



Welcome to System Architecture Freedom



Introducing the U-Series

Redefining the next generation of compact multipurpose point-source loudspeakers.

Setting new standards for design, electroacoustical performance, and system architecture freedom, the U-Series is a radical reimagining of what compact multipurpose point-source loudspeakers can achieve.

Elegant for installation and durable for mobile, combined with d&b's expected level of directivity control and efficiency, and a wide range of power, audio, connectivity options, configuration possibilities, and redundancy modes.



One System

The U-Series contains three models with passive (U3, U5, U7) and networked (U3N, U5N, U7N) variants and exhibits a common full-range tonality and low-frequency extension down to 55 Hz (extended full-range mode).

Each loudspeaker features a bipole low-frequency driver arrangement that results in outstanding vertical directivity control starting from 500 Hz for all models and seamlessly hands over to a high-frequency components that includes a tool-free (patented) rotatable high-frequency waveguide-horn assembly that ensures extremely accurate high-frequency dispersion control, increased headroom, reduced distortion, and extraordinary off-axis behavior.

The Passive and Networked variants of each model are physically and acoustically identical and use the same accessories. The difference is how they integrate into a system.



U3 • U3N

61 Hz - 18 kHz

100° x 65° (h x v), rotatable

128 dB



U5 • U5N

58 Hz - 17 kHz

90° x 60° (h x v), rotatable

133 dB



U7 • U7N

55 Hz - 18 kHz

80° x 55° (h x v), rotatable

136 dB

Two Variants. Countless Options

The U-Series Passive

U-Series Passive variants set a new standard in versatility, directivity control, and efficiency. Available in three sizes and optimized for use with d&b's energy-saving 5DM / 5D amplifier, these loudspeakers offer outstanding value with no compromise in performance.

The U-Series Networked

With their pioneering hybrid power (AC/PoE++) and signal (Milan-AVB/ Analog) topology, U-Series Networked variants enable unprecedented system architecture freedom. Alongside d&b's Soundscape technology, the U-Series Networked variants can create entirely new possibilities for immersive sound applications.



System Architecture Freedom

Until now, d&b loudspeaker systems have relied on a four-channel DSP amplifier architecture that is powerful, predictable, and reliable, but also, by definition, predetermined and fixed. The U-Series changes this. You now have the choice between centralized or decentralized electronics across multiple system topologies, from star layouts to daisy chained networks and beyond.

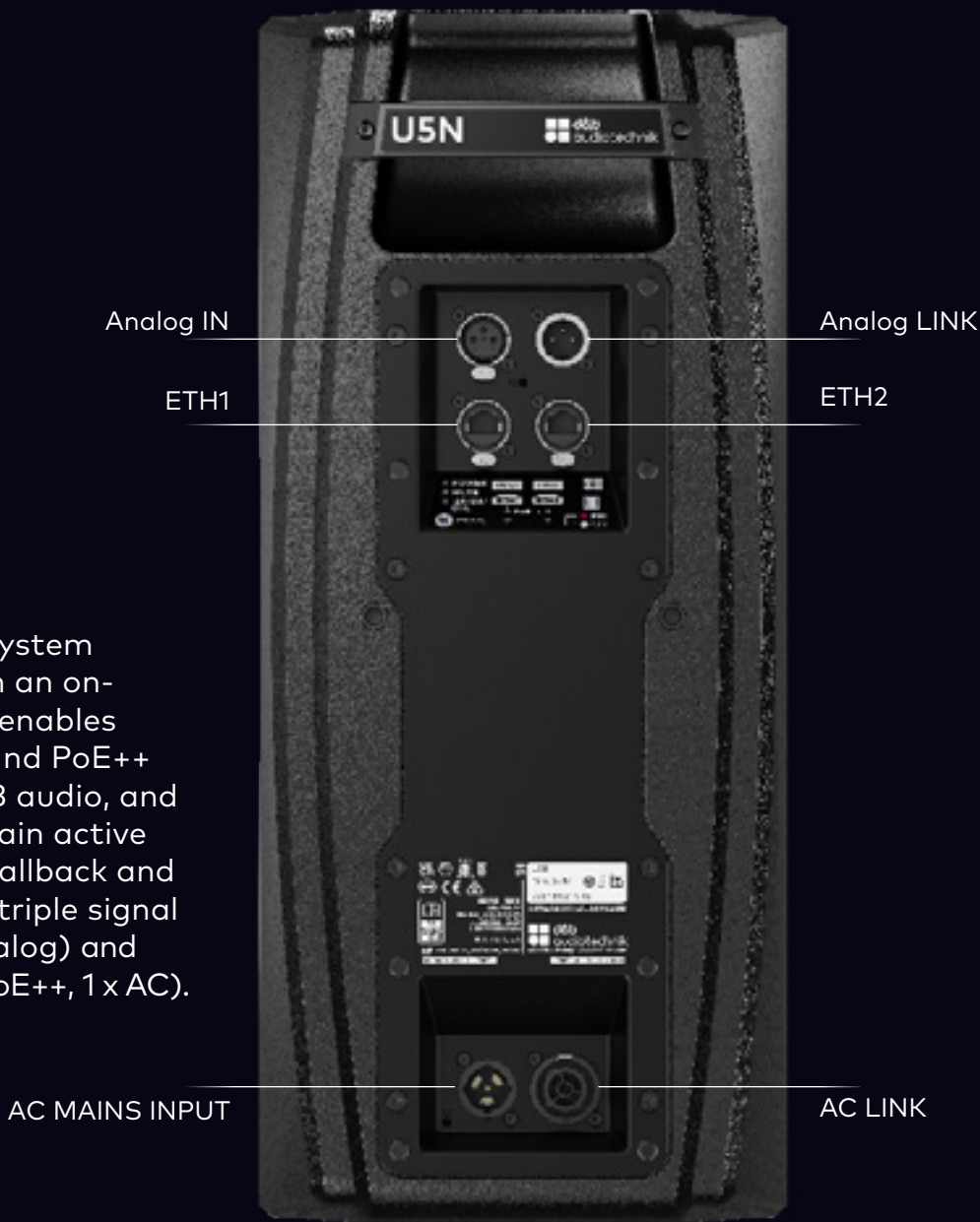
U-Series Passive variants

U3, U5, and U7 follow the standard d&b workflow, using system amplifiers that can power up to three loudspeakers per channel depending on the selected amplifier. This means they can integrate into signal chains via analog or AES/EBU, Milan networks via the DS20 audio network bridge and compatible d&b amplifiers (D25, D40, D90, 5DM, 25D, 40D), or Dante networks via the DS10 audio network bridge and 5D amplifiers.



U-Series Networked variants

U3N, U5N, and U7N expand system architecture possibilities with an on-board amplifier module that enables the simultaneous use of AC and PoE++ power, analog and Milan-AVB audio, and R1 control. All inputs can remain active at the same time, providing fallback and override functions as well as triple signal redundancy (2 x Milan, 1 x analog) and triple power redundancy (2 x PoE++, 1 x AC).

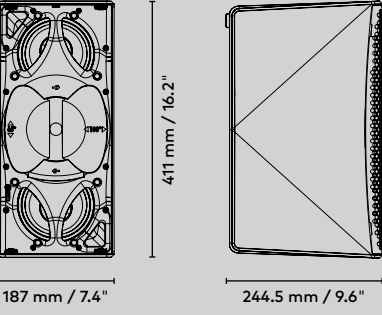


Networked variants can receive signal, control, and power through a single Ethernet cable, made easy with the DN2, d&b's 8-port Ethernet PoE++ AVB Switch. In single-cable operation, U-Series loudspeakers can be deployed in locations where traditional power is not easily accessible while still delivering professional SPL levels and significantly reducing both installation time and infrastructure costs. Analog, network, and AC connections can be daisy-chained to reduce overall cable length, while discrete channel assignment remains available through Milan networked audio.

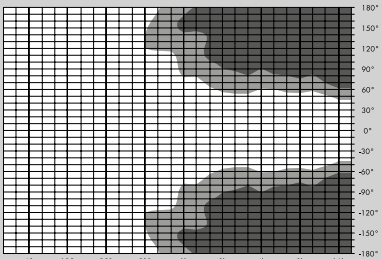
Additional intelligent features such as device identification and horn-rotation reporting in R1 streamline deployment, and the N.Control app uses NFC to configure the loudspeaker while unpowered and unplugged, ideal for simple setups or pre-deployment preparation. From the simplest system architecture, to the most complex. You have the freedom to choose the system architecture right for you.

