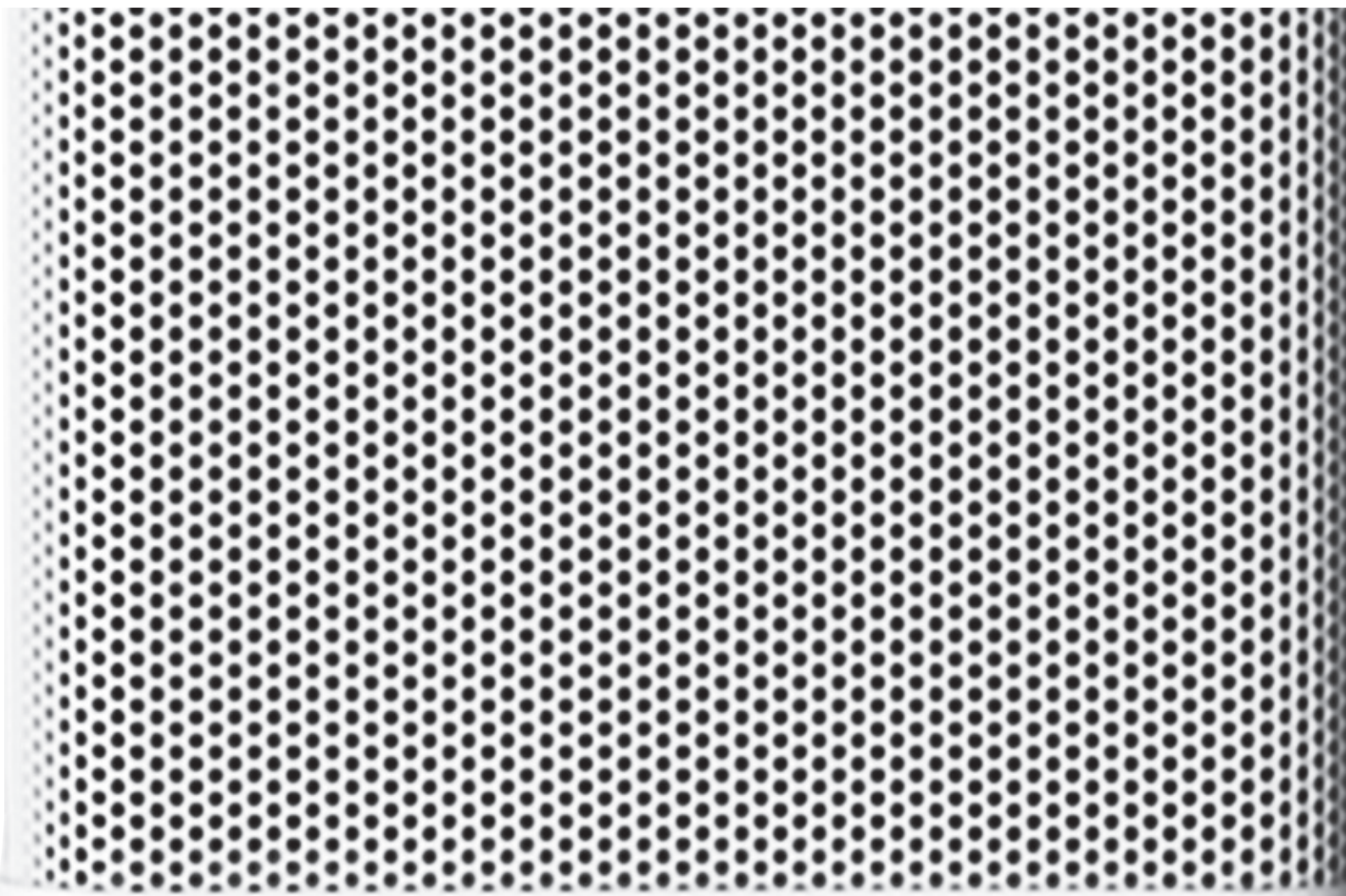
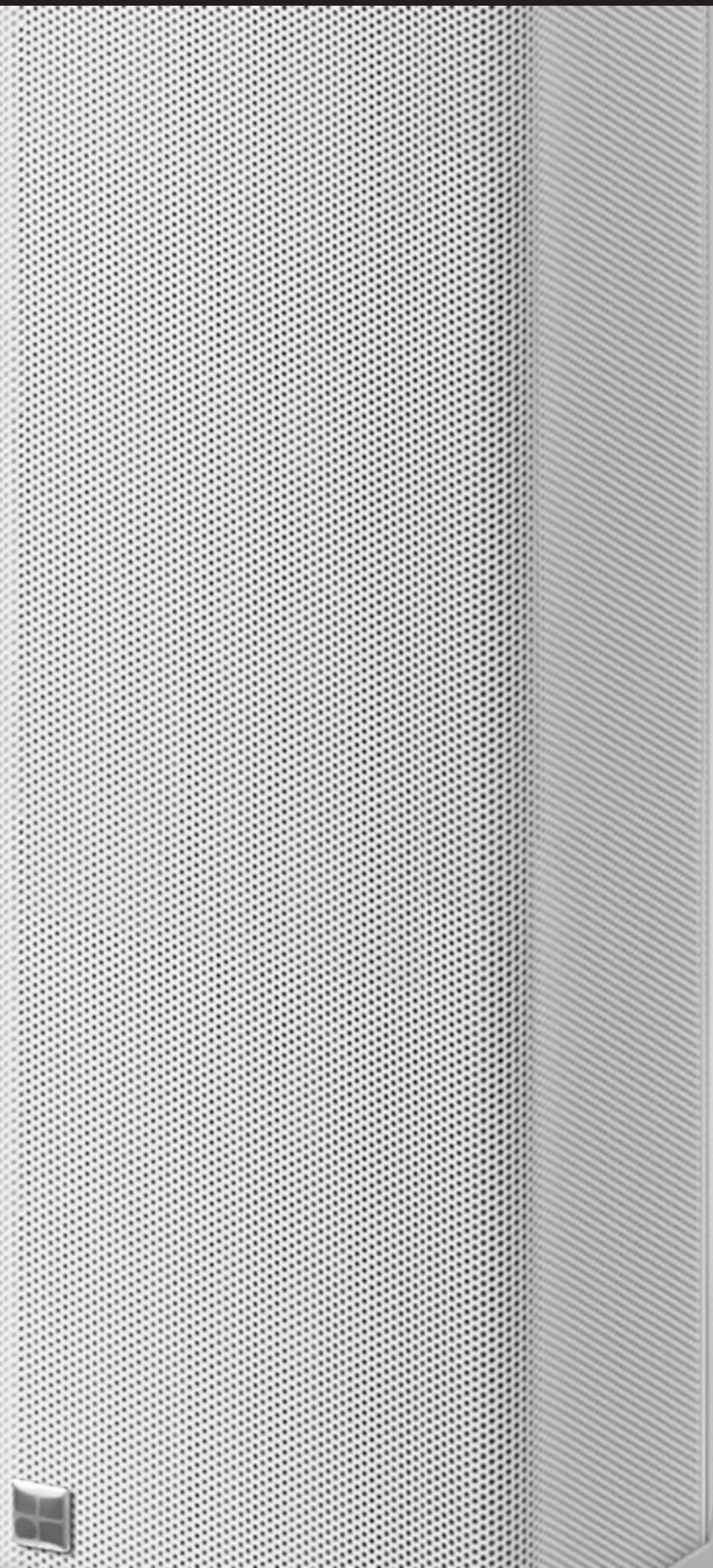


