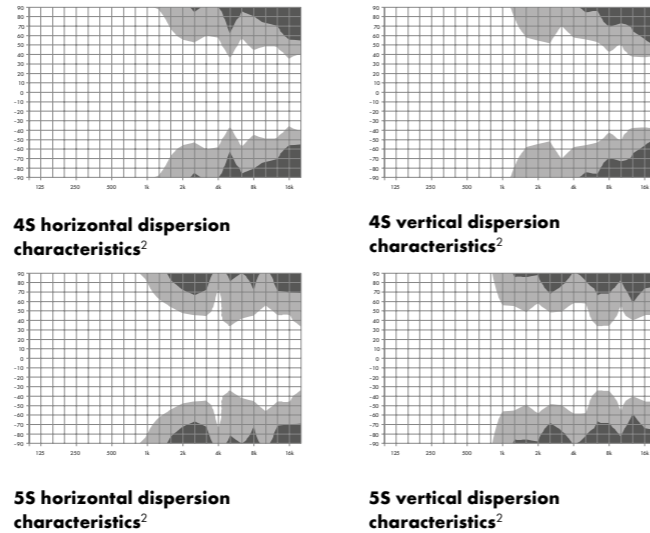
The 4S and 5S are lightweight 2-way passive loudspeakers using a neodymium LF driver and a coaxially mounted wide dispersion dome tweeter. The coaxial design of the 4S and 5S employs a 4" and 5" driver respectively in a highly compact sealed enclosure. Both loudspeakers offer a symmetrical dispersion pattern in the horizontal and vertical plane while the cabinet may be mounted in either orientation. The 4S and 5S can be used stand-alone or supplemented by different subwoofers from the xS-Series. Each enclosure is injection moulded with an impact resistant black or white paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grille backed by an acoustically transparent foam and incorporated into the rear panel are two M8 threaded inserts, two NL4 connectors and a two pole screw terminal block.

### System data 4S • 5S

Frequency response (-5 dB standard) ..... 130 Hz • 80 Hz - 20 kHz  
 Frequency response (-5 dB CUT mode) ..... 180 • 130 Hz - 20 kHz  
 Max. sound pressure (1 m, free field)<sup>1</sup> .....  
 with 10D ..... 114 • 117 dB  
 with D20/D80 ..... 115 • 118 dB  
 with 5D/30D/40D ..... 115 • 118 dB

### Loudspeaker data 4S • 5S

Nominal impedance ..... 16 ohms  
 Power handling capacity (RMS/peak 10 msec) ..... 60/400 W  
 Nominal dispersion angle ..... 100° conical  
 Components ..... 4" • 5" driver  
 ..... 0.75" • 1" dome tweeter coaxially mounted  
 ..... passive crossover network  
 Connections ..... 2 x NL4  
 ..... screw terminal block  
 Weight ..... 1 • 2.5 kg (5.5 lb)



5S cabinet dimensions in mm [inch]

# The 8S loudspeaker

## 8S loudspeaker

The 8S is a full range, 2-way loudspeaker in a bass-reflex enclosure, utilizing an 8"/1" coaxial driver combination with a passive crossover. The coaxial design offers a symmetrical dispersion pattern in the horizontal and vertical plane while the cabinet may be mounted in either orientation.

With its frequency response from 70 Hz to 20 kHz the 8S can be used as a full range system or can be supplemented by different subwoofers from the xS-Series.

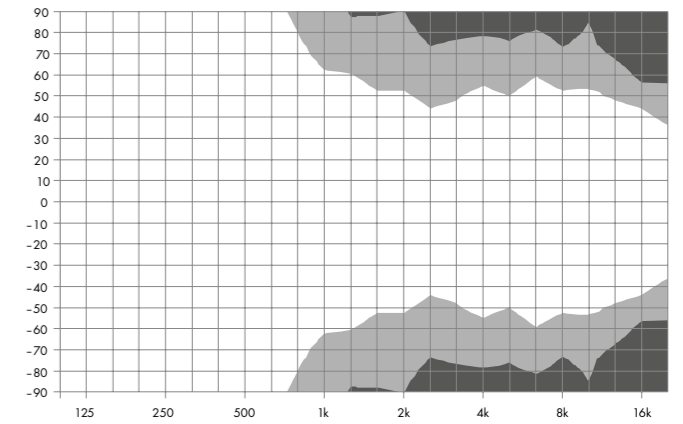
The loudspeaker cabinet is constructed from marine plywood with an impact resistant black or white paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The top and bottom panels incorporate an M8 threaded insert, whilst the rear panel incorporates two.

### System data

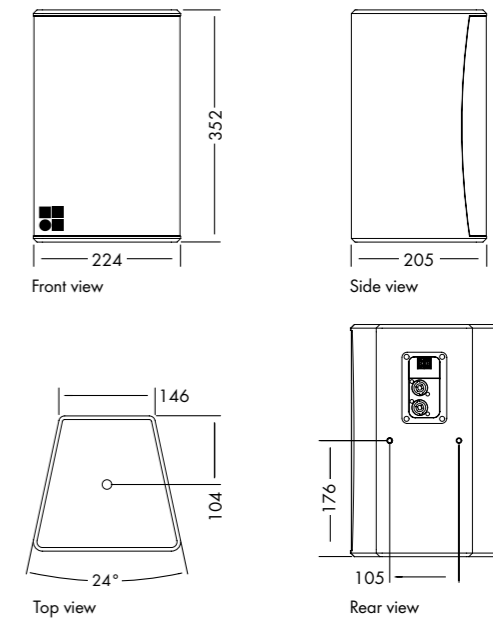
Frequency response (-5 dB standard) ..... 70 Hz - 20 kHz  
 Frequency response (-5 dB CUT mode) ..... 110 Hz - 20 kHz  
 Max. sound pressure (1 m, free field)<sup>1</sup> .....  
 with 10D ..... 124 dB  
 with D20/D80 ..... 127 dB  
 with 5D/30D/40D ..... 127 dB

### Loudspeaker data

Nominal impedance ..... 16 ohms  
 Power handling capacity (RMS/peak 10 msec) ..... 150/800 W  
 Nominal dispersion angle ..... 100° conical  
 Components ..... 8" driver with neodymium magnet  
 ..... 1" compression driver coaxially mounted  
 ..... passive crossover network  
 Connections ..... 2 x NL4  
 ..... screw terminal block  
 Weight ..... 7.4 kg (16 lb)



8S horizontal and vertical dispersion characteristics<sup>2</sup>



8S cabinet dimensions in mm [inch]

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

# The 10S and 10S-D loudspeakers

## 10S/10S-D loudspeaker

The biaxial 10S/10S-D are high performance 2-way loudspeakers employing a single 10" driver in a bass-reflex enclosure and different HF sections for a wide range of installed sound applications. All models are lightweight passive designs using neodymium drivers and large constant directivity horns for accurate pattern control. The 10S/10S-D are single box solutions providing rotatable dispersion characteristics of 75° x 50° and 110° x 55° respectively.

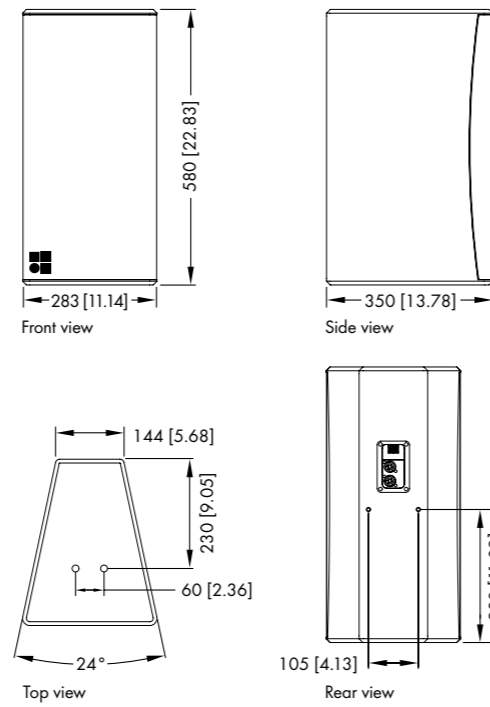
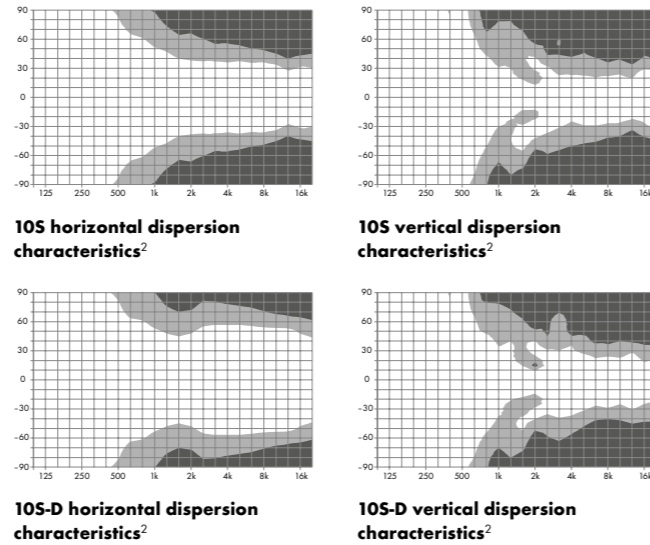
With their frequency response from 60 Hz to 18 kHz both versions can be used as full range systems and can also be supplemented by different subwoofers from the xS-Series. The loudspeaker cabinets are constructed from marine plywood with an impact resistant black paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill backed by an acoustically transparent foam. The top and bottom panels incorporate a pair of M10 threaded inserts, whilst the rear panel incorporates two M8 threaded inserts. The loudspeakers are Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

### System data 10S • 10S-D

Frequency response (-5 dB standard)	60 Hz - 18 kHz
Frequency response (-5 dB CUT mode)	100 Hz - 18 kHz
Max. sound pressure (1 m, free field) <sup>1</sup>	
with 10D	127 dB
with D20/D80	130 dB
with 5D/30D/40D	130 dB

### Loudspeaker data 10S • 10S-D

Nominal impedance	12 ohms
Power handling capacity (RMS/peak 10 msec)	200/1200 W
Nominal dispersion angle (h x v)	75° x 50° • 110° x 55° rotatable
Components	10" driver with neodymium magnet
	1.4" compression driver with CD horn
	Passive crossover network
Connections	2 x NL4
	screw terminal block
Weight	13 kg (29 lb)



10S/10S-D cabinet dimensions in mm [inch]

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

# The 12S and 12S-D loudspeakers

## 12S/12S-D loudspeaker

The biaxial 12S/12S-D are high performance 2-way loudspeakers employing a single 12" driver in a bass-reflex enclosure and different HF sections for a wide range of installed sound applications. Both versions are lightweight passive designs using neodymium drivers and large constant directivity horns for accurate pattern control. The 12S/12S-D are single box solutions providing rotatable dispersion characteristics of 75° x 50° and 110° x 55° respectively.