Welcome to System Architecture Freedom.

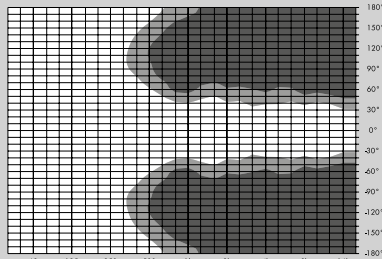
U3 • U3N 2 x 5" + 1 x 0.75" HF



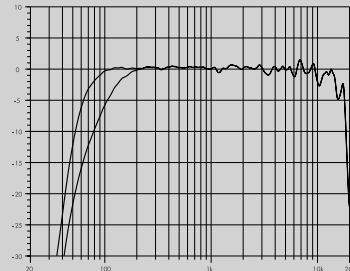
kg U3 7,1 kg
U3N 7,5 kg



Isobar diagram horizontal, standard setup



Isobar diagram vertical, standard setup



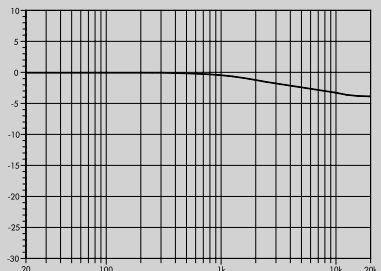
Frequency response, standard and CUT modes

- 61 Hz - 18 kHz (~5 dB standard)
- 105 Hz - 18 kHz (~5 dB CUT mode)
- 52 Hz - 19 kHz (~10 dB standard)
- 80 Hz - 19 kHz (~10 dB CUT mode)
- 55 Hz - 18 kHz (~5 dB @ CPL: +3 dB)
Extended full-range mode

Controller Settings

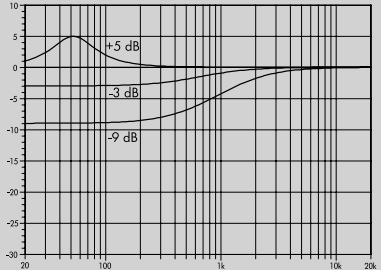
CUT mode

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



HFA mode

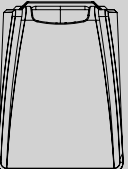
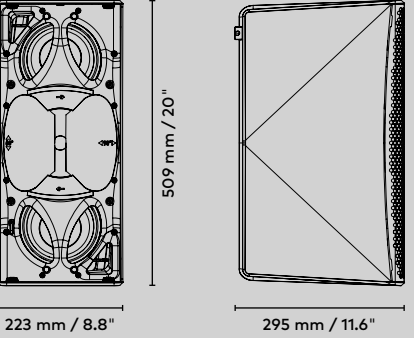
In HFA mode (High Frequency Attenuation), the HF response of the system is rolled off and provides a natural, balanced frequency response when a cabinet is placed close to listeners in near field or delay use



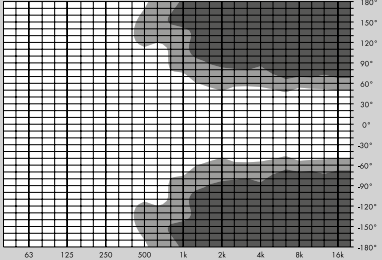
CPL function

The CPL (Coupling) function compensates for coupling effects between the cabinet and close boundary surfaces. CPL begins gradually around 1 kHz, with the maximum attenuation below 400 Hz. To achieve a balanced frequency response, the CPL function can be set to dB attenuation values between 0 and -9

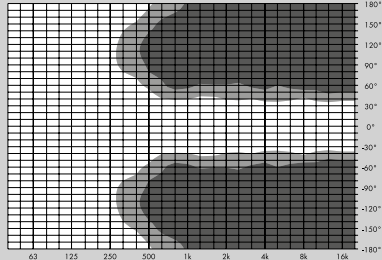
U5 • U5N 2 x 6.5" + 1 x 1" HF



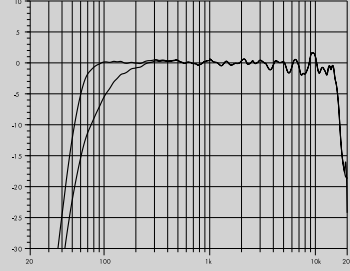
kg U5 11,5 kg
U5N 12 kg



Isobar diagram horizontal, standard setup



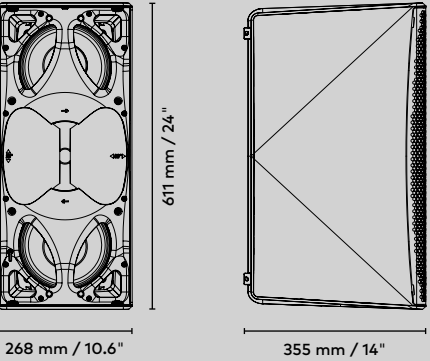
Isobar diagram vertical, standard setup



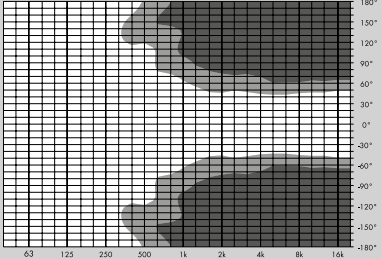
Frequency response, standard and CUT modes

- 58 Hz - 17 kHz (~5 dB standard)
- 105 Hz - 17 kHz (~5 dB CUT mode)
- 52 Hz - 18 kHz (~10 dB standard)
- 75 Hz - 18 kHz (~10 dB CUT mode)
- 55 Hz - 17 kHz (~5 dB @ CPL: +2 dB)
Extended full-range mode

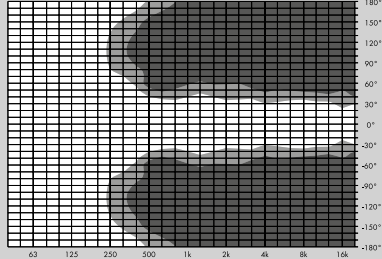
U7 • U7N 2 x 8" + 1 x 1.26" HF



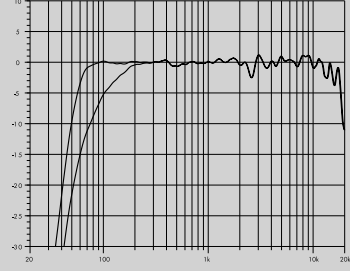
kg U7 19,2 kg
U7N 19,4 kg



Isobar diagram horizontal, standard setup



Isobar diagram vertical, standard setup



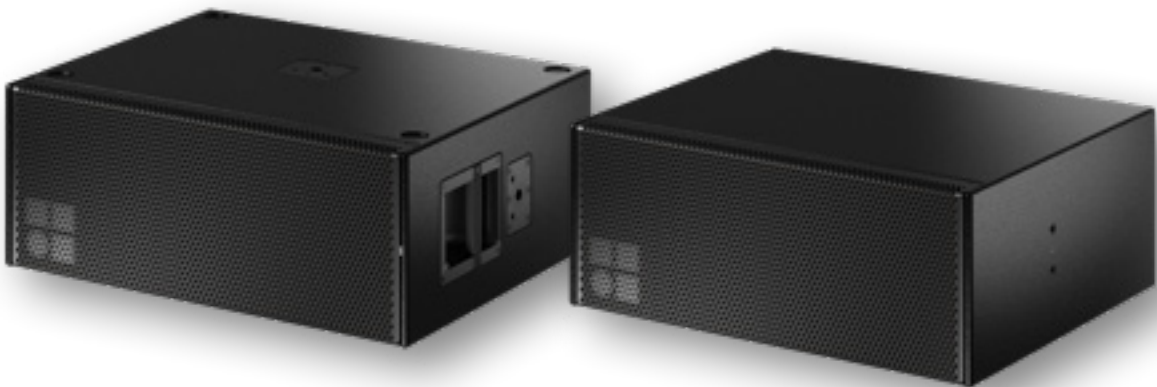
Frequency response, standard and CUT modes