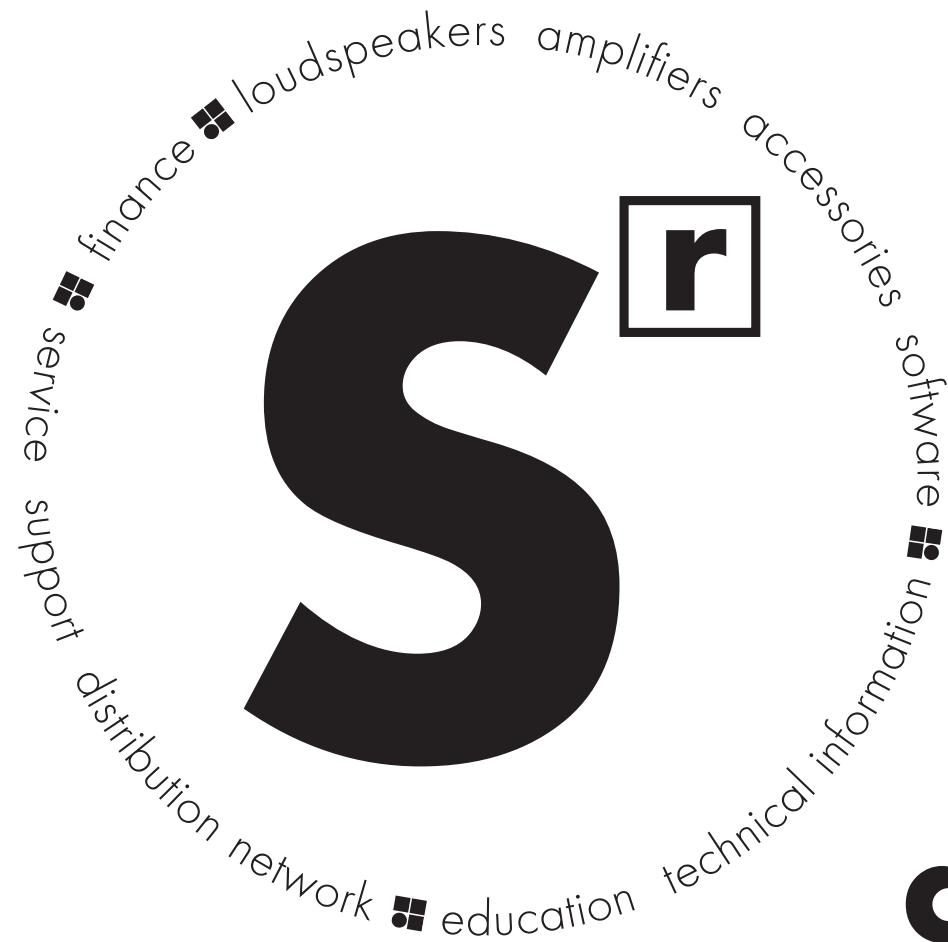
xC

xC-Series





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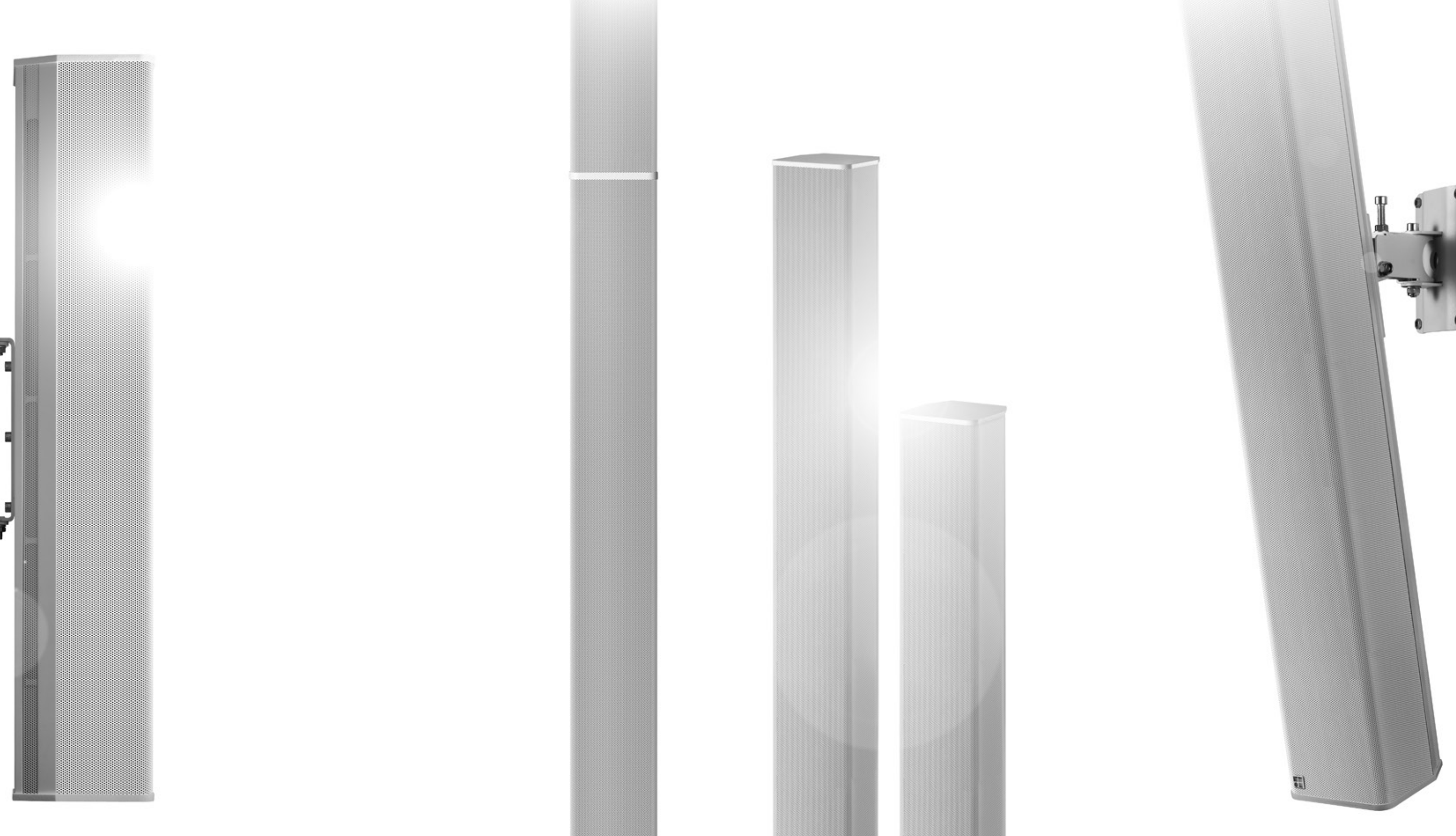
d&b System reality