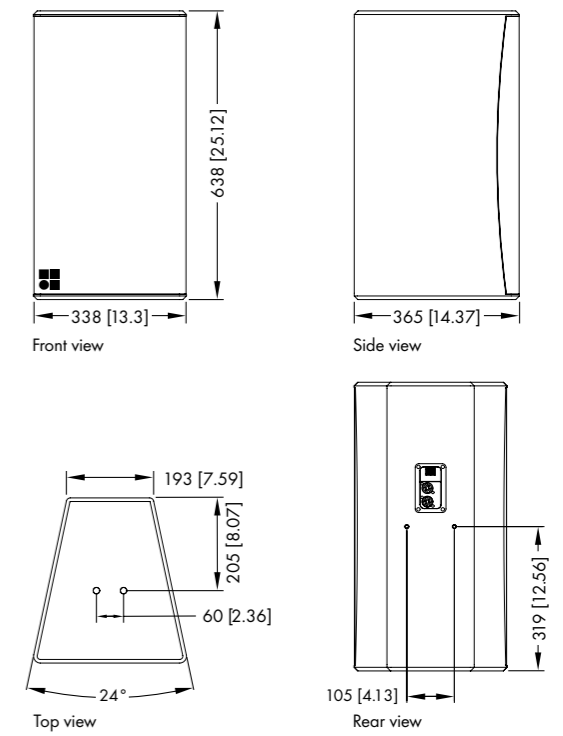
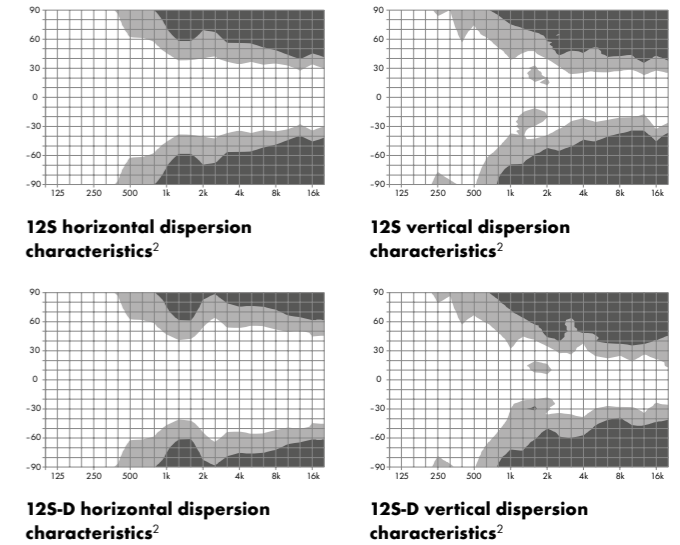
With their extended frequency response from 48 Hz to 18 kHz both versions can be used as full range systems and can also be supplemented by different subwoofers of the xS-Series. The loudspeaker cabinets are constructed from marine plywood with an impact resistant black paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill backed by an acoustically transparent foam. The top and bottom panels incorporate a pair of M10 threaded inserts, whilst the rear panel incorporates two M8 threaded inserts. The loudspeakers are Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

### System data 12S • 12S-D

Frequency response (-5 dB standard)	48 Hz - 18 kHz
Frequency response (-5 dB CUT mode)	100 Hz - 18 kHz
Max. sound pressure (1 m, free field) <sup>1</sup>	
with 10D	130 dB
with 30D/D20	133 dB
with 40D/D80	133 dB

### Loudspeaker data 12S • 12S-D

Nominal impedance	8 ohms
Power handling capacity (RMS/peak 10 msec)	300/1600 W
Nominal dispersion angle (h x v)	75° x 50° • 110° x 55° rotatable
Components	12" driver with neodymium magnet
	1.4" compression driver with CD horn
	passive crossover network
Connections	2 x NL4
	screw terminal block
Weight	17 kg (37 lb)



12S/12S-D cabinet dimensions in mm [inch]

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

# The 24S and 24S-D loudspeakers

## 24S/24S-D loudspeaker

The 24S/24S-D are high performance full range 2-way passive loudspeakers housing two 12" drivers in a bass-reflex enclosure with a 1.4" exit compression driver mounted onto a large rotatable CD horn. The 24S and 24S-D differ in dispersion characteristics due to different HF sections, providing 75° x 45° and 110° x 45° (h x v) respectively, and are suitable for a wide range of permanently installed applications. The dipolar arrangement of the 12" drivers results in directivity control down to approximately 500 Hz in the same plane as the dipole. The specially designed ports with optimized flow characteristics and a large cabinet volume provide a significant low frequency reproduction.

With a frequency response extending from 55 Hz to 18 kHz, the 24S and 24S-D can be used as a stand-alone, full range system, or supplemented with d&b subwoofers. They can be ground stacked, flown individually, or flown in a cluster. The HF horn can be rotated by 90° to enable horizontal orientation.

The loudspeaker cabinets are constructed from marine plywood, and have an impact resistant paint finish. The front of the loudspeaker cabinets are protected by a rigid metal grill. The top, bottom and both side panels each incorporate a pair of M10 threaded inserts for attaching d&b rigging hardware.

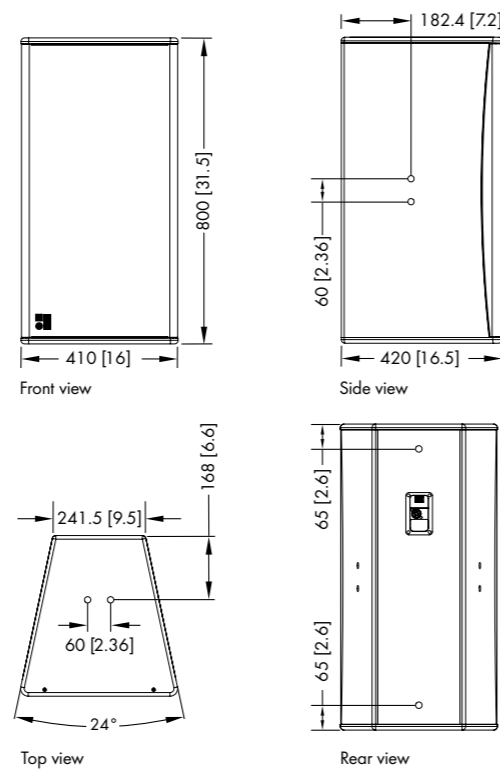
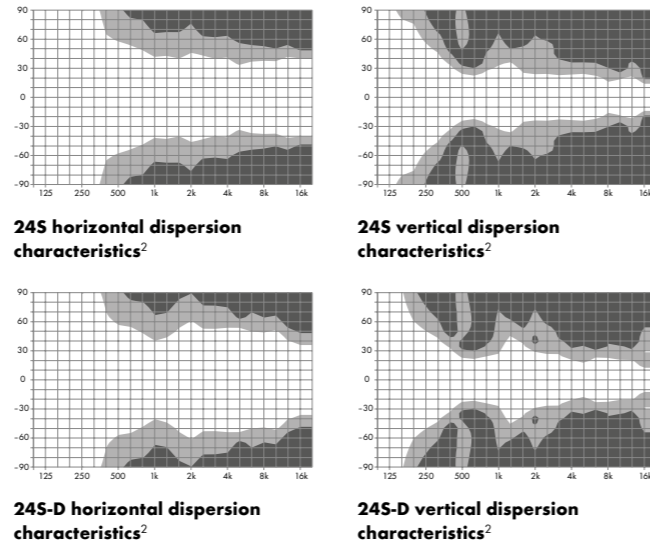
The loudspeakers are Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

## System data 24S • 24S-D

Frequency response (-5 dB standard) ..... 55 Hz - 18 kHz  
 Frequency response (-5 dB CUT mode) ..... 90 Hz - 18 kHz  
 Max. sound pressure (1 m, free field)<sup>1</sup> .....  
 with D20/30D ..... 138 • 137 dB  
 with 40D/D80 ..... 138 • 137 dB

## Loudspeaker data 24S • 24S-D

Nominal impedance ..... 4 ohms  
 Power handling capacity (RMS/peak 10 msec) ..... 500/2000 W  
 Nominal dispersion angle (h x v) .....  
 ..... 75° x 45° • 110° x 45° rotatable  
 Components ..... 2 x 12" driver with neodymium magnet  
 ..... 1.4" exit compression driver  
 ..... passive crossover network  
 Connections ..... 1 x NL4  
 ..... screw terminal block  
 Weight ..... 33 kg (73 lb)



24S/24S-D cabinet dimensions in mm [inch]

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB

# The 44S loudspeaker

## 44S loudspeaker

The 44S is a passive 2-way design housing two 4.5" neodymium LF drivers and two 1.25" HF dome tweeters mounted on a rotatable CD horn thus providing a rotatable dispersion characteristic of 90° x 30°.

The optional d&b Z5427 44S back box can be used for flush mounting the loudspeaker into ceilings or walls, either in horizontal or vertical position. The asymmetric cabinet shape of the 44S allows the dispersion to be adjusted +/- 20° in five-degree increments within the back box.

The loudspeaker can be used as a stand-alone system or supplemented by actively driven d&b subwoofers.

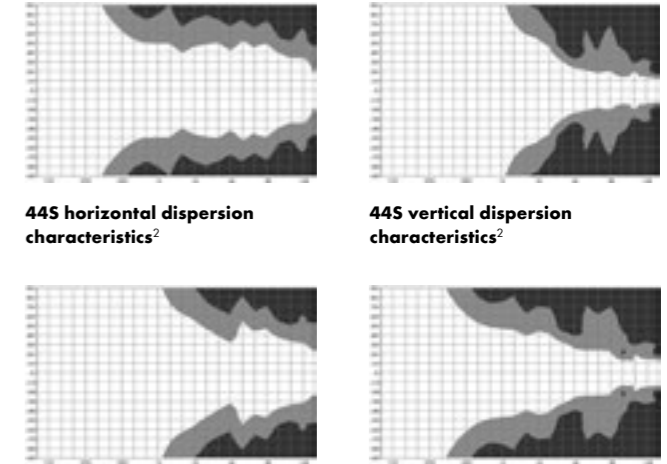
The enclosure is injection moulded with an impact resistant paint finish. The front of the cabinet is protected by a rigid metal grill. Two M8 threaded inserts are incorporated in the back panel to connect to different rigging accessories.

## System data

Frequency response (-5 dB standard) ..... 90 Hz - 17 kHz  
 Frequency response (-5 dB CUT mode) ..... 150 Hz - 17 kHz  
 Max. sound pressure (1 m, free field)<sup>1</sup> .....  
 with 10D ..... 121 dB  
 with 5D ..... 122 dB  
 with D20/D80 ..... 123 dB  
 with 30D/40D ..... 123 dB

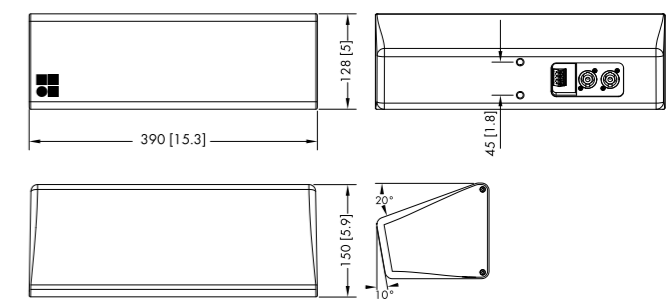
## Loudspeaker data

Nominal impedance ..... 16 ohms  
 Power handling capacity (RMS/peak 10 msec) ..... 150/500 W  
 Nominal dispersion angle ..... 90° x 30°  
 Components ..... 2x 4.5" driver with neodymium magnet  
 ..... 2x 1.25" dome tweeter mounted on CD horn  
 ..... passive crossover network  
 Connections ..... 4-pin Phoenix Euroblock and 2x NL4 M  
 Pin assignment ..... Phoenix: 1: +/ 2: -/ 3: +/ 4: -  
 ..... NL4 M: 1+/ 1-  
 Weight loudspeaker ..... 3.6 kg (8 lb)  
 Dead weight Backbox ..... 2.6 kg (5.7 lb)  
 Weight loudspeaker with Backbox ..... 6.2 kg (13.7 lb)



44S horizontal dispersion characteristics/  
 characteristics/  
 horizontal setup, horn rotated<sup>2</sup>

44S vertical dispersion characteristics/  
 characteristics/  
 horizontal setup, horn rotated<sup>2</sup>



44S cabinet dimensions in mm [inch]

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> Dispersion angle vs frequency plotted using lines of equal sound pressure (isobars) at -6 dB and -12 dB



# The Bi8 subwoofer

## Bi8 subwoofer

The Bi8 is an ultra-low profile compact subwoofer. At 170mm in height, the Bi8 readily fits under stages and stairs. An actively driven omnidirectional subwoofer, the cabinet houses two 6.5" LF drivers with ferrite magnets in a bass-reflex design, capable of reproducing frequencies from 43 Hz to 170 Hz. The Bi8-SUB can be paired with all current d&b amplifiers, achieving a max SPL of 122 dB<sup>2</sup>. For setup purposes, the Bi8 can be used in landscape or portrait mode, installed under stages, stairs or in ceilings, or flown with small mid-high d&b loudspeakers.