- 55 Hz - 18 kHz (~5 dB standard)
- 105 Hz - 18 kHz (~5 dB CUT mode)
- 50 Hz - 20 kHz (~10 dB standard)
- 75 Hz - 20 kHz (~10 dB CUT mode)

Subwoofers

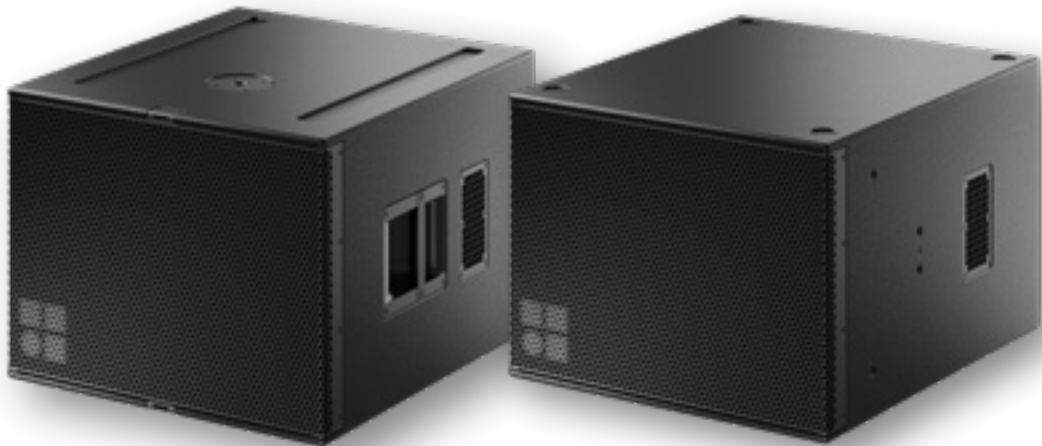
B10 subwoofers

The compact, multipurpose subwoofers B10-SUB and B10N-SUB, and their installation-specific equivalents Bi10-SUB and Bi10N-SUB, optimally pair with the U-Series. The subwoofers feature dual high-performance drivers, housed in a bass-reflex cabinet with a new, sophisticated port design. The versatile form factor makes these subwoofers an ideal solution for small-footprint applications or low ceiling scenarios. Based on the same technology as the U-Series Networked variants, the B10N-SUB and Bi10N-SUB provide all hybrid-topology advantages, expanding system architecture freedom for high-impact low-end extension. The highly efficient subwoofer design of the B10-SUB and Bi10-SUB models allows them to achieve excellent performance with 5DM / 5D amplifiers.



B12 subwoofers

The compact, cardioid subwoofer B12-SUB and its installation-specific equivalent Bi12-SUB, reinforce the U-Series with powerful low-frequency extension and precise directivity control. The subwoofers feature an integrated cardioid setup consisting of a forward-facing bass-reflex design and a rear-facing 2-chamber bandpass design, providing a cardioid dispersion pattern using a single amplifier channel.



B10 • Bi10

2 x 10" driver

omnidirectional dispersion

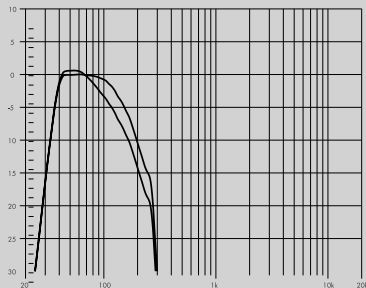
38 - 150 Hz Frequency response

SPL max 130 dB

6 ohms

500/1200 W (RMS/peak 10 ms)

27 kg



B10(N) • Bi10(N) frequency response, standard and CUT modes

- 38 Hz - 150 Hz (-5 dB standard)
- 38 Hz - 115 Hz (-5 dB CUT mode)
- 34 Hz - 200 Hz (-10 dB standard)
- 34 Hz - 160 Hz (-10 dB CUT mode)

B12

1 x 15" driver front / 1 x 10" driver rear

cardioid dispersion

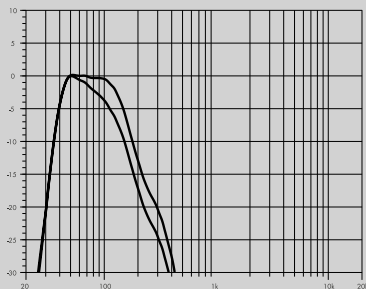
39 - 150 Hz Frequency response

SPL max 132 dB

10 ohms

500/1200 W (RMS/peak 10 ms)

42,5 kg



B12 • Bi12 frequency response, standard and CUT modes

- 39 Hz - 150 Hz (-5 dB standard)
- 39 Hz - 100 Hz (-5 dB CUT mode)
- 35 Hz - 180 Hz (-10 dB standard)
- 35 Hz - 140 Hz (-10 dB CUT mode)

B10N • Bi10N

2 x 10" driver

omnidirectional dispersion

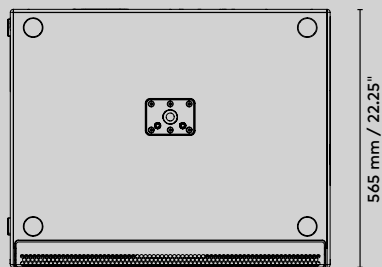
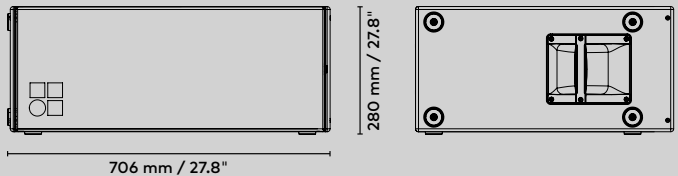
38 - 150 Hz Frequency response

SPL max 130 dB

6 ohms

500/1200 W (RMS/peak 10 ms)

28,5 kg



Bi12

1 x 15" driver front / 1 x 10" driver rear

cardioid dispersion

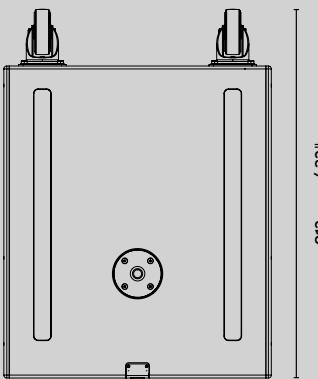
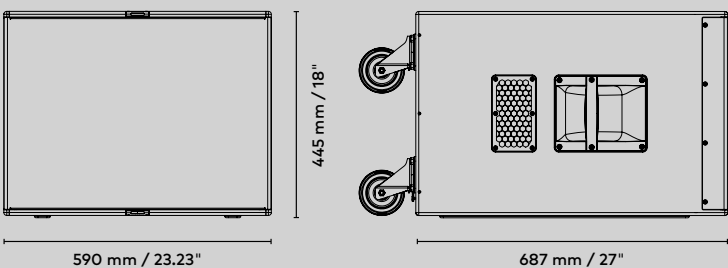
39 - 150 Hz Frequency response

SPL max 132 dB

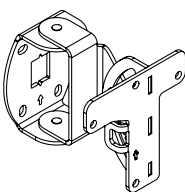
10 ohms

500/1200 W (RMS/peak 10 ms)