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 **xC-Series** column loudspeakers are designed for seamless integration into difficult acoustic and aesthetic environments. Flat and parallel mounting options create a discreet profile whilst a broad range of application requirements are addressed by steering dispersion down on to the listening plane. The xC-Series

encompasses three column loudspeakers for deployment within permanently installed applications. While utilizing different driver configurations, all xC-Series cabinets and available accessories share the same unobtrusive design features and can be properly colour matched to interior designs. The combination of high

vertical directivity and cardioid horizontal dispersion control minimizes reflections from behind the loudspeaker; reducing dispersion into the reverberant field and increasing gain before feedback, resulting in excellent speech intelligibility. Intended applications include houses of worship, conference and meeting

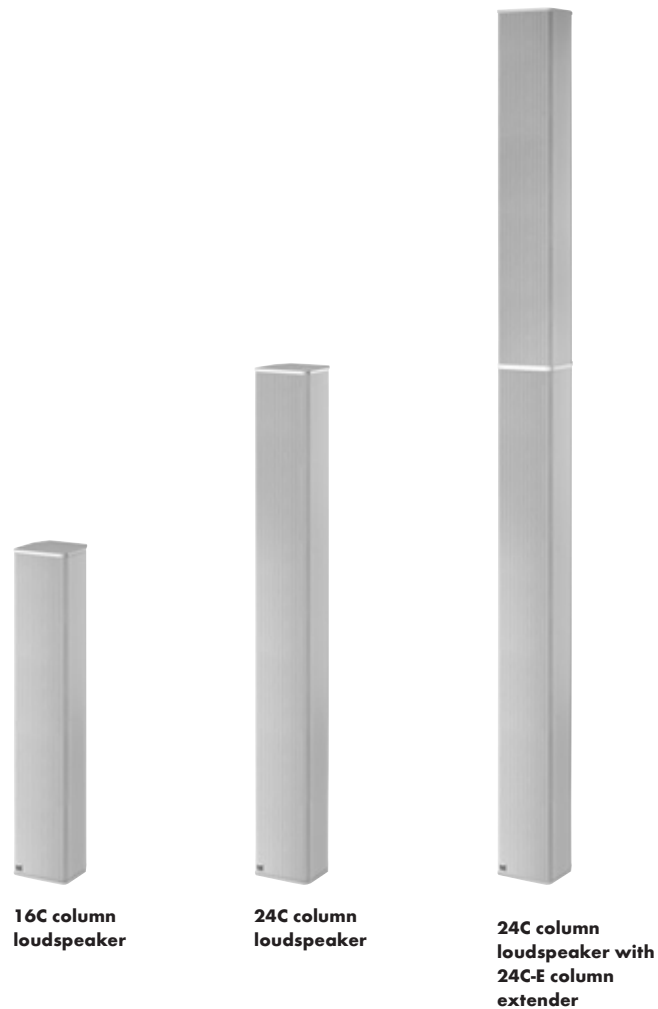
facilities, auditoriums, ball rooms, town halls, parliaments, lecture theatres and assembly halls.

The xC-Series

The **16C** is the smallest loudspeaker in the Series, comprised of four 4" low/mid drivers and a CD horn. The **24C** features six 4" low/mid drivers and six 1.1" dome tweeters mounted in a vertical HF array. With a further six 4" drivers, the **24C-E** is a passive extension for the 24C.

The 16C, 24C and 24C-E employ LF drivers in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet. This design provides constant directivity in the horizontal plane with a broadband attenuation to the rear of 18 dB. This cardioid pattern produces minimal energy behind the loudspeaker, reducing reflections and resulting in balanced level distribution across the listening area while increasing gain before feedback when working with open microphones. Passive filtering of the low/mid drivers also minimizes unwanted dispersion in the vertical plane and adds approximately 5° downtilt to the distribution of low and mid frequencies.

The rear of the xC-Series loudspeakers feature two continuous rails for mounting purposes. The 24C-E passive extension is attached directly to the 24C, with no additional amplification or processing required. When using the 24C/24C-E combined only one bracket is required for safe mounting.



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.

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 **10D** amplifier and **30D** amplifier both provide four channels and are intended for integration within permanent installations. The 10D is designed to drive smaller d&b loudspeakers and applications requiring lower Sound Pressure Levels whereas the high powered 30D is designed to drive all d&b loudspeakers at medium to high SPLs. The dual channel **D6** amplifier is designed to provide low Sound Pressure Levels in either mobile or installed applications. These amplifiers all provide extensive user-definable equalization and delay capabilities to fine tune the system for artistic taste.

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.



10D amplifier



30D amplifier



D6 amplifier



DS10 Audio network bridge



DS100 Signal Engine

The 16C column loudspeaker

16C column loudspeaker

The 16C 2-way passive column loudspeaker is the smallest in the Series housing four 4" neodymium drivers and a 0.75" compression driver mounted on a CD horn. The HF horn has a nominal dispersion of 90° x 40° (h x v). The 4" drivers are arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet. This design provides a constant directivity pattern of 90° in the horizontal plane with a broadband attenuation to the rear of approximately 18 dB. This cardioid pattern produces minimal energy behind the loudspeaker, reducing reflections and resulting in balanced level distribution across the listening area while increasing gain before feedback when working with open microphones.