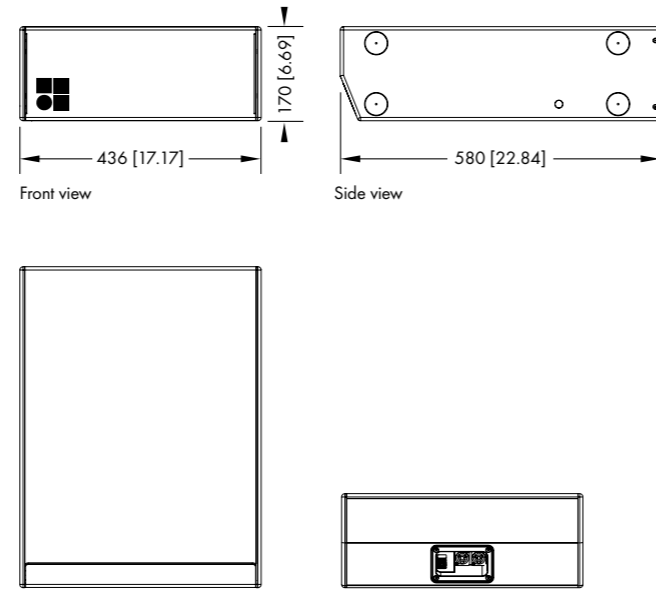
The enclosure is constructed from marine plywood with an impact resistant black paint finish. The front of the cabinet is protected by a rigid metal grill backed by an acoustically transparent foam.

## System data

Frequency response (-5 dB, standard) ..... 43 - 170 Hz  
 Frequency response (-5 dB, 100 Hz mode) ..... 43 - 125 Hz  
 Max. sound pressure (1 m, free field)<sup>1</sup> .....  
 with 10D ..... 120 dB  
 with D20/D80 ..... 122 dB  
 with 5D/30D/40D ..... 122 dB

## Loudspeaker data

Nominal impedance ..... 8 ohms  
 Power handling capacity (RMS/peak 10 msec) ..... 200/1000 W  
 Components ..... 2 x 6,5" driver with ferrite magnet  
 Connections ..... 2x NL4 M  
 ..... 1 x screw terminal (ST - up to 4 mm<sup>2</sup>/AWG 11)  
 Pin assignment ..... 2+ / 2-  
 Weight ..... 17 kg (37.5 lb)



Bi8-SUB cabinet dimensions in mm [inch]

# The 12S subwoofer

## 12S subwoofer

The 12S-SUB is a compact subwoofer for use with the xS-Series loudspeakers. The cabinet houses a long excursion 12" neodymium driver in a bass-reflex design and it can be used stand-alone, ground stacked or individually flown.

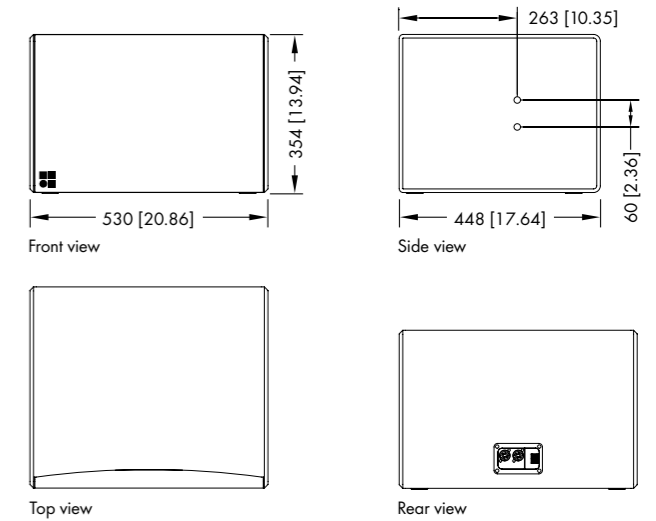
The cabinet is constructed from marine plywood with an impact resistant black or white paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The side panels incorporate a pair of M10 threaded inserts. The loudspeaker is Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

## System data

Frequency response (-5 dB standard) ..... 45 - 130 Hz  
 Frequency response (-5 dB 100 Hz mode) ..... 45 - 100 Hz  
 Max. sound pressure (single cabinet, 1 m, free field)<sup>1</sup> .....  
 with 10D ..... 124 dB  
 with D20/D80 ..... 127 dB  
 with 5D/30D/40D ..... 127 dB

## Loudspeaker data

Nominal impedance ..... 8 ohms  
 Power handling capacity (RMS/peak 10 msec) ..... 300/1600 W  
 Components ..... 12" driver with neodymium magnet  
 Connections ..... 2 x NL4  
 ..... screw terminal block  
 Weight ..... 16 kg (35 lb)



12S-SUB cabinet dimensions in mm [inch]

<sup>1</sup> Broadband measurement, pink noise, crest factor 4, peak measurement, linear weighting  
<sup>2</sup> with 30D/40D/D20/D40/D80

# The 18S subwoofer

## 18S subwoofer

The 18S-SUB is a compact high performance subwoofer for use with the xS-Series and xA-Series loudspeakers. The cabinet houses a long excursion 18" neodymium driver in a bass-reflex design and it can be used stand-alone, stacked or individually flown.

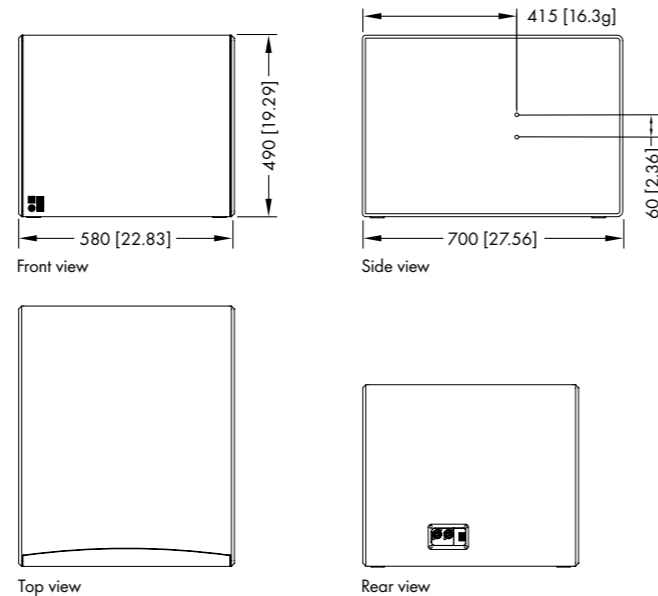
The cabinet is constructed from marine plywood with an impact resistant black paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The side panels incorporate a pair of M10 threaded inserts. The loudspeaker is Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

### System data

Frequency response (-5 dB standard)	37 - 140 Hz
Frequency response (-5 dB 100 Hz mode)	37 - 100 Hz
Max. sound pressure (single cabinet, 1 m, free field) <sup>1</sup>	
with 10D	129 dB
with 30D/D20	132 dB
with 40D/D80	132 dB

### Loudspeaker data

Nominal impedance	8 ohms
Power handling capacity (RMS/peak 10 msec)	400/1600 W
Components	18" driver with neodymium magnet
Connections	2 x NL4
	screw terminal block
Weight	32 kg (71 lb)



18S-SUB cabinet dimensions in mm [inch]

# The 21S subwoofer

## 21S subwoofer

The 21S-SUB is a high performance subwoofer for use with the xS-Series and xA-Series loudspeakers. The cabinet houses a single long excursion 21" driver in a bass-reflex design. The large, specially shaped reflex port enables the 21S-SUB to achieve high Sound Pressure Levels from a cabinet with a small footprint. When operated in INFRA mode, the 21S-SUB can be used to complement other d&b subwoofers by extending the frequency response of the system down to 33 Hz. The 21S-SUB can be ground stacked or flown in either orientation. It can be flown individually or in a cluster of two cabinets.

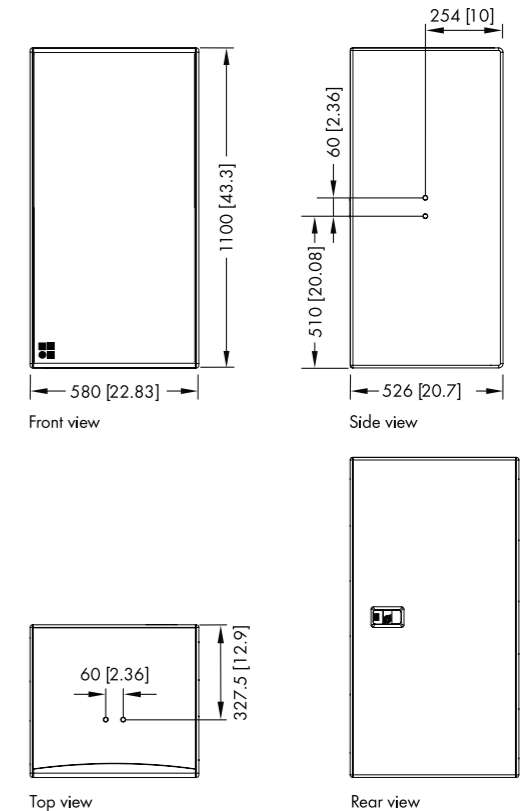
The enclosure is constructed from marine plywood with an impact resistant black paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The top, bottom and rear panels each incorporate a pair of M10 threaded inserts for attaching d&b rigging hardware.

### System data

Frequency response (-5 dB standard)	35 Hz - 105 Hz
Frequency response (-5 dB INFRA mode)	33 Hz - 85 Hz
Max. sound pressure (1 m, free field) <sup>1</sup>	
with D20/30D	134 dB
with 40D/D80	135 dB

### Loudspeaker data

Nominal impedance	4 ohms
Power handling capacity (RMS/peak 10 msec)	650/2600 W
Components	1 x 21" driver
Connections	1 x NL4
	screw terminal block
Weight	54 kg (119 lb)



21S-SUB cabinet dimensions in mm [inch]

# The 27S subwoofer

## 27S subwoofer

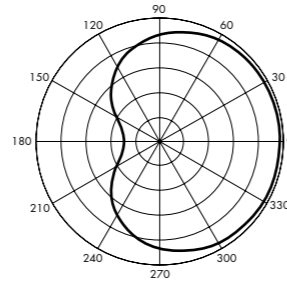
The 27S-SUB is a compact high performance cardioid subwoofer for use with the xS-Series and xA-Series loudspeakers. The cabinet houses two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design facing to the front and a 12" driver in a two chamber bandpass design radiating to the rear. The arrangement and tuning provide a cardioid dispersion pattern using a single amplifier channel. It can be used stand-alone, ground stacked or individually flown. The enclosure is constructed from marine plywood with an impact resistant black paint finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The side panels incorporate a pair of M10 threaded inserts. The loudspeaker is Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