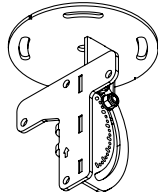
41,5 kg



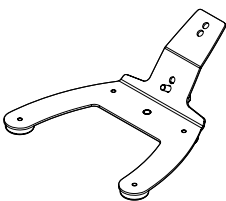
Accessories



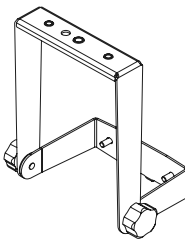
Z5810
Wall mount



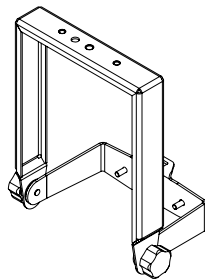
Z5811
Ceiling mount



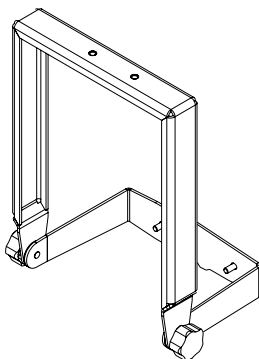
Z5809¹
U-Series Floor stand



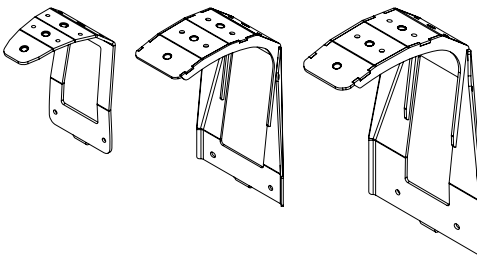
Z5800
Swivel bracket for
U3 and U3N



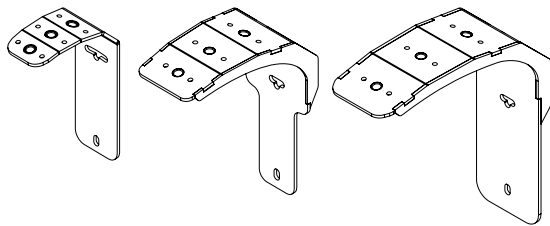
Z5803
Swivel bracket for
U5 and U5N



Z5806
Swivel bracket for
U7 and U7N



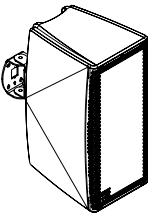
Z5801 • Z5804 • Z5807
Vertical bracket



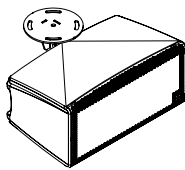
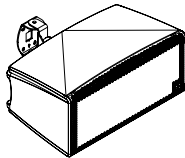
Z5802 • Z5805 • Z5808
Horizontal bracket

¹only for use with U3, U3N, U5 and U5N

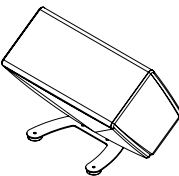
Mounting Examples



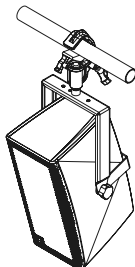
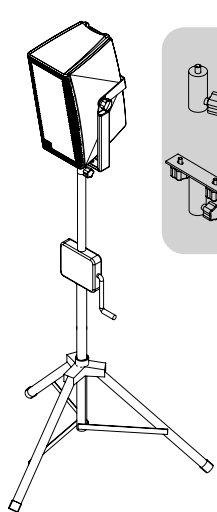
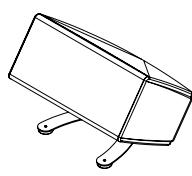
Wall mount
configuration example



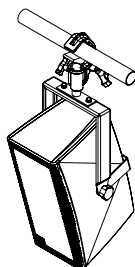
Ceiling mount
configuration example



Floor stand
configuration example

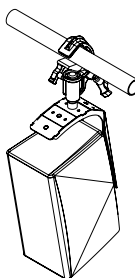
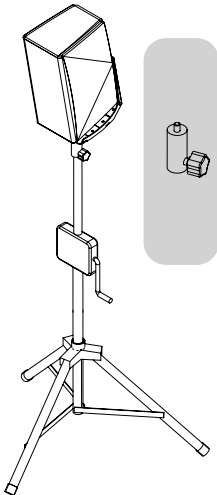


**Swivel bracket
for pipe mount**
with Z5029 TV spigot M10
and Z5012 Pipe clamp

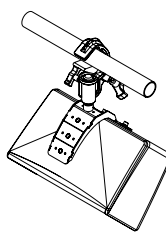


**Swivel bracket
for pipe mount**
with Z5029 TV spigot with fixing
plate and Z5012 Pipe clamp

Swivel bracket for tripod mount
with Z5034 Loudspeaker stand adapter M10
and Z5024 Loudspeaker stand adapter



Vertical and Horizontal bracket for pipe mount
with Z5029 TV spigot M10 and Z5012 Pipe clamp



Vertical bracket for tripod mount
with Z5034 Loudspeaker stand adapter M10

DS22 Audio Network Bridge



DN2 Ethernet PoE++ Switch



DS1 USB-Milan Interface



Networking

DN2 Ethernet PoE++ Switch

The Milan-AVB PoE++ switch for U-Series networked loudspeakers

- Simultaneous single-cable operation with up to 90 W via PoE++ at all 8 ports
- Supports Milan-AVB, Dante®, AES67, AES70/OCA, and IP traffic
- Monitor and set IP address and Remote ID with R1 Remote control software

DS22 Audio network bridge

The d&b system interface for AES3 and analog to Milan-AVB

- 16 inputs of AES3 digital audio channels, 4 of which can be switched to analog
- 1 RU device with Milan-AVB-enabled integrated 5-port switch, with 3 primary and 2 secondary network sockets
- Choose from the following input options: 16 x AES3, 14 x AES3 and 2 x analog, or 12 x AES3 and 4 x analog
- 2 Milan talker streams, with 8 channels per stream

DS1 USB-Milan Interface

The compact, plug-and-play, class-compliant audio interface for Mac / PC audio to Milan-AVB network via USB-C

- Dual etherCON connectors and screw-secured USB connection
- 2 Milan Talker and 2 Listener streams with 8 channels each
- Allows playback and multitrack recording up to 96 kHz
- R1 Remote, OCA/AES70, Dante compatible
- USB-C powered

Amplification

5D and 5DM Amplifier

The compact, Dante- or Milan-enabled 4-channel installation amplifiers designed for simple installed applications

- 4 output channels with clever power sharing for maximum flexibility in a small 1RU x 9.5" format
- 4 analog inputs and 2 Milan streams, each with 8 channels or 4 Dante inputs, assignable to any output
- 5DM / 5D Power share calculator to maximize system efficiency
- Speaker presets for U-, T-, xS-, and xC-Series loudspeakers, subwoofers, and more

D25 Amplifier

The comprehensive, 4-channel, Milan-enabled system amplifier optimized for medium output systems

- Part of the Dy system amplifier series with the same comprehensive DSP, IO, and control features as the D40 and D90
- 8 Milan audio inputs, 4 analog inputs, and 4 AES3 channels with fallback and override functionality for system resilience
- Onboard enhanced energy saving features, power efficiency, and Automatic Wake up
- Installation variant 25D with alternate control and IO options
- Speaker presets for U-, CL-, Y-, T-, xS-, and xC-Series loudspeakers, subwoofers, monitors, and more

5D Amplifier



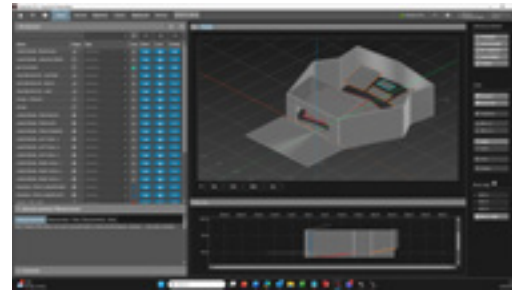
5DM Amplifier



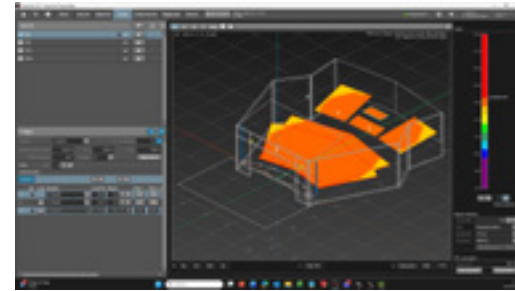
D25 Amplifier



From Planning



ArrayCalc Venue view



ArrayCalc 3D plot view

To Operation



R1 Configuration view



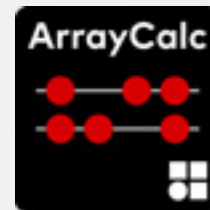
R1 Tuning view

Application

Gather application information including program material, audience profile, architectural details, network requirements, and production constraints. Evaluate this data and import it into ArrayCalc.

ArrayCalc Exchange

- d&b ArrayCalc Exchange is a SketchUp extension that allows users to convert CAD and EASE files into an ArrayCalc venue file (*.dbacv) for direct import into ArrayCalc



Design

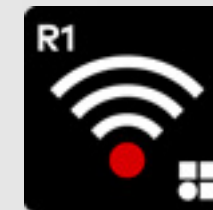
Build the venue model, design the system, and verify that it meets all performance requirements. Plan system devices and patching.

d&b ArrayCalc

- A comprehensive toolbox for system design, acoustic prediction, alignment, rigging, and device planning.