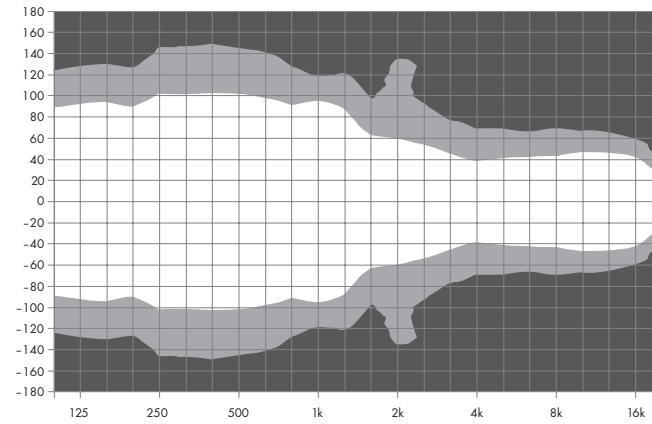
The 16C loudspeaker enclosure is constructed from an extruded aluminium back and a metal baffle, while the front and sides of the cabinet are protected by a metal grill. For mounting purposes, continuous T-slot rails are integrated into the rear of the cabinet.

System data

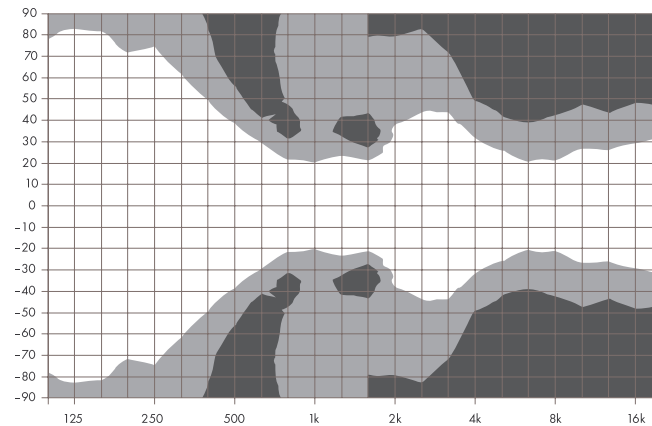
Frequency response (-5 dB standard)	110 Hz - 18 kHz
Max. sound pressure (1 m, free field) ¹	
with D6/10D	122 dB
with D20/30D	122 dB
with D80	122 dB

Loudspeaker data

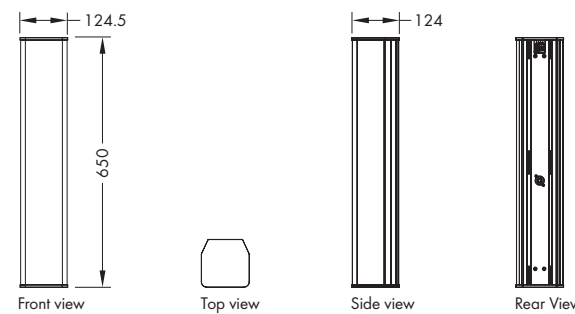
Nominal impedance	12 ohms
Power handling capacity (RMS/peak 10 msec)	100/500 W
Dispersion angle (h x v)	90° x 40°
Components	4 x 4" driver with neodymium magnet
.....	1 x 0.75" compression driver mounted on CD horn
.....	Passive crossover network
Connections	4-pole Phoenix terminal
.....	1 x NL4
Weight	5 kg (11 lb)



16C horizontal dispersion characteristics²



16C vertical dispersion characteristics²



16C 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 24C column loudspeaker

24C column loudspeaker

The 24C 2-way passive column loudspeaker features six 4" neodymium drivers and a HF array comprising six 1.1" dome tweeters providing a nominal horizontal dispersion of 90°. The HF array has a nominal vertical dispersion of 20°, which can be adjusted constantly between 0° and -14° to target audience listening areas. The beam produced by the low/mid drivers is tilted downwards by 5°, offering significant directivity down to 370 Hz. The 4" drivers are arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet. This design provides a constant directivity pattern of 90° in the horizontal plane with a broadband attenuation to the rear of 18 dB.

This cardioid pattern produces minimal energy behind the loudspeaker, reducing reflections and resulting in balanced level distribution across the listening area while increasing gain before feedback when working with open microphones.

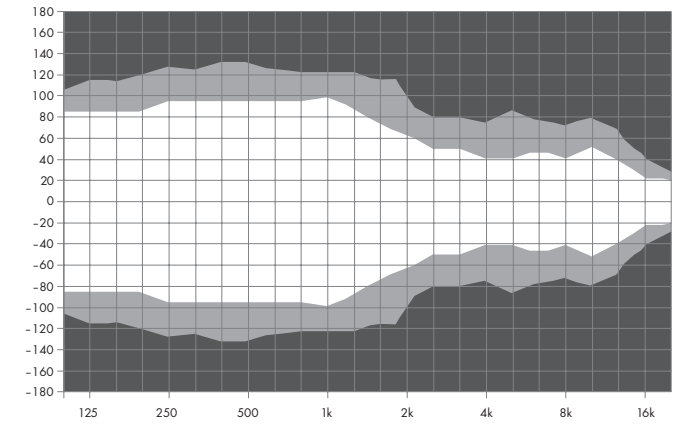
The 24C loudspeaker enclosure is constructed from an extruded aluminium back and a metal baffle, while the front and sides of the cabinet are protected by a metal grill. For mounting purposes, continuous T-slot rails are integrated into the rear of the cabinet.