## System data

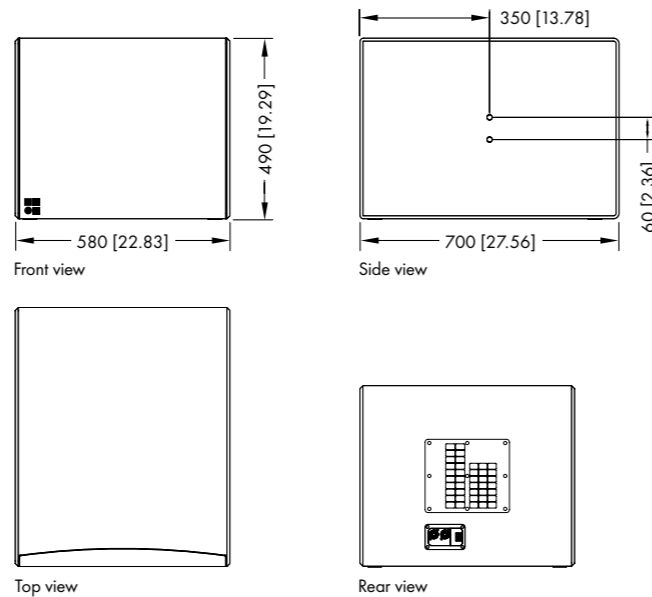
Frequency response (-5 dB standard) .....40 - 140 Hz  
 Frequency response (-5 dB 100 Hz mode).....40 - 100 Hz  
 Max. sound pressure (single cabinet, 1 m, free field)<sup>1</sup> .....  
 with 10D ..... 128 dB  
 with 30D/D20..... 131 dB  
 with 40D/D80..... 131 dB

## Loudspeaker data

Nominal impedance .....6 ohms  
 Power handling capacity (RMS/peak 10 msec) .....500/2000 W  
 Components.....  
 front/rear ..... 15"/12" driver with neodymium magnet  
 Connections ..... 2 x NL4  
 ..... screw terminal block  
 Weight..... 41 kg (90 lb)



Cardioid polar pattern



27S-SUB cabinet dimensions in mm [inch]

# The xS-Series Weather Resistant, Special Colour and Custom solutions options

## 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 mm<sup>2</sup> / 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 (SWR) option

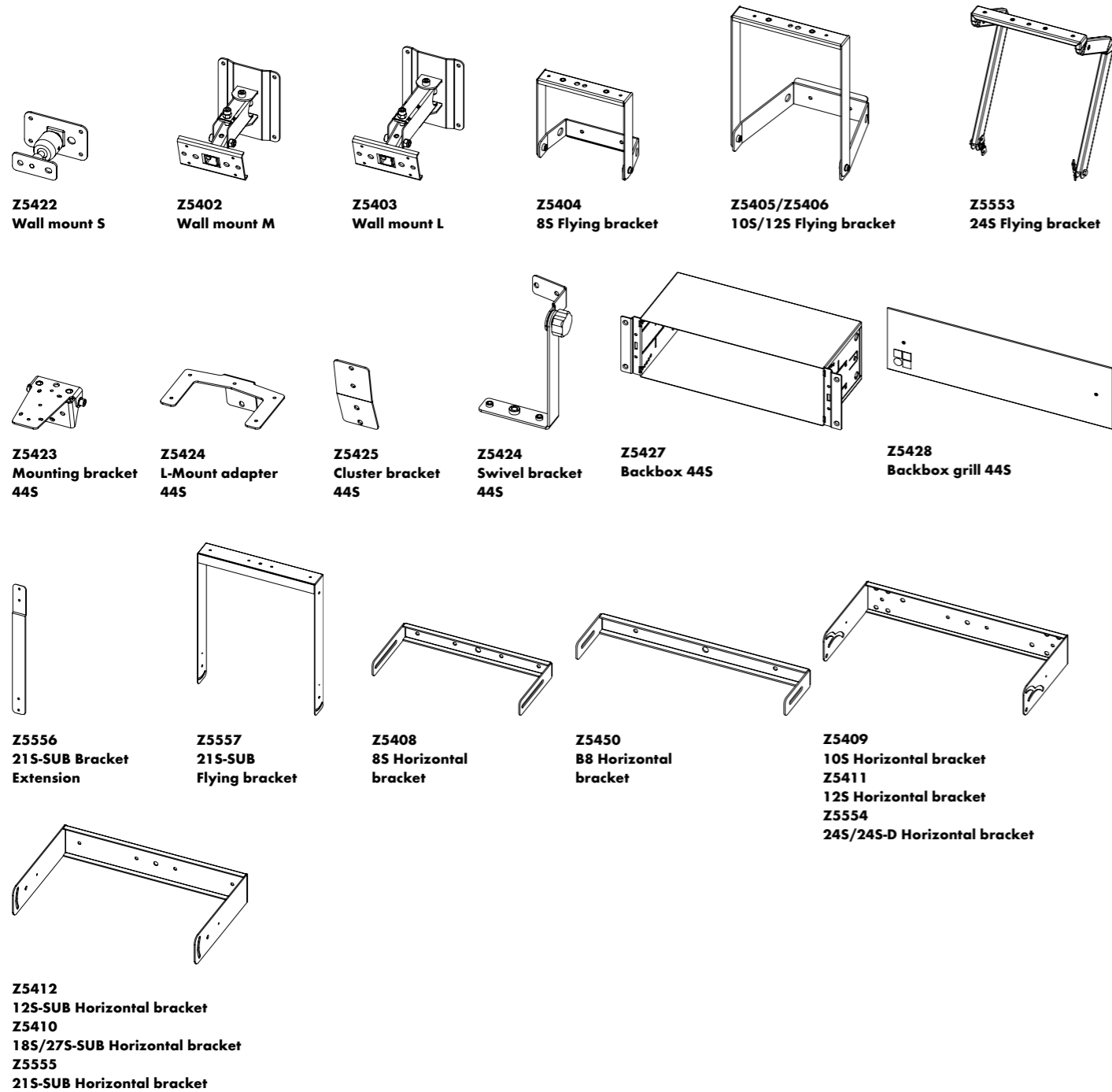
SWR (Sea Water Resistant) loudspeaker models are based on WR or SVS variants where available, and withstand outdoor operation in wet and acid or salty environments like on cruise ships or coastal locations. Other custom solutions are available upon request.

# The xS-Series mounting accessories

## The Bi8 mounting accessories

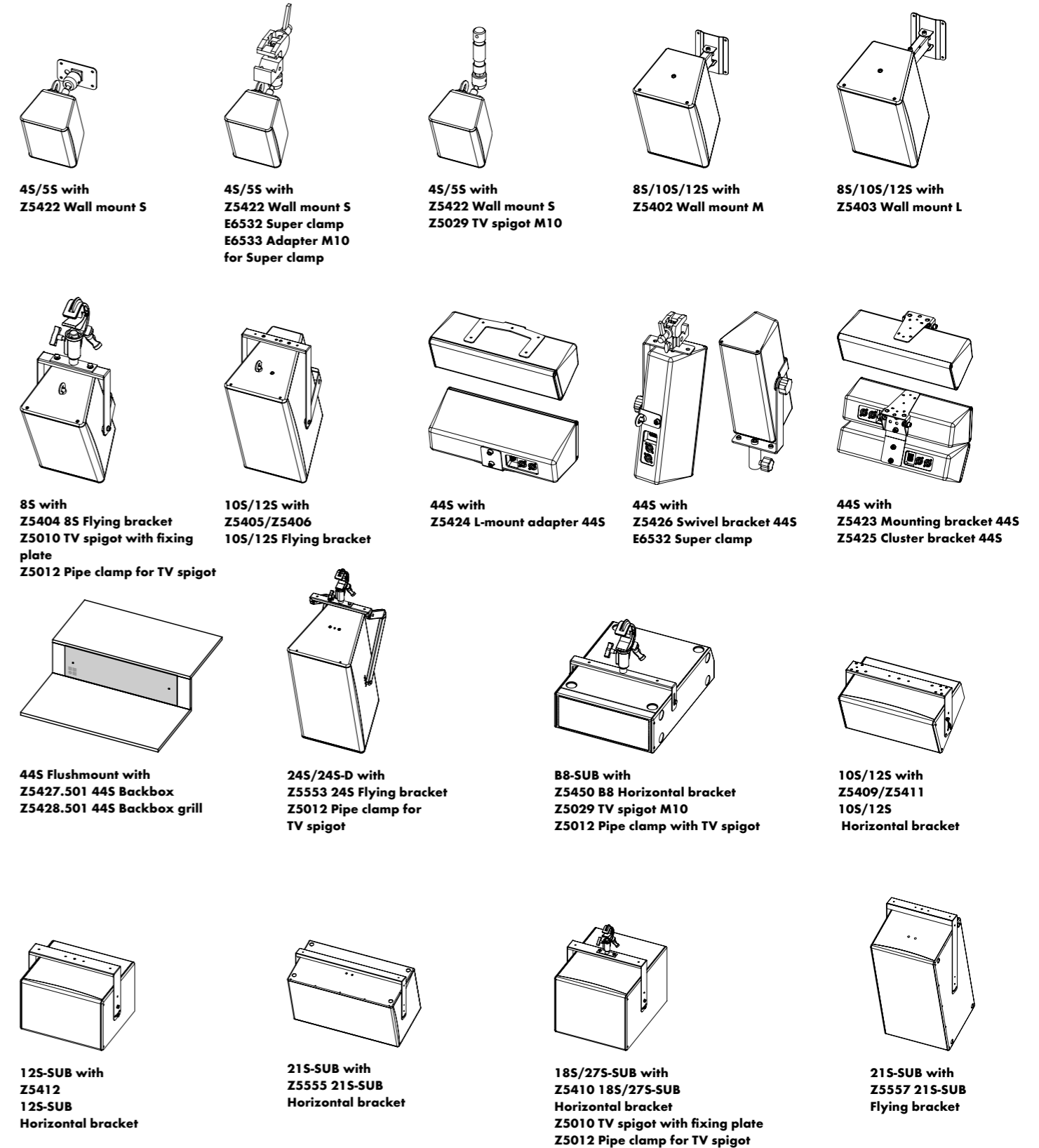
### Safety approval

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).



# The xS-Series mounting examples

## The Bi8 mounting examples

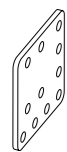


# The xS-Series mounting accessories

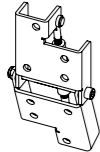
# The xS-Series mounting examples

## Safety approval

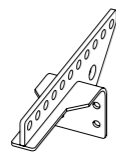
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



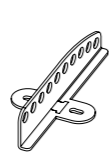
**Z5044  
MAX  
Bracket connector**



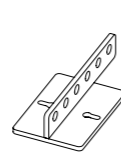
**Z5053  
Ci60/Ci90  
Bracket connector**



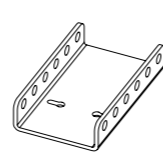
**Z5054  
Ci60/Ci90  
Flying adapter**



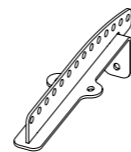
**Z5354  
E8/E12  
Flying adapter**



**Z5020  
Flying adapter 02**



**Z5025  
Flying adapter 03**



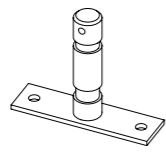
**Z5384  
VP Flying adapter**



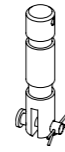
**Z5551  
VP Flying  
adapter link**



**Z5355  
E8/E12 Flying  
adapter link**



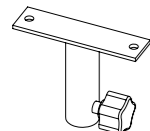
**Z5010  
TV spigot with  
fixing plate**



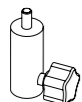
**Z5015  
TV spigot for  
Flying adapter 02**



**Z5029  
TV spigot M10**



**Z5024  
Loudspeaker  
stand adapter  
with fixing plate**



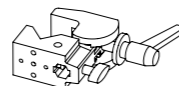
**Z5034  
Stand adapter  
M10**



**Z5035  
Adapter M10  
to 3/8"**



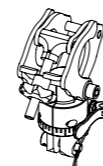
**E6533  
Adapter M10  
for Super  
clamp**



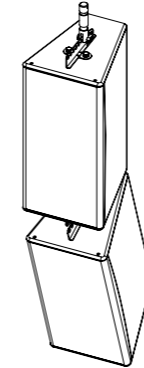
**E6532  
Super clamp**



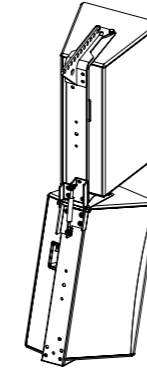
**Z5012  
Pipe clamp for TV spigot  
WLL: 100 kg (220 lb)  
for a tube diameter up to  
70 mm/2.75"**