HeadroomCalc

- Import any audio file to simulate system headroom and resulting SPL over time
- Time-domain processing allows accurately modeled system dynamics, including limiter activity and gain reduction over time
- Verify compliance with sound-level regulations and optimize system design for headroom and efficiency using predictable real-world behavior



Set up

Set up, check, and verify your system to ensure it is performance-ready. Apply any required fine-tuning on site, then control and monitor the system from anywhere on the network.

d&b R1 Remote Control

- Remotely control d&b devices via Ethernet networks
- Verify amplifiers are connected to the correct loudspeakers, in the correct order, using System Check and Array Verification
- Create snapshots and system configurations for different performance scenarios
- Configure GPIO settings and amplifier presets for third-party control

d&b N.Control App

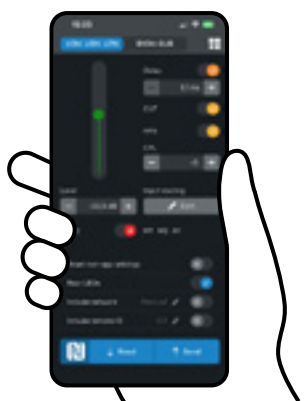
- Configure U-Series Networked loudspeakers via NFC using a smartphone or tablet and the d&b N.Control app

Networking

- Configure and manage Milan or Dante networks using Milan Manager or Dante Controller

d&b ArrayCalc Viewer

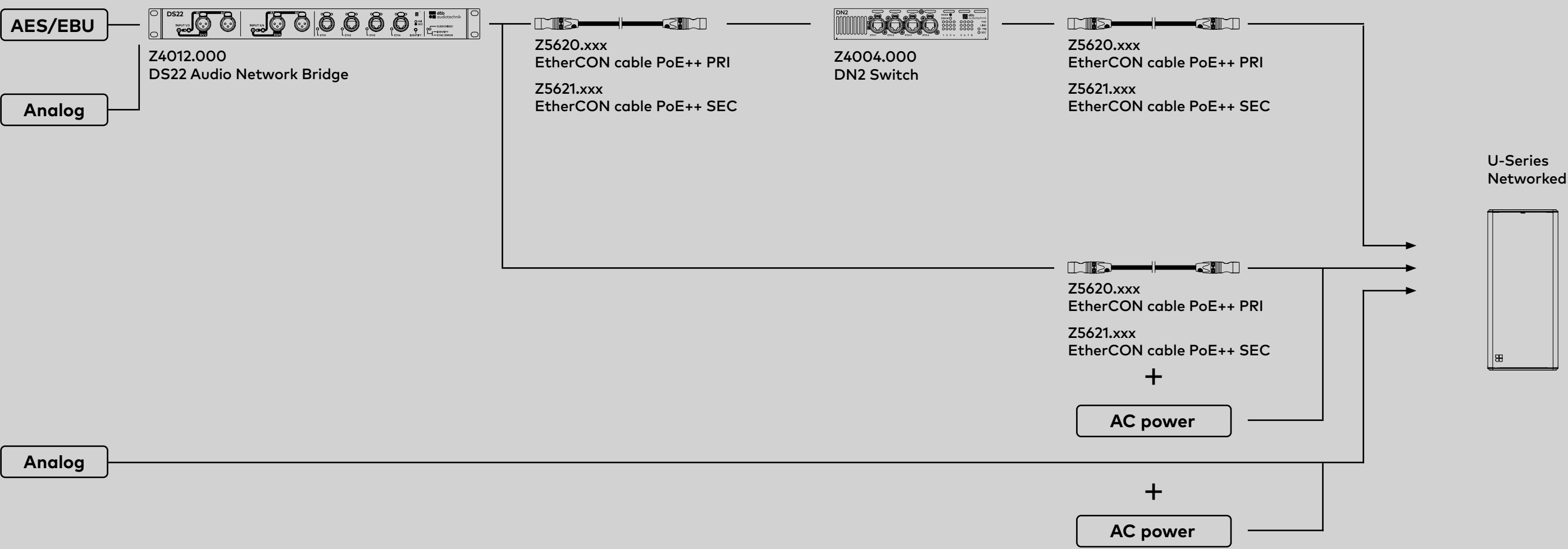
- Share ArrayCalc files to any iOS or Android device and the ArrayCalc Viewer app will display rigging information such as pick points, splay angles, array heights, aiming, and weight, along with device and cabling information