System data

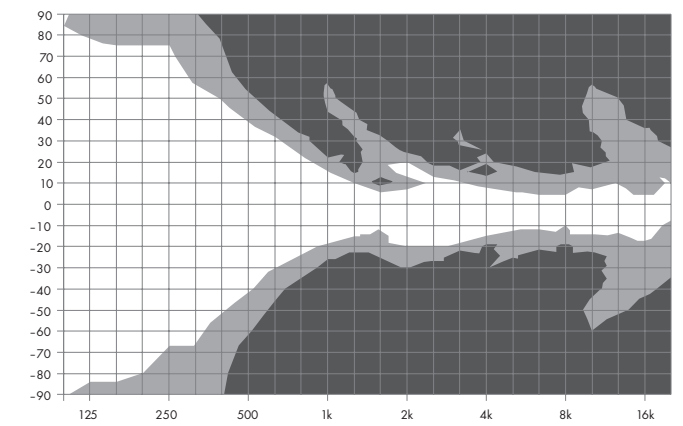
Frequency response (-5 dB standard)	110 Hz - 17 kHz
Frequency response (-5 dB CUT mode)	150 Hz - 17 kHz
Max. sound pressure (1 m, free field) ¹	
with D6/10D	126 dB
with D20/30D	126 dB
with D80	126 dB

Loudspeaker data

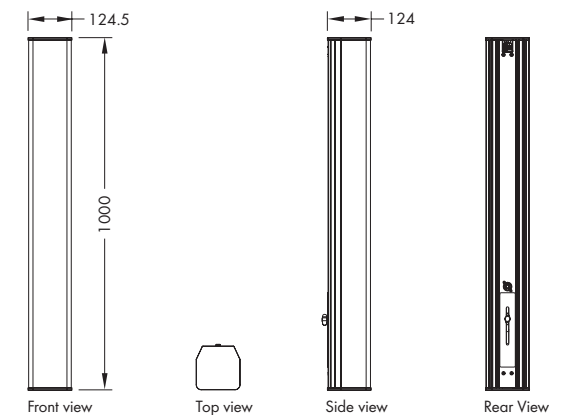
Nominal impedance	12 ohms
Power handling capacity (RMS/peak 10 msec)	125/600 W
Dispersion angle (h x v)	90° x 20°
Vertical aiming of LF/MF beam	-5°
Vertical adjustment of HF section	0° to -14°
Components	6 x 4" driver with neodymium magnet
.....	6 x 1.1" dome tweeter mounted in vertical horn array
.....	Passive crossover network
Connections	4-pole Phoenix terminal
.....	1 x NL4
Weight	9 kg (19.8 lb)



24C horizontal dispersion characteristics²



24C vertical dispersion characteristics²



24C 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

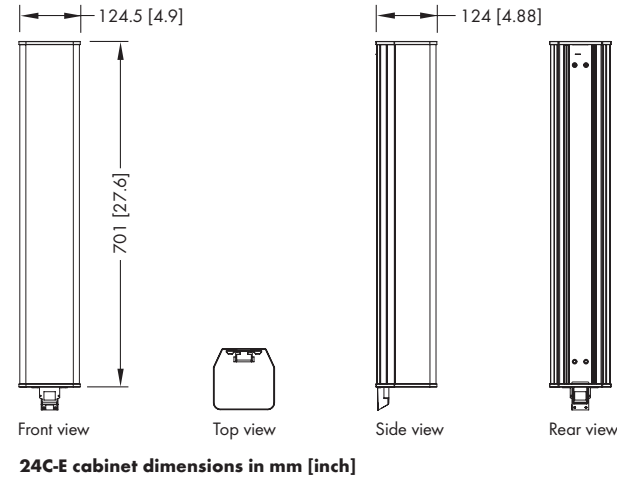
The 24C-E column extender

24C-E column extender

The 24C-E passive extender is for use with the 24C column loudspeaker. The cabinet houses six 4" neodymium drivers, providing an extension of vertical directivity down by a further octave to 190 Hz. Connections between the loudspeakers are made passively, requiring only one amplifier channel. The 4" drivers are arranged in a unique cardioid setup utilizing damped ports at the rear of the cabinet. This design provides a broadband attenuation to the rear of 18 dB. The 24C-E loudspeaker enclosure is constructed from an extruded aluminium back and a metal baffle, while the front and sides of the cabinet are protected by a metal grill. The 24C-E features extendable rails to accommodate the attachments of the 24C. N-lok connectors are incorporated within the cabinet to link with the 24C loudspeaker.

Loudspeaker data

Power handling capacity (RMS/peak 10 msec) 125/600 W
 Components 6 x 4" driver with neodymium magnet
 Connections fixed cable gland with 2-pole Mate-N-Lok mini
through 24C
 Weight 7 kg (15.4 lb)



The 24C column loudspeaker with the 24C-E column extender

24C column loudspeaker with 24C-E column extender

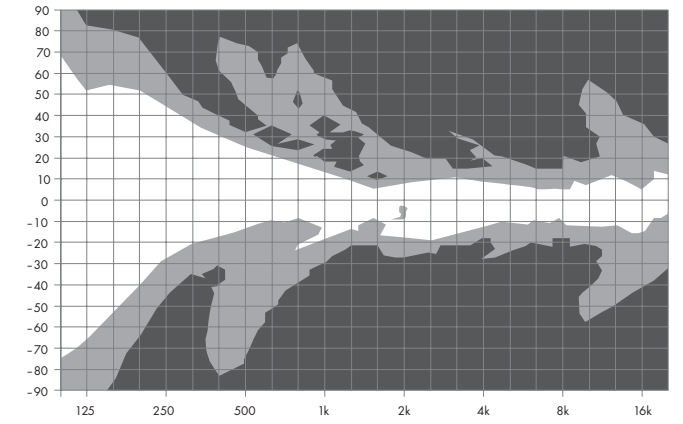
The combined 24C/24C-E extend the vertical pattern control down to 190 Hz with a 5° downward tilt of the low/mid section. The HF array can be continually adjusted from 0° to -14° providing precise targeting of the audience area. The 4" drivers are arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet. This design provides a constant directivity pattern of 90° in the horizontal plane with a broadband attenuation to the rear of 18 dB. This cardioid pattern produces minimal energy behind the loudspeaker, reducing reflections and resulting in balanced level distribution across the listening area while increasing gain before feedback when working with open microphones.