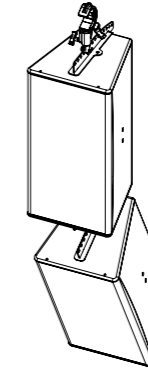
**Z5147  
Rota clamp  
WLL: 500 kg (1100 lb)  
for a tube diameter up to  
51 mm/2"**



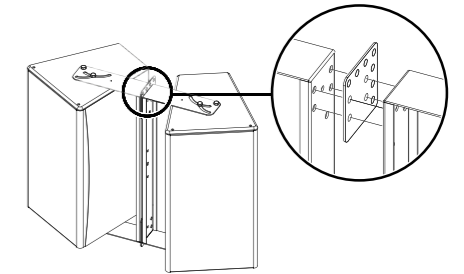
**10S/12S with  
Z5354 E8/E12 Flying adapter  
Z5355 E8/E12 Flying  
adapter link  
Z5015 TV spigot 02**



**10S/12S with  
Z5409/Z5411  
10S/12S Horizontal bracket  
Z5054  
Ci60/Ci90 Flying adapter  
Z5053 Ci60/Ci90 Bracket connector**



**24S/24S-D with  
Z5012 Pipe clamp for TV spigot  
Z5384 VP Flying adapter  
Z5551 VP Flying  
adapter link**

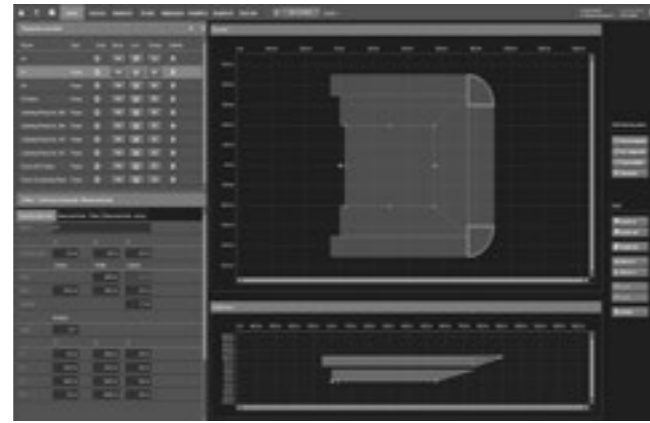


**10S/12S/24S with  
Z5409/Z5411/Z5554  
10S/12S/24S Horizontal bracket  
Z5044 MAX Bracket connector**

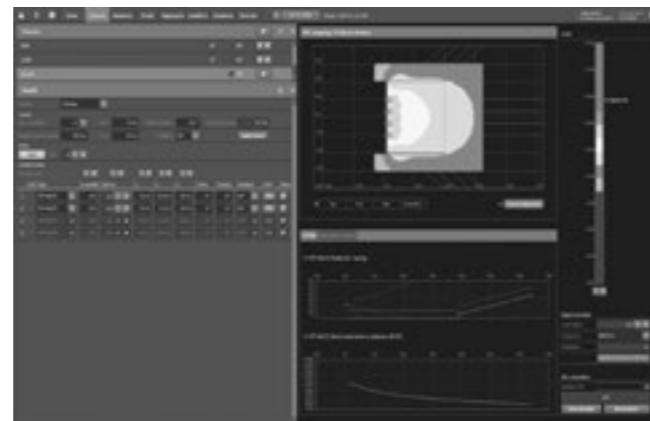
# The d&b ArrayCalc simulation software

The d&b ArrayCalc simulation software is the simulation 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. d&b ArrayCalc is available as a native stand-alone application for both Microsoft Windows<sup>1</sup> (Win7 64-bit or later) and Mac OS X<sup>2</sup> (10.12 or later) operating systems. In combination with the d&b Remote network, this can significantly reduce setup and tuning time and allows for precise initial 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. All sources can be time aligned, and the phase response of a flown system and a ground stacked SUB array can be aligned at a definable reference point. 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 level distribution resulting from the interaction of all active sources can be mapped onto the audience areas in a three-dimensional view. The Remote ID for all devices can be managed in the amplifier tab. EASE and DXF data export capabilities are also available.

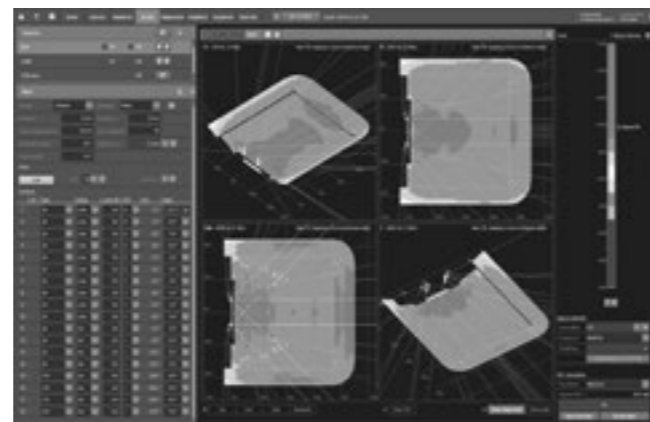
The R1 Remote control software uses the data defined in ArrayCalc to generate an intuitive graphical user interface including the complete setup of the simulated system and all configuration information. This workflow removes the need to manually transfer data from one software program to the other. Further information is provided in the d&b Amplifier and Software brochure which is available for download at [www.dbaudio.com](http://www.dbaudio.com).



Venue



Sources, point sources



3D Plot quad

# The d&b Remote network

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. The importation of settings from ArrayCalc allows the system configuration to be quickly accomplished, providing more time for verification and fine tuning.

## The R1 Remote control software

All features, functions and controls available on the front panel of d&b amplifiers may be remotely controlled and/or monitored using 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. The R1 software is optimized for use with touch screen, mouse and keyboard and runs on both Microsoft Windows<sup>1</sup> (Win7 64-bit or later) and Mac OS X<sup>2</sup> (10.12 or later).

## The R90 Touchscreen remote control

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.

Further information is provided in the d&b xD Installation Amplifiers and Software brochure which is available for download at [www.dbaudio.com](http://www.dbaudio.com).



R1 home screen



R1 in configuration mode



D20/D80 16-band equalizer in R1

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

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

# The d&b amplifiers


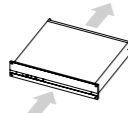
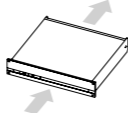

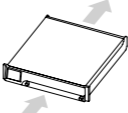
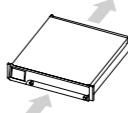
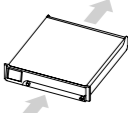
The d&b amplifiers are designed specifically to power d&b loudspeakers and are the beating heart of the d&b System reality. As such, they incorporate Digital Signal Processing for comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls, to fulfil 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](http://www.dbaudio.com).

## Comparison of the d&b amplifiers

	5D	10D	30D	40D	D20	D40	D80
<b>User interface</b>	LED indicators	LED indicators	LED indicators	Colour TFT touchscreen	Encoder/colour TFT touchscreen	Encoder/colour TFT touchscreen	Encoder/colour TFT touchscreen
<b>Output channels</b>	4	4	4	4	4	4	4
<b>Input channels</b>	4 x Dante and 4 x analog	4 x AES3 and 4 x analog	4 x AES3 and 4 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 or 4 x analog	4 x AES3 or 4 x analog or 2 x AES3 and 2 x analog
<b>Latency</b>	1.1 msec (analog) / < 4 msec (Dante)	0.3 msec	0.3 msec	0.3 msec	0.3 msec	0.3 msec	0.3 msec
<b>User equalizers (per channel)</b>	8-band	2 x 16-band	2 x 16-band	2 x 16-band	2 x 16-band	2 x 16-band	2 x 16-band
<b>Delay</b>	1.1 - 300 msec	10 sec/3440 m	10 sec/3440 m	10 sec/3440 m	10 sec/3440 m	10 sec/3440 m	10 sec/3440 m
<b>Maximum output power (THD+N &lt; 0.5%, 12 dB crest factor)</b>	4 x 600 W into 4/8 ohms	4 x 350 W into 8 ohms 4 x 700 W into 4 ohms	4 x 800 W into 8 ohms 4 x 1600 W into 4 ohms	4 x 2000 W into 8 ohms 4 x 2400 W into 4 ohms	4 x 800 W into 8 ohms 4 x 1600 W into 4 ohms	4 x 2000 W into 8 ohms 4 x 2400 W into 4 ohms	4 x 2000 W into 8 ohms 4 x 4000 W into 4 ohms
<b>Output routing</b>		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, Mix TOP/SUB 2-Way Active	Dual Channel, Mix TOP/SUB 2-Way Active
<b>Output connectors</b>	Phoenix Euroblock	Phoenix Euroblock	Phoenix Euroblock	Phoenix Euroblock	NL4 plus central NL8	NL4 plus central NL8	NL4 plus central NL8
<b>GPIO connector</b>	Phoenix Euroblock 4 ports (GPI)	Phoenix Euroblock 5 ports	Phoenix Euroblock 5 ports	Phoenix Euroblock 12 ports	No	No	No
<b>Cable compensation</b>	LoadMatch	LoadMatch	LoadMatch	LoadMatch	LoadMatch	LoadMatch	LoadMatch
<b>Power supply</b>	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	Universal range switched mode power supply with active PFC	Autosensing switched mode power supply with active PFC	Autosensing switched mode power supply with active PFC
<b>Mains voltage</b>	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 127/208 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 127/208 - 240 V, 50 - 60 Hz	100 - 127/208 - 240 V, 50 - 60 Hz
<b>Weight (kg/lb)</b>	4.6/10	10.6/23.4	10.6/23.4	13.3/29.3	10.8/23.8	13.8/30.4	19/42
<b>Dimensions</b>	1 RU x 9.5" x 405 mm	2 RU x 19" x 435 mm	2 RU x 19" x 435 mm	2 RU x 19" x 465 mm	2 RU x 19" x 460 mm	2 RU x 19" x 465 mm	2 RU x 19" x 530 mm
<b>Remote</b>	OCA/AES70 via Ethernet	OCA via Ethernet/CAN	OCA via Ethernet/CAN	OCA/AES70 via Ethernet	OCA via Ethernet/CAN	OCA/AES70 via Ethernet	OCA via Ethernet/CAN
<b>Airflow</b>							

# The controller setups and operation with d&b amplifiers

## CUT mode

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

## 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. High frequency attenuation 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.

## INFRA mode

With the INFRA mode selected, the upper operating frequency of the system is reduced from 105 Hz to 85 Hz. The 21S-SUB can

now be used to supplement applicable d&b loudspeaker systems operated in full range mode.

## CPL function

The CPL (Coupling) function compensates for coupling effects between closely coupled cabinets by reducing the low and mid frequency level. CPL begins gradually around 1 kHz, with the maximum attenuation below 200 Hz. To achieve a balanced frequency response the CPL function can be set to dB attenuation values between 0 and -9. Positive CPL values create an adjustable low frequency boost (0 to +5 dB) and can be set when the system is used in full-range mode without subwoofers.