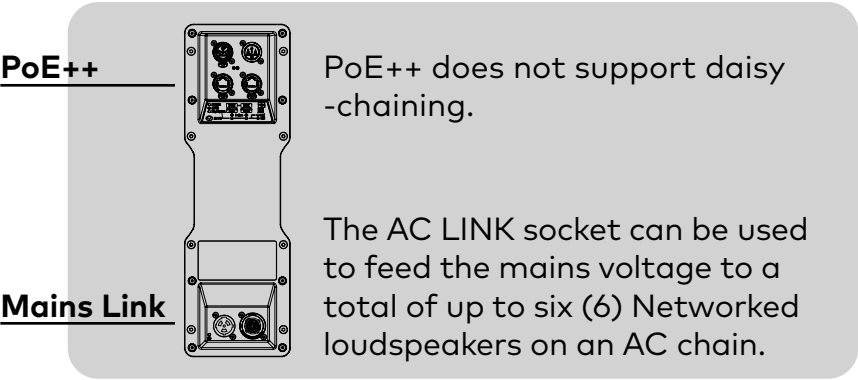
d&b N.Control App



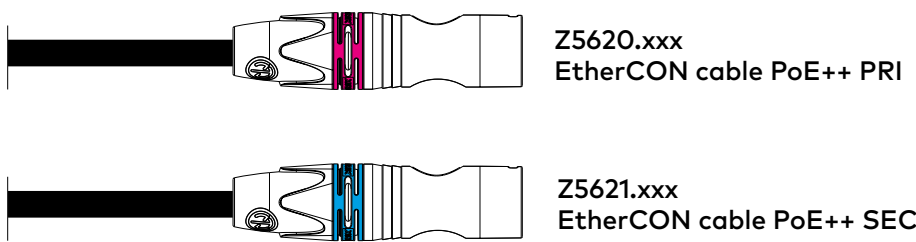
Cabling U-Series Networked Variants



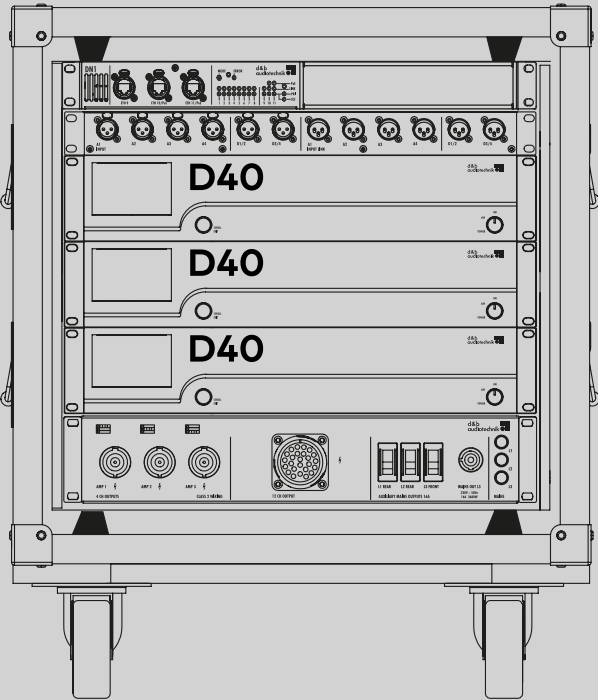
Power Supply and Link Through



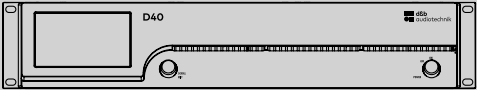
Milan Cable Standards



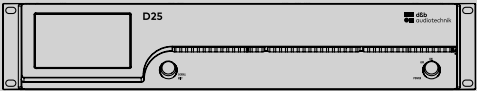
Cabling U-Series Passive Variants



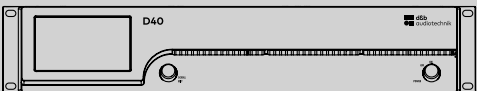
Z5600.xxx
3 x D40 Rack



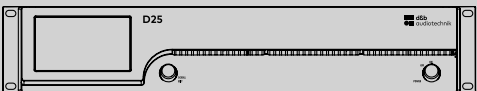
Z2850.xxx
D40 Amplifier



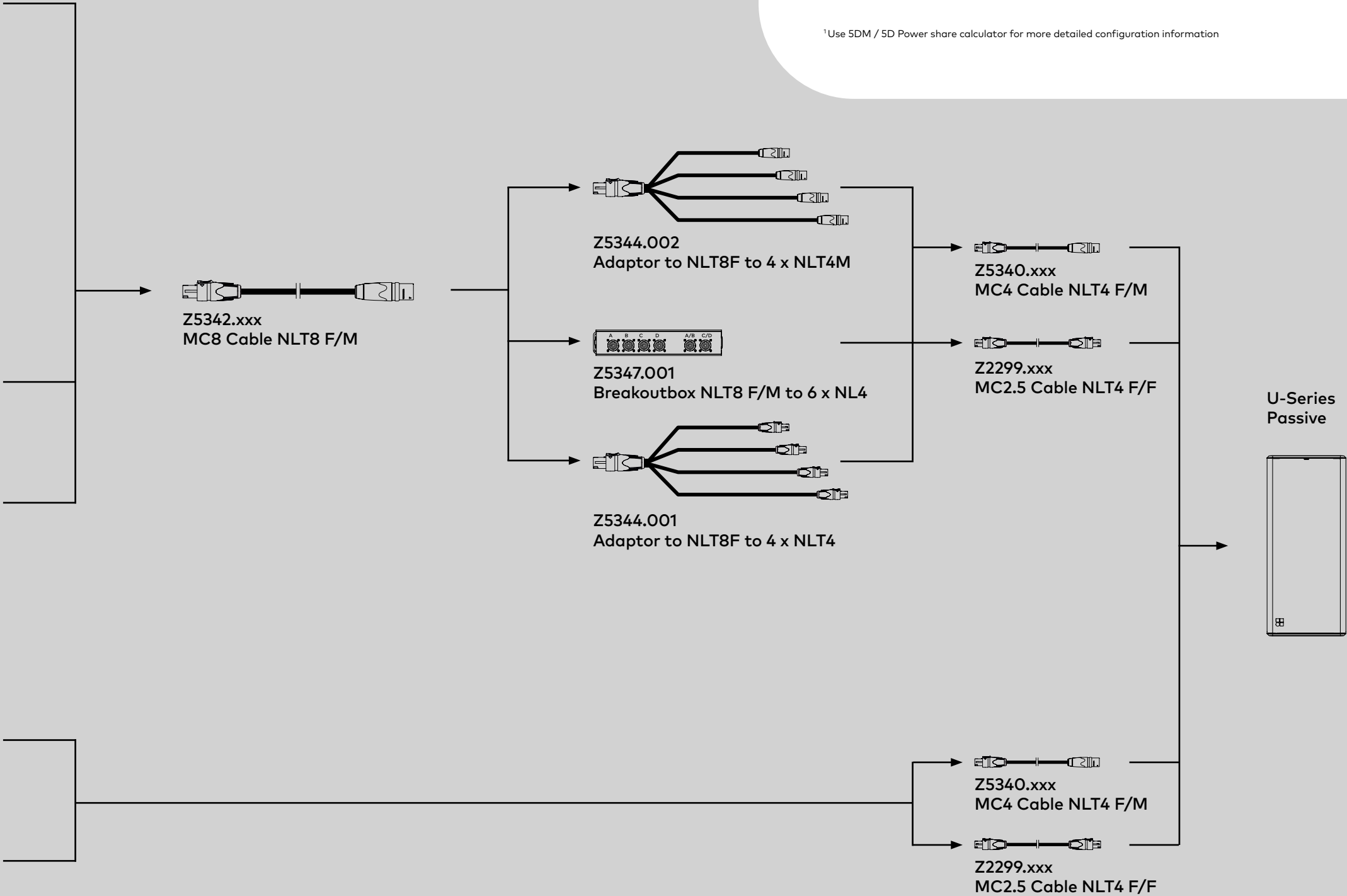
Z2820.xxx
D25 Amplifier



Z2850.xxx
D40 Amplifier



Z2820.xxx
D25 Amplifier

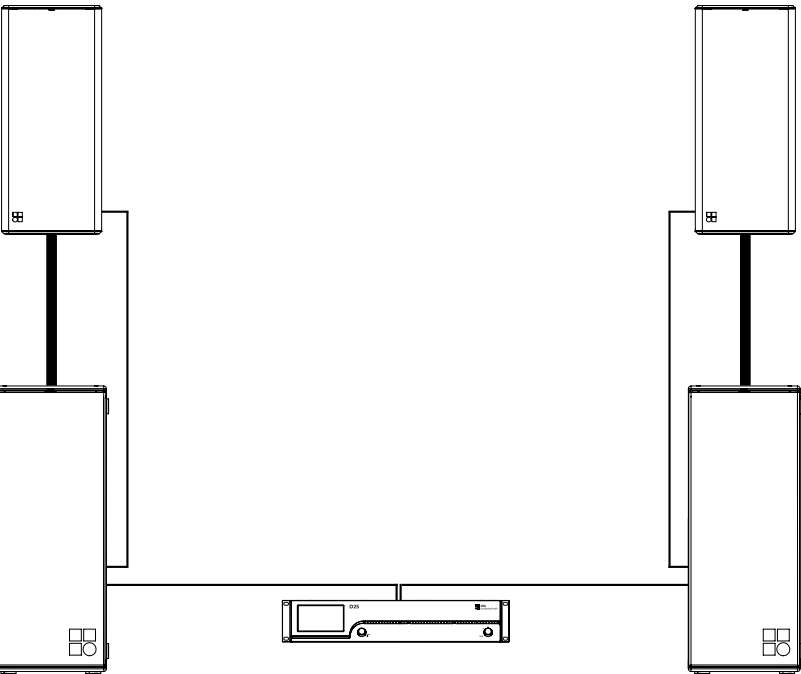


Amplifier Settings

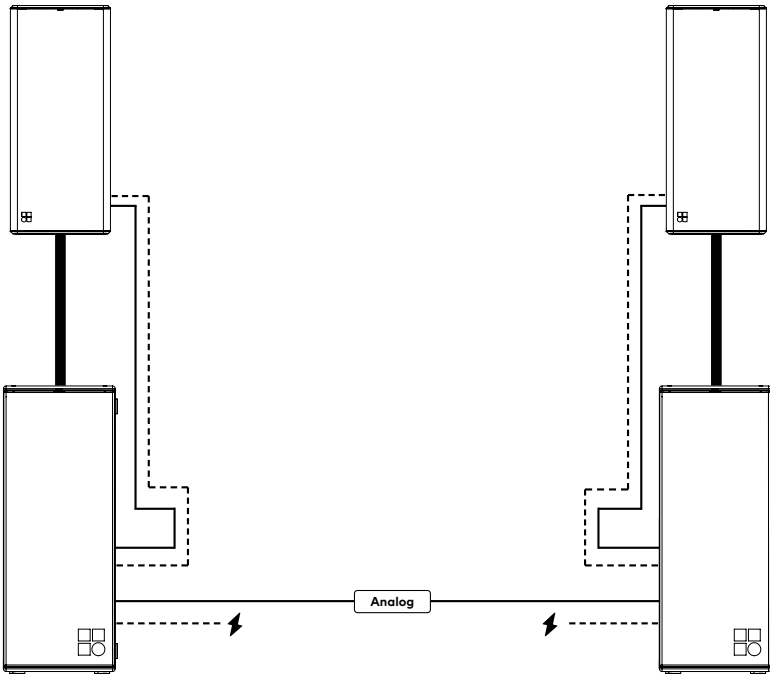
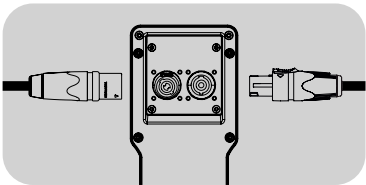
max number of loudspeakers per channel for safe operation	U3	U5	U7	B10-SUB	Bi10-SUB
5DM · 5D ¹	2	1	1	1	1
10D	3	2	2	2	2
D25 / 25D	3	2	2	2	2
D40 / 40D	3	2	2	2	2
D80	3	2	2	2	2
D90	3	2	2	2	2