System data

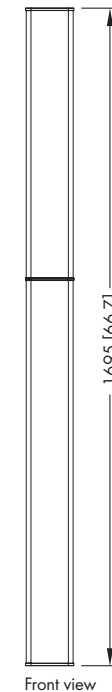
Frequency response (-5 dB standard) 110 Hz - 17 kHz
 Frequency response (-5 dB CUT mode) 150 Hz - 17 kHz
 Max. sound pressure (1 m, free field)¹
 with D6/10D 128 dB
 with D20/30D 128 dB
 with D80 128 dB

Loudspeaker data

Nominal impedance 6 ohms
 Power handling capacity (RMS/peak 10 msec) 250/1200 W
 Dispersion angle (h x v) 90° x 20°
 Vertical aiming of LF/MF beam -5°
 Vertical adjustment of HF section 0° to -14°
 Components 12 x 4" driver with neodymium magnet
 6 x 1.1" dome tweeter mounted in vertical horn array
 Weight 16 kg (35 lb)



24C with 24C-E vertical dispersion characteristics²



24C with 24C-E 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

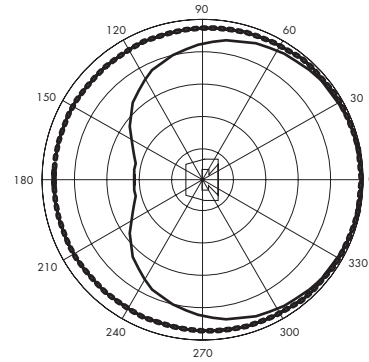
The xC-Series cardioid dispersion

The xC-Series directivity index

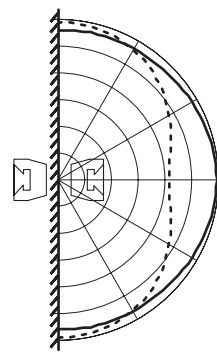
xC-Series cardioid dispersion

Conventional column loudspeakers provide no significant horizontal directivity below 2 kHz due to their physical size. At low and mid frequencies, the resulting polar pattern is almost omni-directional as shown by the dotted line in the Free field horizontal polar plot illustration. The continuous line shows the cardioid pattern of the 24C/24C-E with reduced radiation to the rear of the loudspeaker.

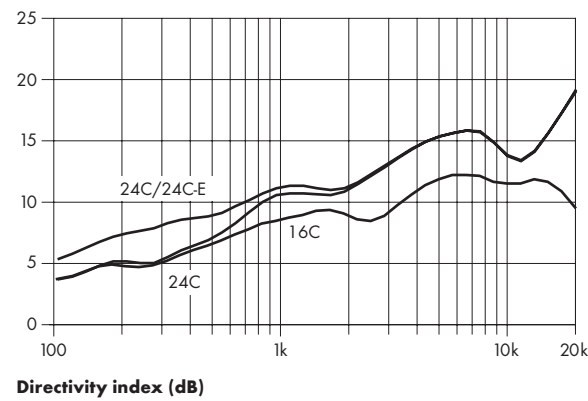
Typically, column loudspeakers are mounted onto walls or other hard plane surfaces which act as an acoustic mirror, as shown in the Wall mounted horizontal polar plot illustration. This results in the room not only being covered by the sound of the actual column loudspeaker, but also by the sound produced by its virtual mirror source from behind. In the case of conventional column loudspeakers, the mirror source radiates at a similar level as the loudspeaker itself. The combination of both sources results in a dipolar characteristic where the main energy is radiated along the walls as indicated by the dotted line. With their cardioid dispersion patterns, when similarly wall mounted, the 24C/24C-E provide an even dispersion characteristic and useful directivity, as shown by the continuous line in the Wall mounted horizontal polar plot.



Free field horizontal polar plot, conventional vs cardioid column loudspeaker



Wall mounted horizontal polar plot, conventional vs cardioid column loudspeaker

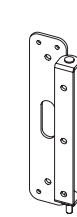


Directivity index (dB)

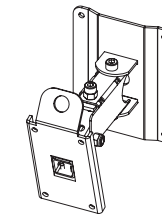
The xC-Series mounting accessories and examples

Safety approval

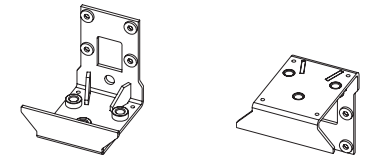
d&b loudspeakers and accessories are designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1).



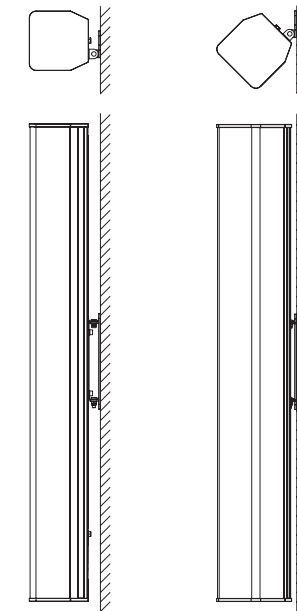
Z5440 Wall mount bracket



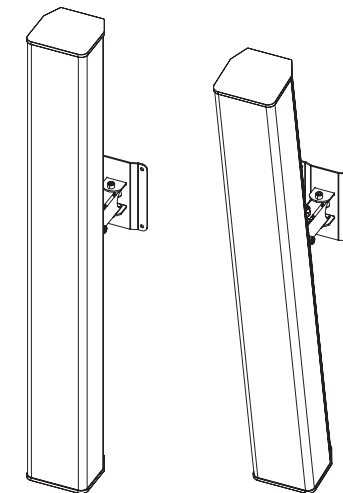
Z5442 Wall mount column



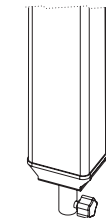
Z5446 Mounting adapter column



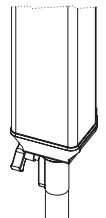
24C/16C with Z5440 Wall mount bracket



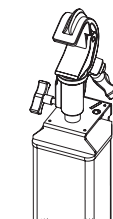
24C/16C with Z5442 Wall mount column



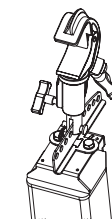
24C/16C with Z5446 Mounting adapter column Z5034 Stand adapter M10



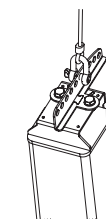
24C/16C with Z5446 Mounting adapter column Z5029 TV spigot M10 for deployment on lighting stand



24C/16C with Z5446 Mounting adapter column Z5029 TV spigot M10 Z5012 Pipe clamp for TV spigot



24C/16C with Z5446 Mounting adapter column Z5354 E8/E12 Flying adapter Z5015 TV spigot 02



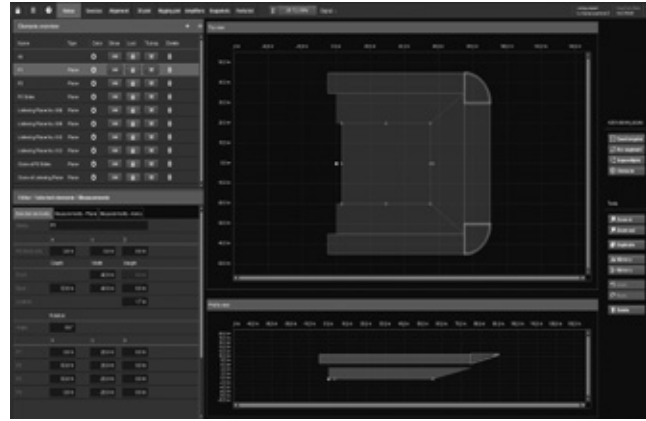
24C/16C with Z5446 Mounting adapter column Z5354 E8/E12 Flying adapter