## 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 installation applications

	4S	5S	8S	10S/10S-D	12S/12S-D	24S/24S-D	44S	12S-SUB	18S-SUB	21S-SUB	27S-SUB	Bi8
<b>5D</b>	x	x	x	x			x	x				x
<b>10D</b>	x	x					x					x
<b>30D</b>			x	x	x	x	x	x	x	x	x	x
<b>40D</b>			x	x	x	x	x	x	x	x	x	x

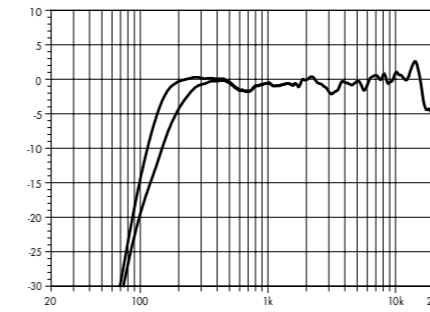
## Maximum loudspeakers per amplifier channel

	4S	5S	8S	10S/10S-D	12S/12S-D	24S/24S-D	44S	12S-SUB	18S-SUB	21S-SUB	27S-SUB	Bi8
	4	4	4	3	1	2	4	2	2	1	2	2
<b>with 5D</b>	4	3	1	2			3	2				2

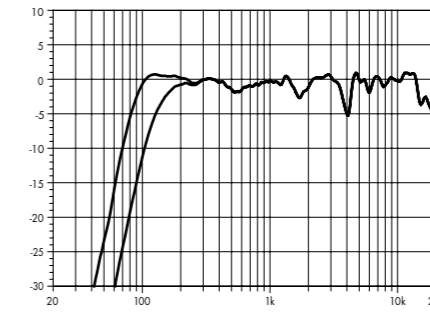
## Available controller settings

	4S	5S	8S	10S/10S-D	12S/12S-D	24S/24S-D	44S	12S-SUB	18S-SUB	21S-SUB	27S-SUB	Bi8
<b>CUT</b>	x	x	x	x	x	x	x					
<b>HFA</b>	x	x	x	x	x	x	x					
<b>CPL</b>	x	x	x	x	x	x	x					

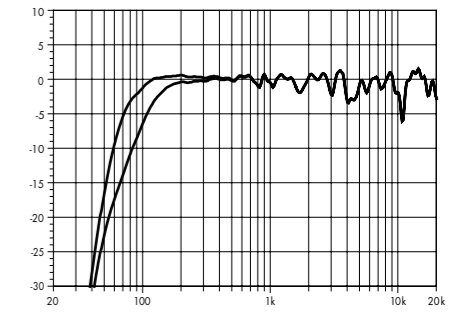
# The xS-Series frequency responses



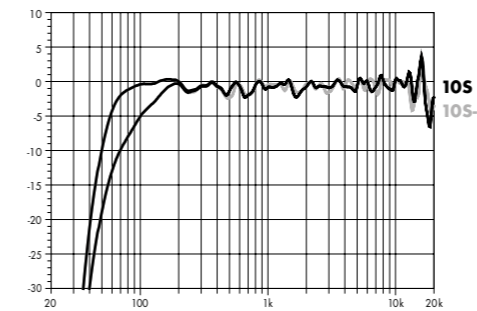
4S standard and CUT



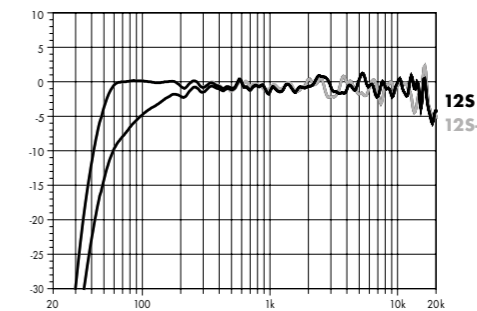
5S standard and CUT



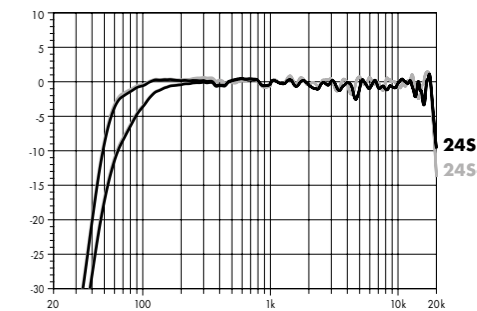
8S standard and CUT



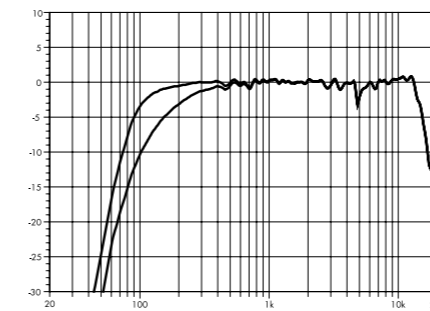
10S/10S-D standard and CUT



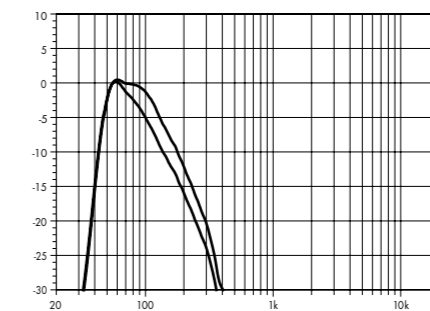
12S/12S-D standard and CUT



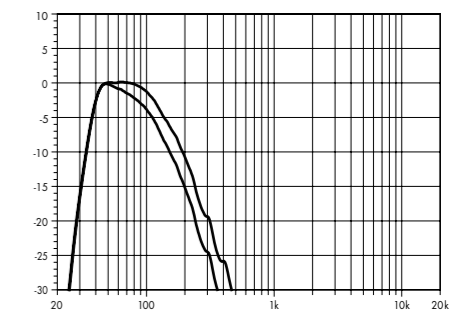
24S/24S-D standard and CUT



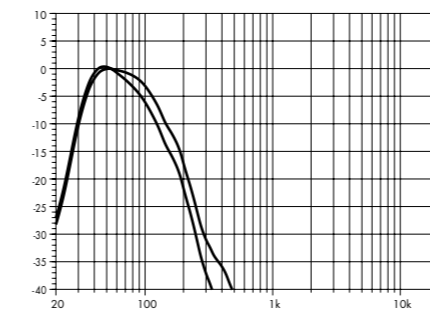
44S standard and CUT



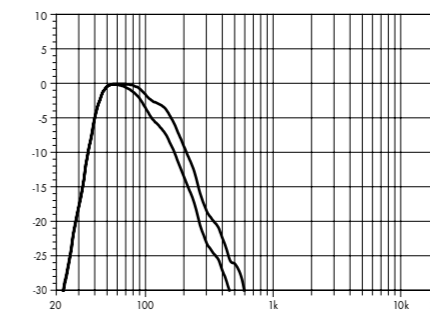
12S-SUB standard and 100 Hz



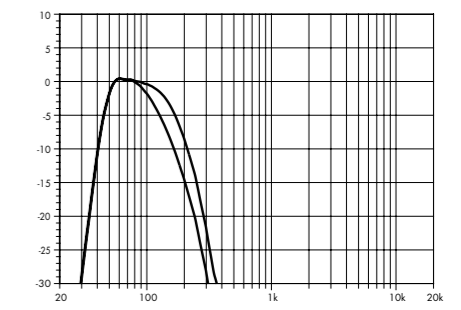
18S-SUB standard and 100 Hz



21S-SUB standard and INFRA



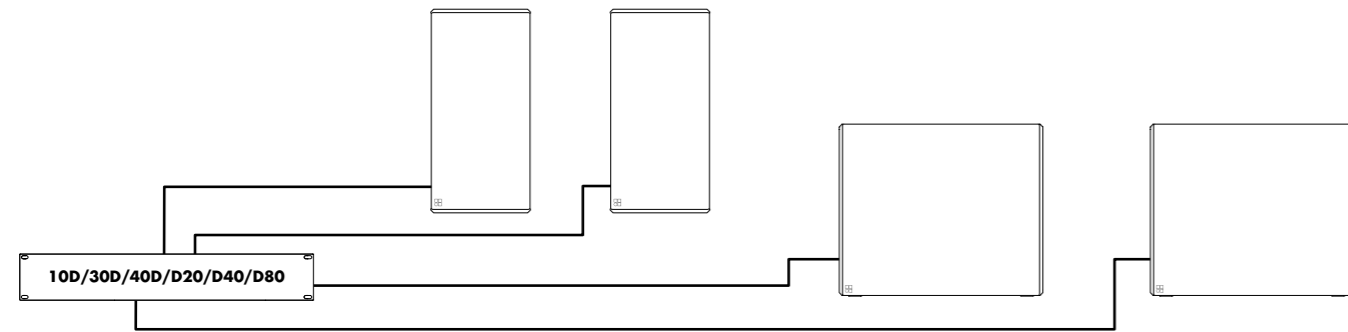
27S-SUB standard and 100 Hz



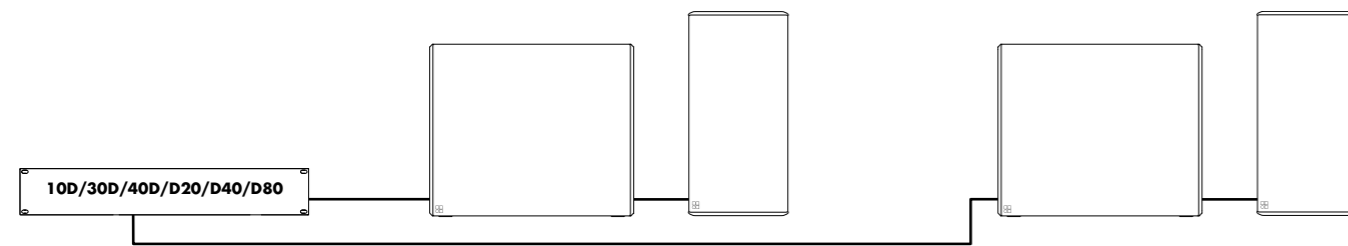
Bi8-SUB standard and 100 Hz



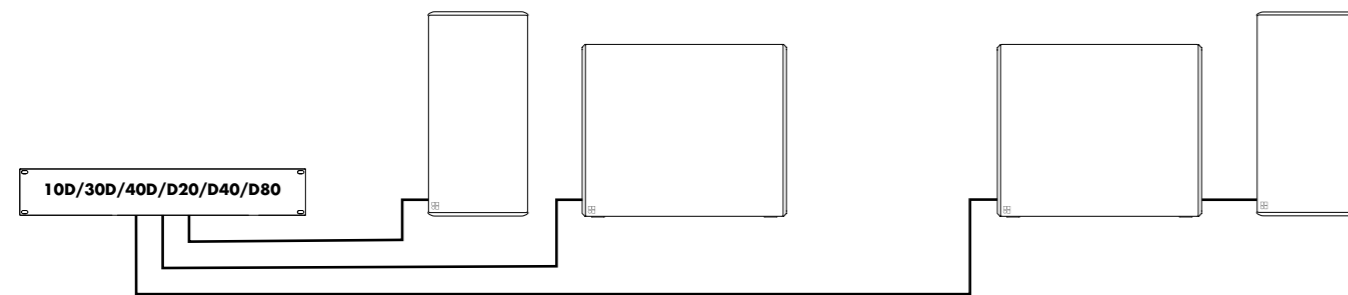
# The d&b amplifier output modes



10D/30D/40D/D20/D40/D80 amplifier in Dual Channel mode for 4S, 5S, 8S, 10D, 10S-D, 12S, 12S-D, 24S, 24S-D or 44S and Bi8, 12S-SUB, 18S-SUB, 21S-SUB or 27S-SUB<sup>1</sup>



10D/30D/40D/D20/D40/D80 amplifier in Mix TOP/SUB mode for 4S, 5S, 8S, 10D, 10S-D, 12S, 12S-D, 24S, 24S-D or 44S and Bi8, 12S-SUB, 18S-SUB, 21S-SUB or 27S-SUB<sup>1</sup>



10D/30D/40D/D20/D40/D80 amplifier in a mixed configuration of Dual Channel and Mix TOP/SUB modes for 4S, 5S, 8S, 10D, 10S-D, 12S, 12S-D, 24S, 24S-D or 44S and Bi8, 12S-SUB, 18S-SUB, 21S-SUB or 27S-SUB<sup>1</sup>

# 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.



The DS10 Audio network bridge front view



The DS10 Audio network bridge rear view

## 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.



The DS20 Audio network bridge front view



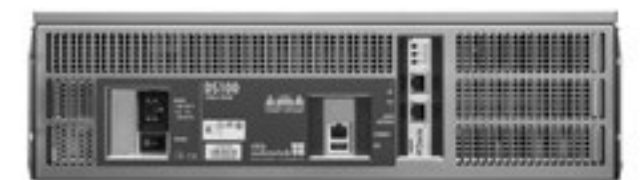
The DS20 Audio network bridge rear view

## DS100 Signal Engine

The 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.