¹Use 5DM / 5D Power share calculator for more detailed configuration information

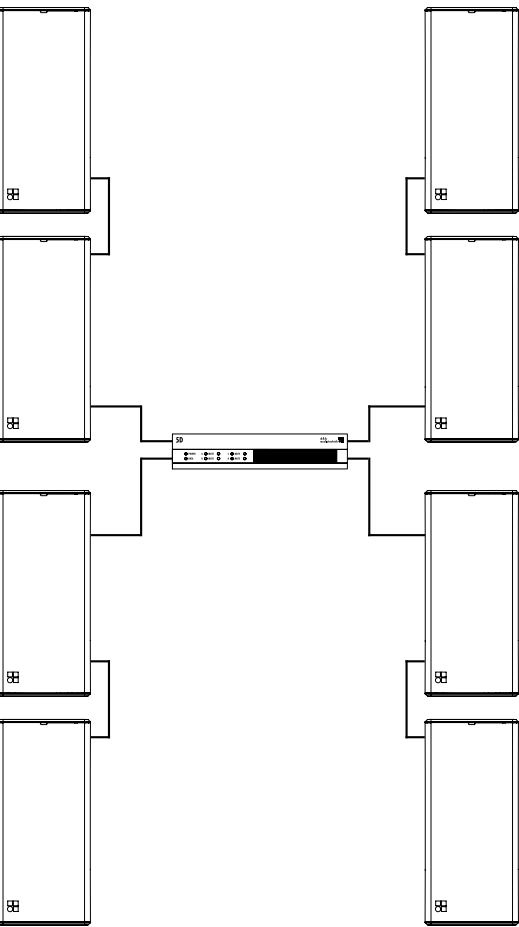
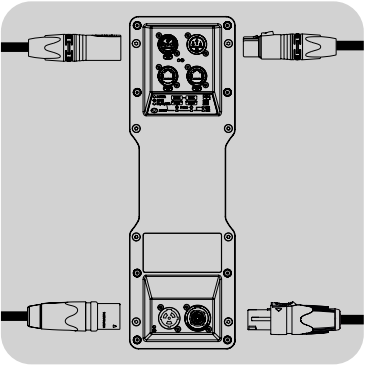
U-Series Configuration Examples



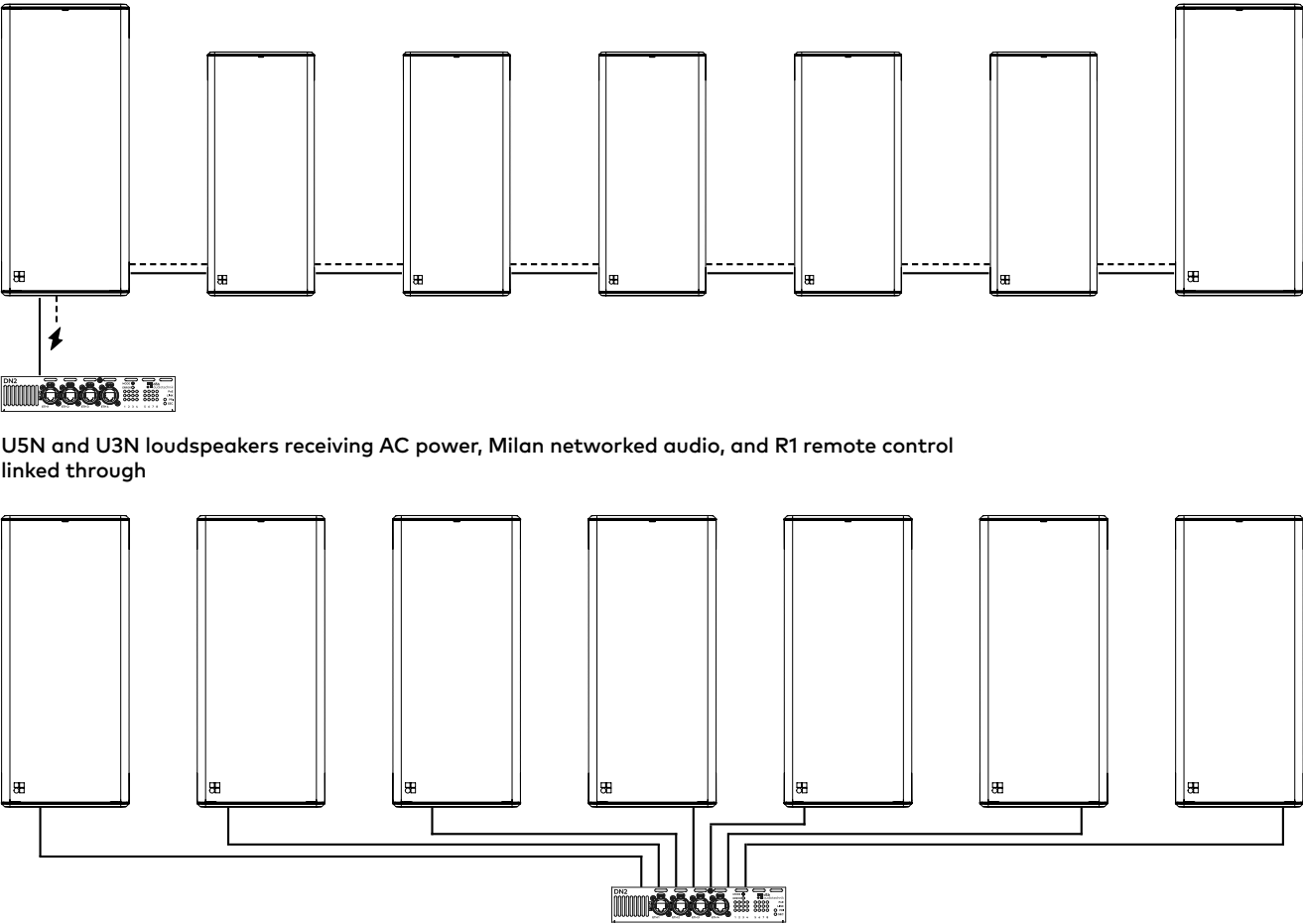
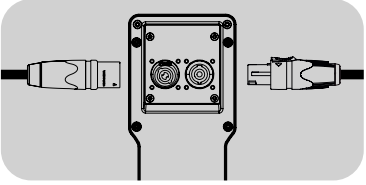
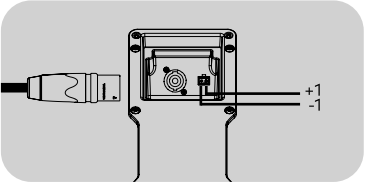
D25 Amplifier in Mix TOP/SUB mode with U5 and B10 loudspeakers



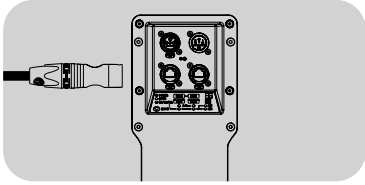
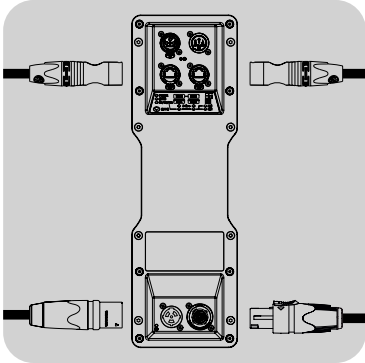
U5N and B10N-SUB loudspeakers receiving AC power and analog signal linked through