The d&b ArrayCalc simulation software

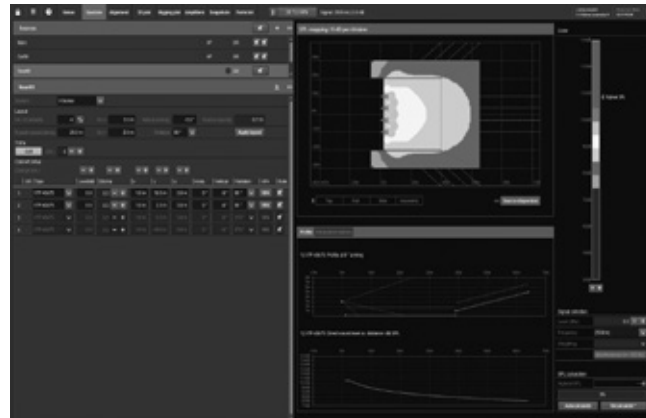
The d&b ArrayCalc simulation software is the simulation tool for d&b line arrays, column and point source loudspeakers as well as subwoofers. This is a comprehensive toolbox for all tasks associated with acoustic design, performance prediction, alignment, rigging and safety parameters. d&b ArrayCalc is available as a native stand-alone application for both Microsoft Windows¹ and Mac OS X² 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.

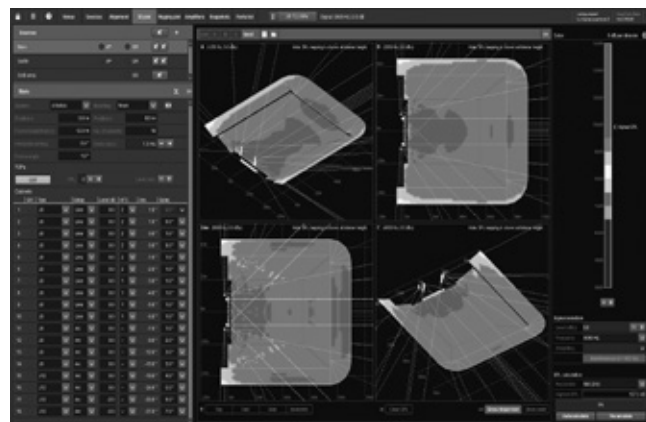
The R1 Remote control software uses the data defined in ArrayCalc to generate an intuitive graphical user interface including the complete setup of the simulated system and all configuration information. This workflow removes the need to manually transfer data from one software program to the other.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



Venue



Sources, point sources



3D Plot quad

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. The importation of settings from ArrayCalc allows the 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 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.

For mobile applications, d&b System check verifies that the system performs within a predefined condition. Extensive facilities for storing and recalling system settings are provided allowing these to be repeated, as and when required. 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.

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

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

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 amplifiers

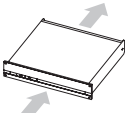
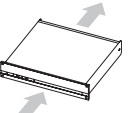
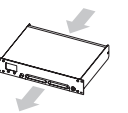
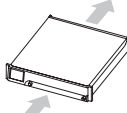
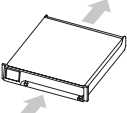
The d&b amplifiers are designed specifically to power d&b loudspeakers and are the beating heart of the d&b System reality. As such, they incorporate Digital Signal Processing for comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls, to fulfil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

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

The operation with d&b amplifiers

The xC-Series frequency responses

Amplifier controller setups

CUT mode

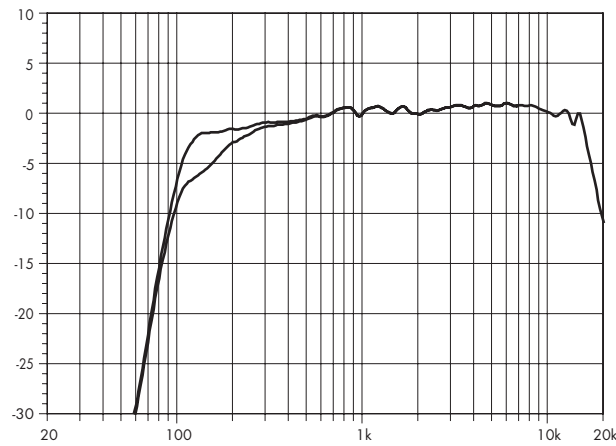
Set to CUT, the cabinet low frequency level is reduced and is configured for use with d&b active subwoofers.

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.

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 at 1 kHz, with maximum attenuation below 400 Hz, providing a balanced frequency response when cabinets are used in arrays of two or more. The CPL function can be set in dB attenuation values between -9 and 0, or a positive CPL value which creates an adjustable low frequency boost around 65 Hz (0 to +5 dB).



24C frequency responses standard and CUT

Recommended amplifiers for installation applications

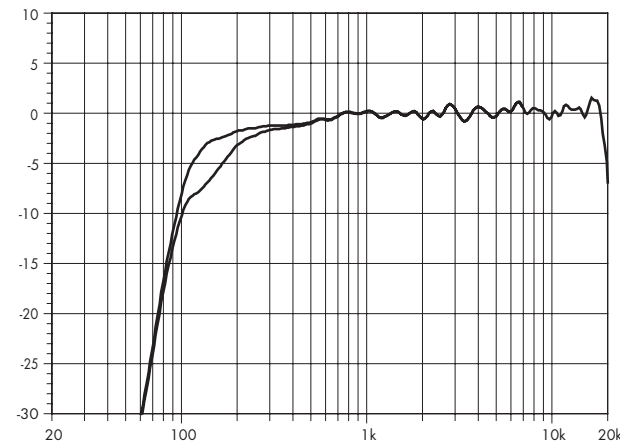
	16C	24C	24C + 24C-E
D6	x	x	x
10D	x	x	x
30D	x	x	x