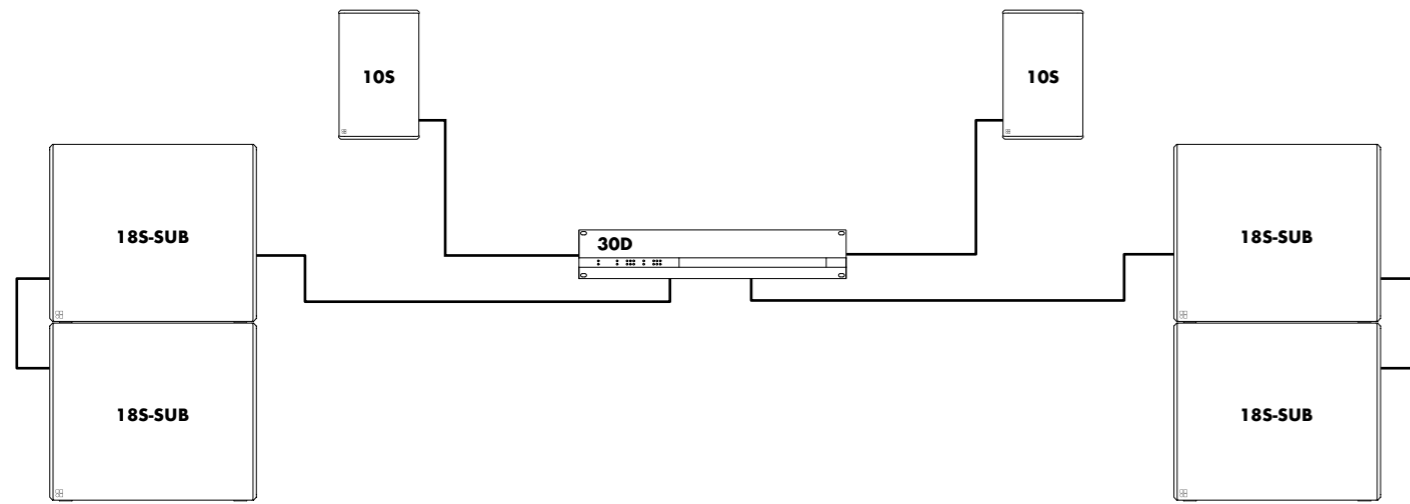


The DS100 Signal Engine front view

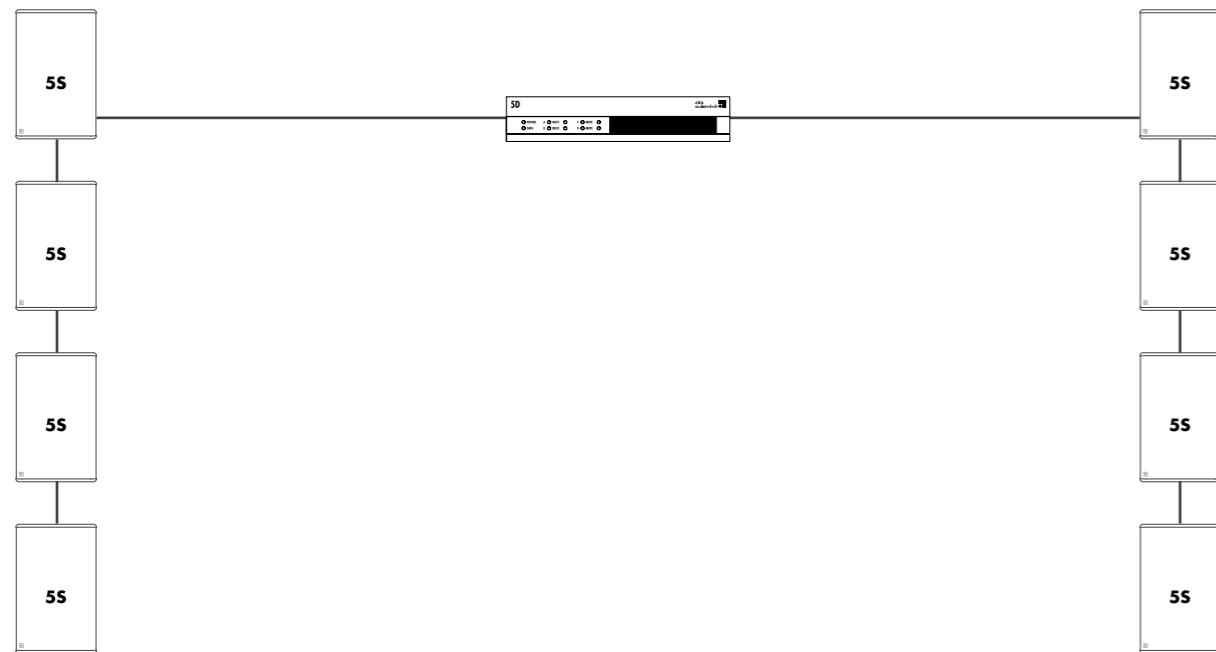


The DS100 Signal Engine rear view

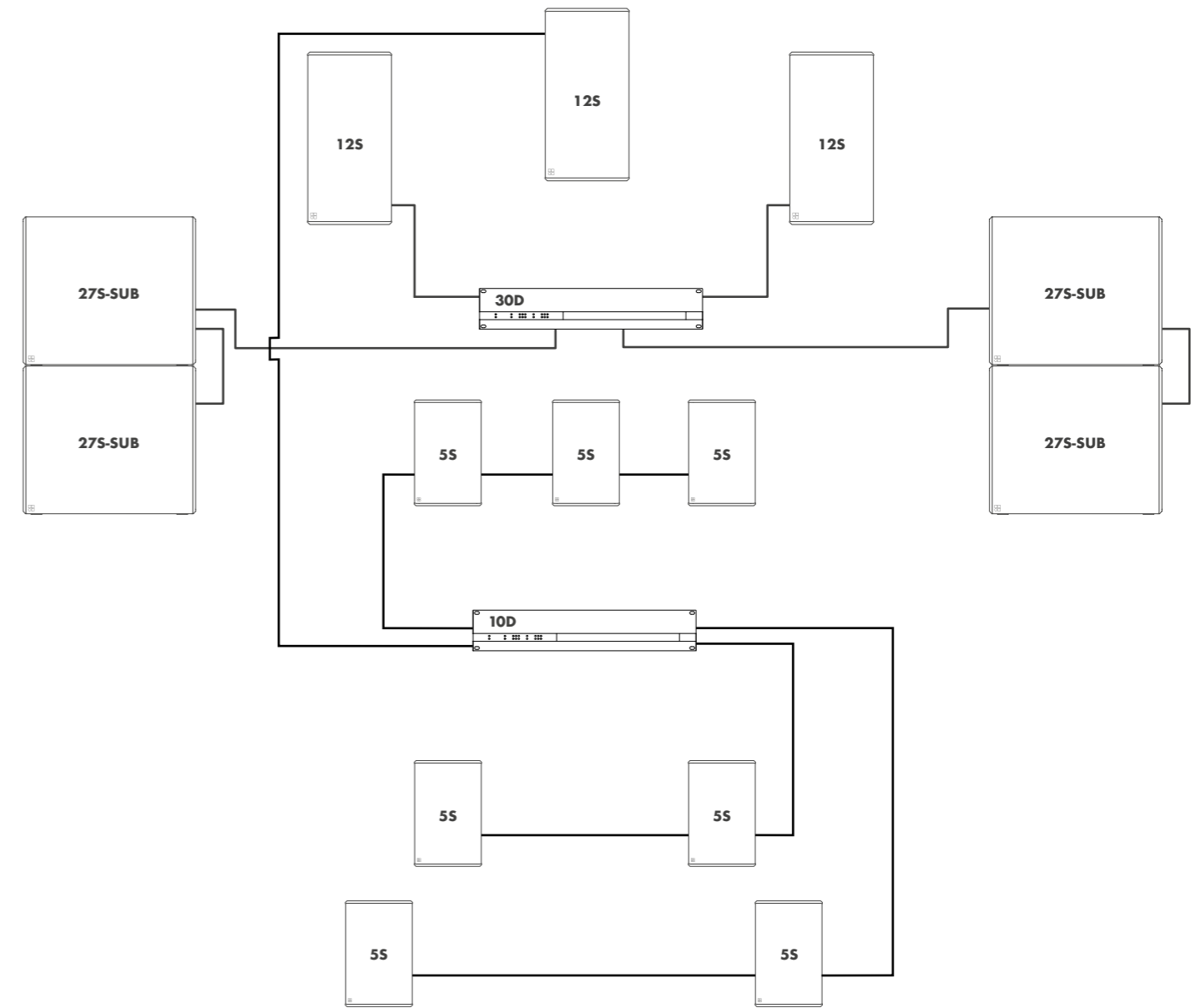
# The xS-Series configuration examples



30D amplifier in Dual Channel mode with 105 loudspeakers and 185-SUBs

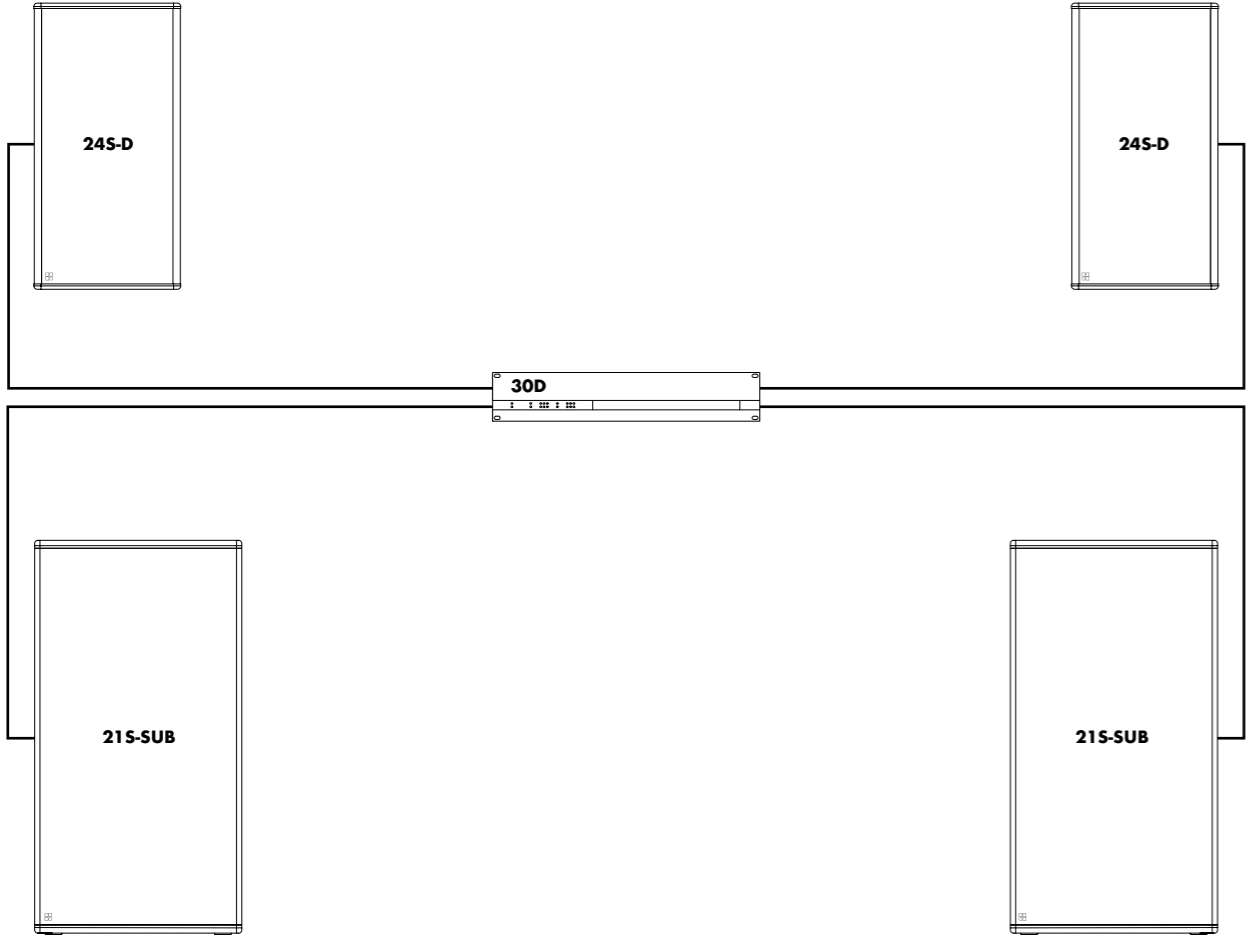


5D amplifier in Dual Channel mode with 55 loudspeakers

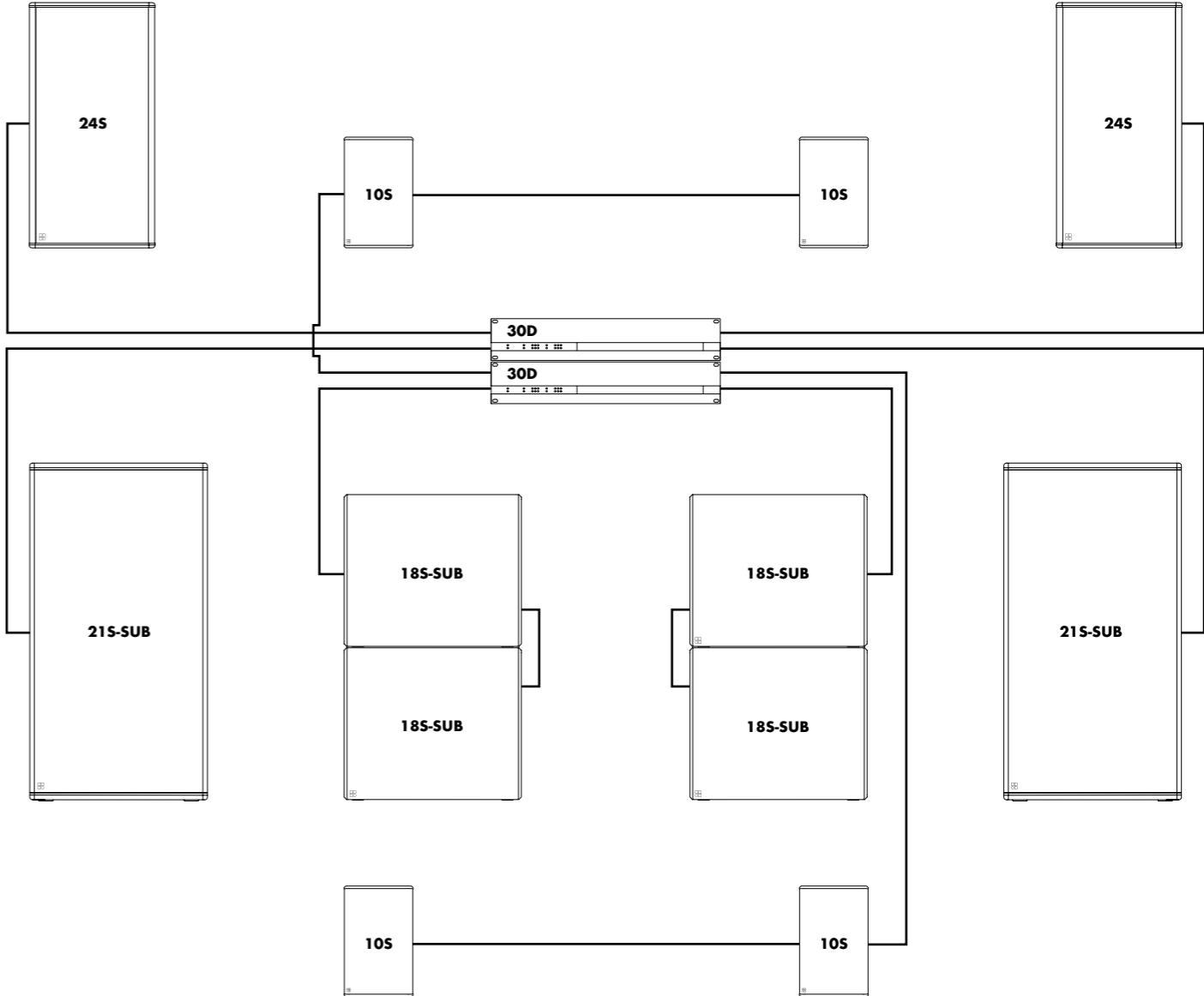


10D and 30D amplifiers in Dual Channel mode with 125 loudspeakers in L/C/R configuration and 275-SUBs with 55 loudspeakers as frontfill and delay

# The xS-Series configuration examples



30D amplifier in Dual Channel mode with 245-D loudspeakers and 215-SUBs in L/R configuration



xS-Series configuration with 30D amplifiers in Dual Channel mode with 245 loudspeakers and 185-SUBs with 215-SUBs in INFRA mode and 105 loudspeakers as frontfill and delay

# The xS-Series product overview

<b>Loudspeakers</b>	Z1615.000	<b>4S loudspeaker</b>	Z5410.000	<b>18S/27S-SUB Horizontal bracket<sup>2</sup></b>
	Z1615.001	<b>4S loudspeaker white</b>	Z5555.000	<b>21S-SUB Horizontal bracket<sup>2</sup></b>
	Z1616.000	<b>5S loudspeaker</b>	Z5556.000	<b>21S-SUB Bracket extension<sup>2</sup></b>
	Z1616.001	<b>5S loudspeaker white</b>	Z5557.000	<b>21S-SUB Flying bracket<sup>2</sup></b>
	Z1617.000	<b>8S loudspeaker</b>	Z5020.000	<b>Flying adapter 02</b>
	Z1617.001	<b>8S loudspeaker white</b>	Z5025.000	<b>Flying adapter 03</b>
	Z1618.000	<b>10S loudspeaker</b>	Z5354.000	<b>E8/E12 Flying adapter</b>
	Z1619.000	<b>10S-D loudspeaker</b>	Z5355.000	<b>E8/E12 Flying adapter link</b>
	Z1624.000	<b>12S loudspeaker</b>	Z5384.000	<b>VP Flying adapter</b>
	Z1625.000	<b>12S-D loudspeaker</b>	Z5551.000	<b>VP Flying adapter link</b>
	Z1610.000	<b>24S loudspeaker</b>	Z5054.000	<b>Ci60/Ci90 Flying adapter</b>
	Z1611.000	<b>24S-D loudspeaker</b>	Z5053.000	<b>Ci60/Ci90 Bracket connector</b>
	Z1650.000	<b>44S loudspeaker</b>	Z5044.000	<b>MAX Bracket connector<sup>3</sup></b>
	Z1630.000	<b>12S subwoofer</b>	Z5015.000	<b>TV spigot for Flying adapter 02</b>
	Z1630.001	<b>12S subwoofer white</b>	Z5029.000	<b>TV spigot M10</b>
	Z1626.000	<b>18S subwoofer</b>	Z5010.000	<b>TV spigot with fixing plate</b>
	Z1613.000	<b>21S subwoofer</b>	Z5012.500	<b>Pipe clamp for TV spigot</b>
	Z1628.000	<b>27S subwoofer</b>	E6532.000	<b>Super clamp</b>
	Z0631.001	<b>Bi8 subwoofer</b>	Z5147.000	<b>Rota clamp</b>
		<b>WR Weather Resistant<sup>1</sup></b>	E6533.000	<b>Adapter M10 for Super clamp</b>