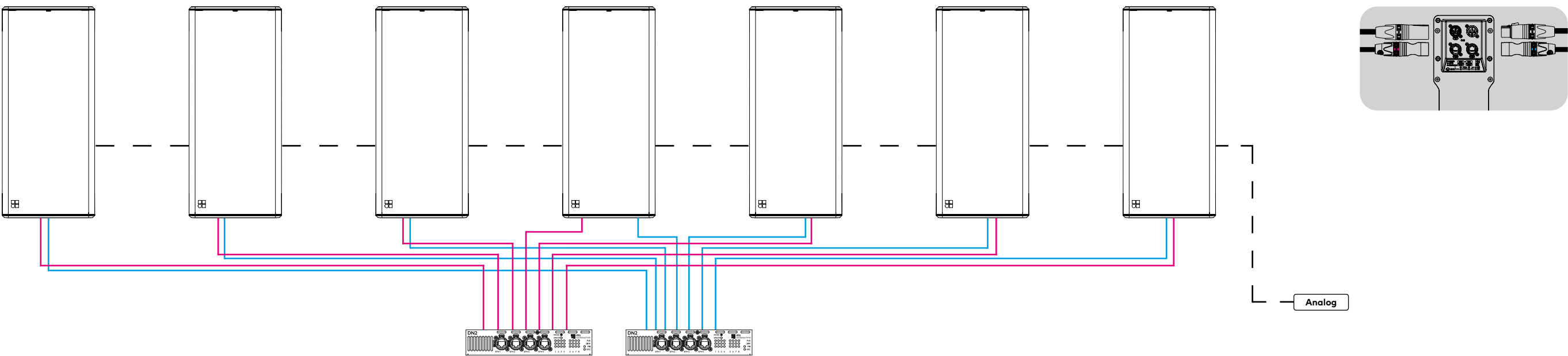
5D amplifier in Dual Channel mode with U3 loudspeakers linked



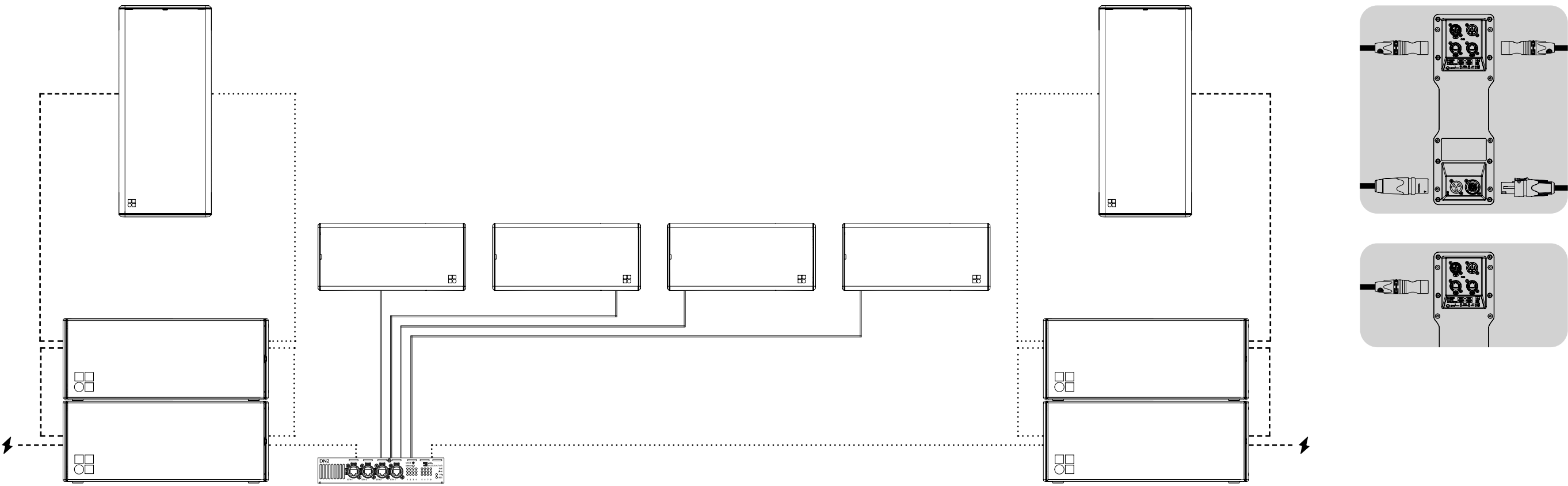
U7N loudspeakers receiving PoE++ power, Milan network audio, and R1 remote control via DN2 network switch



U-Series configuration examples



U7N loudspeakers receiving dual redundant PoE++ power and Milan network audio via 2 x DN2 network switches, primary R1 remote control, and analog fallback/override signal linked through



U7N and B10iN-SUB loudspeakers receiving AC power, Milan network audio, and R1 remote control linked through with U3N loudspeakers receiving PoE++ power, Milan network audio, and R1 remote control via DN2 network switch

Product Overview

Loudspeakers networked	U3N Loudspeaker	Z2005.000	Cases	U-Series Wall mount white	Z5810.001
	U3N Loudspeaker white	Z2005.001		U-Series Ceiling mount	Z5811.000
	U5N Loudspeaker	Z2010.000		U-Series Ceiling mount white	Z5811.001
	U5N Loudspeaker white	Z2010.001		Bi10-SUB Horizontal bracket	Z5815.000
	U7N Loudspeaker	Z2015.000		Bi10-SUB Horizontal bracket white	Z5815.001
	U7N Loudspeaker white	Z2015.001		B10-SUB Flying adapter	Z5817.000
	B10N-SUB Subwoofer	Z2025.000		Bi10-SUB Flying adapter white	Z5817.001
	Bi10N-SUB Subwoofer	Z2026.000		B10-SUB Base plate	Z5816.000
	Bi10N-SUB Subwoofer white	Z2026.001			
Loudspeakers passive	U3 Loudspeaker	Z1005.000	Signal distribution	Touring case 2 x U3	E7830.000
	U3 Loudspeaker white	Z1005.001		Touring case 4 x U3	E7831.000
	U3 Loudspeaker NLT4 F/M	Z1005.002		Touring case 2 x U5	E7832.000
	U3 Loudspeaker NLT4 F/M white	Z1005.003		Touring case 2 x U7	E7833.000
	U5 Loudspeaker	Z1010.000		B10-SUB Wheelboard	E7835.000
	U5 Loudspeaker white	Z1010.001	Network cables	B10-SUB Cover	E7836.000
	U5 Loudspeaker NLT4 F/M	Z1010.002		DS1 USB Milan interface	Z4020.000
	U5 Loudspeaker NLT4 F/M white	Z1010.003		DS22 Milan audio bridge	Z4012.000
	U7 Loudspeaker	Z1015.000	Connector accessories	DN2 Milan-AVB PoE++ switch	Z4004.000
	U7 Loudspeaker white	Z1015.001			
	U7 Loudspeaker NLT4 F/M	Z1015.002	Amplifier	EtherCON cable PoE++ PRI	Z5620.xxx ¹
	U7 Loudspeaker NLT4 F/M white	Z1015.003		EtherCON cable PoE++ SEC	Z5621.xxx ¹
	B10-SUB Subwoofer NLT4F/M	Z2020.002	Amplifier racks	U-Series NLT4 F/M Connector panel	Z1030.000
	Bi10-SUB Subwoofer	Z2021.000		U-Series cable gland	Z1031.000
	Bi10-SUB Subwoofer white	Z2021.001	Cables		
Rigging and mounting	U3 Swivel bracket	Z5800.000		D25 amplifier	Z2820.xxx
	U3 Swivel bracket white	Z5800.001		D40 amplifier	Z2850.xxx
	U3 Vertical bracket	Z5801.000		D90 amplifier	Z2860.xxx
	U3 Vertical bracket white	Z5801.001		5DM amplifier	Z2885.xxx
	U3 Horizontal bracket	Z5802.000		5D amplifier	Z2880.xxx
	U3 Horizontal bracket white	Z5802.001		25D amplifier	Z2810.xxx
	U5 Swivel bracket	Z5803.000		40D amplifier	Z2830.xxx
	U5 Swivel bracket white	Z5803.001			
	U5 Vertical bracket	Z5804.000			
	U5 Vertical bracket white	Z5804.001			
	U5 Horizontal bracket	Z5805.000			
	U5 Horizontal bracket white	Z5805.001			
	U7 Swivel bracket	Z5806.000			
	U7 Swivel bracket white	Z5806.001			
	U7 Vertical bracket	Z5807.000			
	U7 Vertical bracket white	Z5807.001			
	U7 Horizontal bracket	Z5808.000			
	U7 Horizontal bracket white	Z5808.001			
	U-Series Floor stand	Z5809.000			
	U-Series Floor stand white	Z5809.001			
	U-Series Wall mount	Z5810.000			

¹ available in 2, 5, 10, 20 and 30 m