Maximum loudspeakers per amplifier channel

	16C	24C	24C + 24C-E
	3	2	1

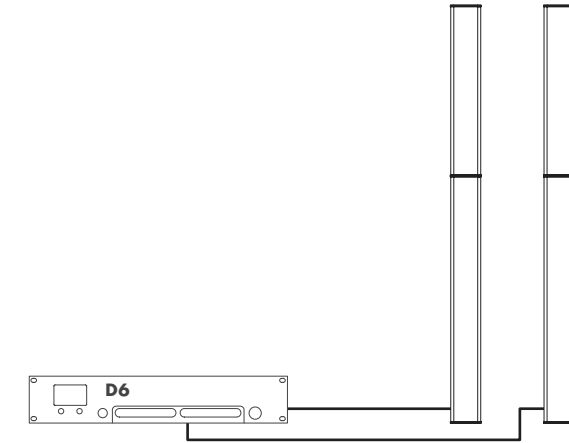
Available controller settings

	16C	24C	24C + 24C-E
CUT	x	x	x
HFA	x	x	x
CPL	x	x	x

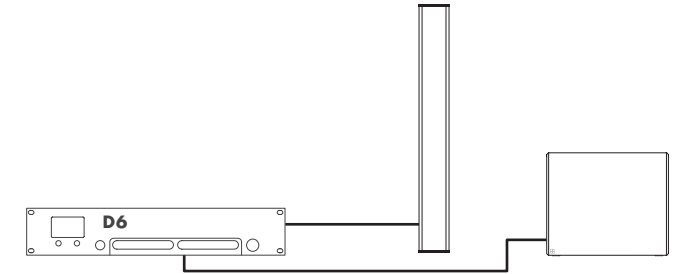


16C frequency responses standard and CUT

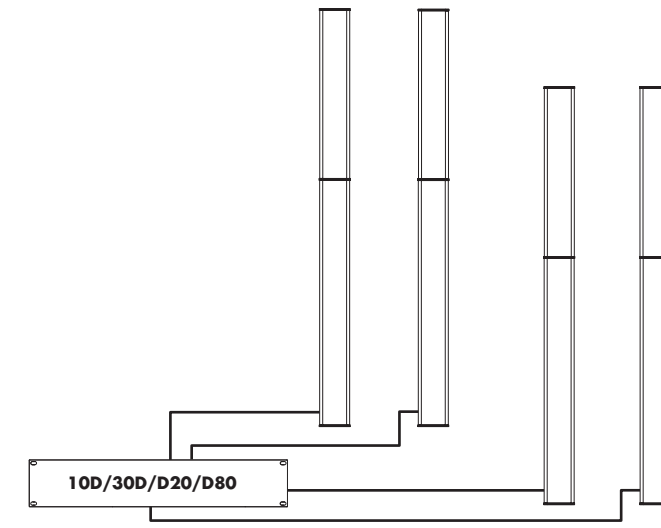
The d&b amplifier output modes



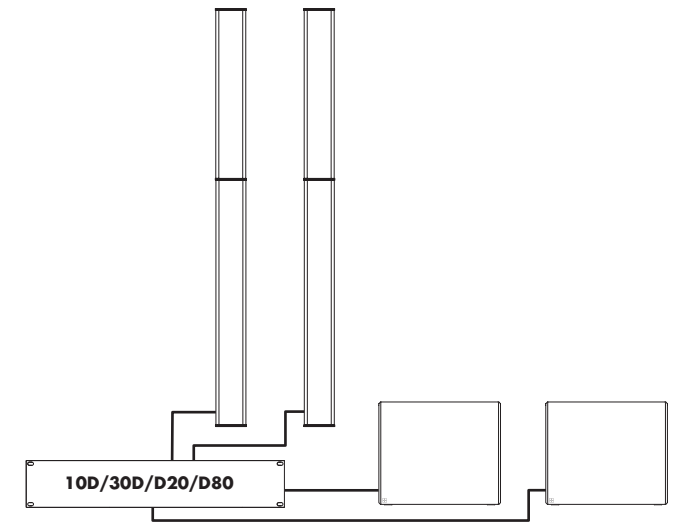
D6 amplifier in Dual Channel mode for 24C, 24C + 24C-E and/or 16C



D6 amplifier in Dual Channel mode for 24C, 24C + 24C-E or 16C and 12S-SUB, 18S-SUB or 27S-SUB



10D/30D/D20/D80 amplifier in Dual Channel mode for 24C, 24C + 24C-E and/or 16C



10D/30D/D20/D80 amplifier in Dual Channel mode for 24C, 24C + 24C-E and/or 16C and 12S-SUB, 18S-SUB and/or 27S-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.

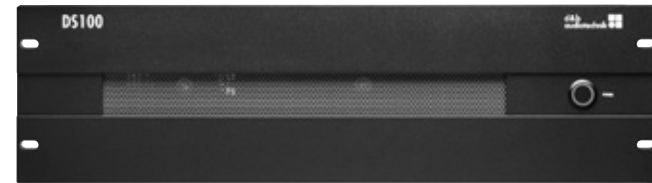
The DS10 incorporates an integrated 5-port switch, offering a primary and redundant network for the Dante protocol, as well as advanced functions such as Multicast Filtering and VLAN modes. Using the DS10 Audio network bridge, audio signals and remote control data can be combined using a single Ethernet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

Loudspeakers	Z1700.000	24C column loudspeaker black
	Z1700.001	24C column loudspeaker white
	Z1710.000	24C-E column extender black
	Z1710.001	24C-E column extender white
	Z1720.000	16C column loudspeaker black
	Z1720.001	16C column loudspeaker white
Accessories	Z5440.000	SC Special Colour¹
	Z5440.001	Wall mount bracket black¹
	Z5442.000	Wall mount bracket white¹
	Z5442.001	Wall mount column black¹
	Z5446.000	Wall mount column white¹
	Z5446.001	Mounting adapter column black¹ Mounting adapter column white¹
Remote network	Z6118.000	R60 USB to CAN interface
	Z6124.000	R70 Ethernet to CAN interface
Amplifiers	Z2760.xxx	10D amplifier²
	Z2770.xxx	30D amplifier²
	Z2700.xxx	D6 amplifier³
	Z2750.xxx	D20 amplifier³
	Z2710.xxx	D80 amplifier³
Processing and distribution	Z4010.000	DS10 Audio network bridge
	Z4100.000	DS100 Signal Engine

¹ SC on request

² The complete list of installation amplifier versions is available in the xD Installation Amplifier and Software brochure

³ The complete list of mobile amplifier versions is available in the D Amplifier and Software brochure