	<b>SC Special Colour<sup>2</sup></b>	Z5034.000	<b>Stand adapter M10</b>	
<b>Accessories</b>	Z5422.000	<b>Wall mount S<sup>2</sup></b>	Z5035.000	<b>Adapter M10 to 3/8"</b>
	Z5422.001	<b>Wall mount S white</b>	Z5024.000	<b>Loudspeaker stand adapter</b>
	Z5402.000	<b>Wall mount M<sup>2</sup></b>		
	Z5402.001	<b>Wall mount M white</b>	<b>Remote network</b>	Z6118.000
	Z5403.000	<b>Wall mount L<sup>2</sup></b>		Z6124.000
	Z5403.001	<b>Wall mount L white</b>		Z6126.000
	Z5404.000	<b>8S Flying bracket<sup>2</sup></b>	<b>Processing and distribution</b>	Z4010.000
	Z5404.001	<b>8S Flying bracket white</b>		Z4011.000
	Z5405.000	<b>10S Flying bracket<sup>2</sup></b>		Z4100.000
	Z5406.000	<b>12S Flying bracket<sup>2</sup></b>		
	Z5408.000	<b>8S Horizontal bracket<sup>2</sup></b>	<b>Amplifiers</b>	Z2880.xxx
	Z5408.001	<b>8S Horizontal bracket white</b>		Z2760.xxx
	Z5409.000	<b>10S Horizontal bracket<sup>2</sup></b>		Z2770.xxx
	Z5411.000	<b>12S Horizontal bracket<sup>2</sup></b>		Z2830.xxx
	Z5553.000	<b>24S Flying bracket<sup>2</sup></b>		Z2750.xxx
	Z5554.000	<b>24S Horizontal bracket<sup>2</sup></b>		Z2850.xxx
	Z5423.000	<b>Mounting bracket 44S</b>		Z2710.xxx
	Z5424.000	<b>L-Mount adapter 44S</b>	<b>Cables and adapters</b>	Z5763.000
	Z5425.000	<b>Cluster bracket 44S</b>		
	Z5426.000	<b>Swivel bracket 44S</b>		
Z5427.501	<b>44S Backbox</b>			
Z5428.501	<b>44S Backbox grill</b>			
Z5450.000	<b>B8 Horizontal bracket</b>			
Z4550.901	<b>B8 Horizontal bracket SC</b>			
Z5412.000	<b>12S-SUB Horizontal bracket<sup>2</sup></b>			
Z5412.001	<b>12S-SUB Horizontal bracket white</b>			
				<b>R60 USB to CAN interface</b>
				<b>R70 Ethernet to CAN interface</b>
				<b>R90 Touchscreen remote control</b>
				<b>DS10 Audio network bridge</b>
				<b>DS20 Audio network bridge</b>
				<b>DS100 Signal Engine</b>
				<b>5D amplifier<sup>4</sup></b>
				<b>10D amplifier<sup>4</sup></b>
				<b>30D amplifier<sup>4</sup></b>
				<b>40D Amplifier<sup>4</sup></b>
				<b>D20 amplifier<sup>5</sup></b>
				<b>D40 amplifier<sup>5</sup></b>
				<b>D80 amplifier<sup>5</sup></b>
				<b>WR 5,5m cable 2x2.5mm<sup>2 6</sup></b>

<sup>3</sup> Supplied in pairs

<sup>4</sup> The complete list of installation amplifier versions is available in the xD Installation Amplifier and Software brochure

<sup>5</sup> The complete list of mobile amplifier versions is available in the D Amplifier and Software brochure

<sup>6</sup> Other lengths on request

