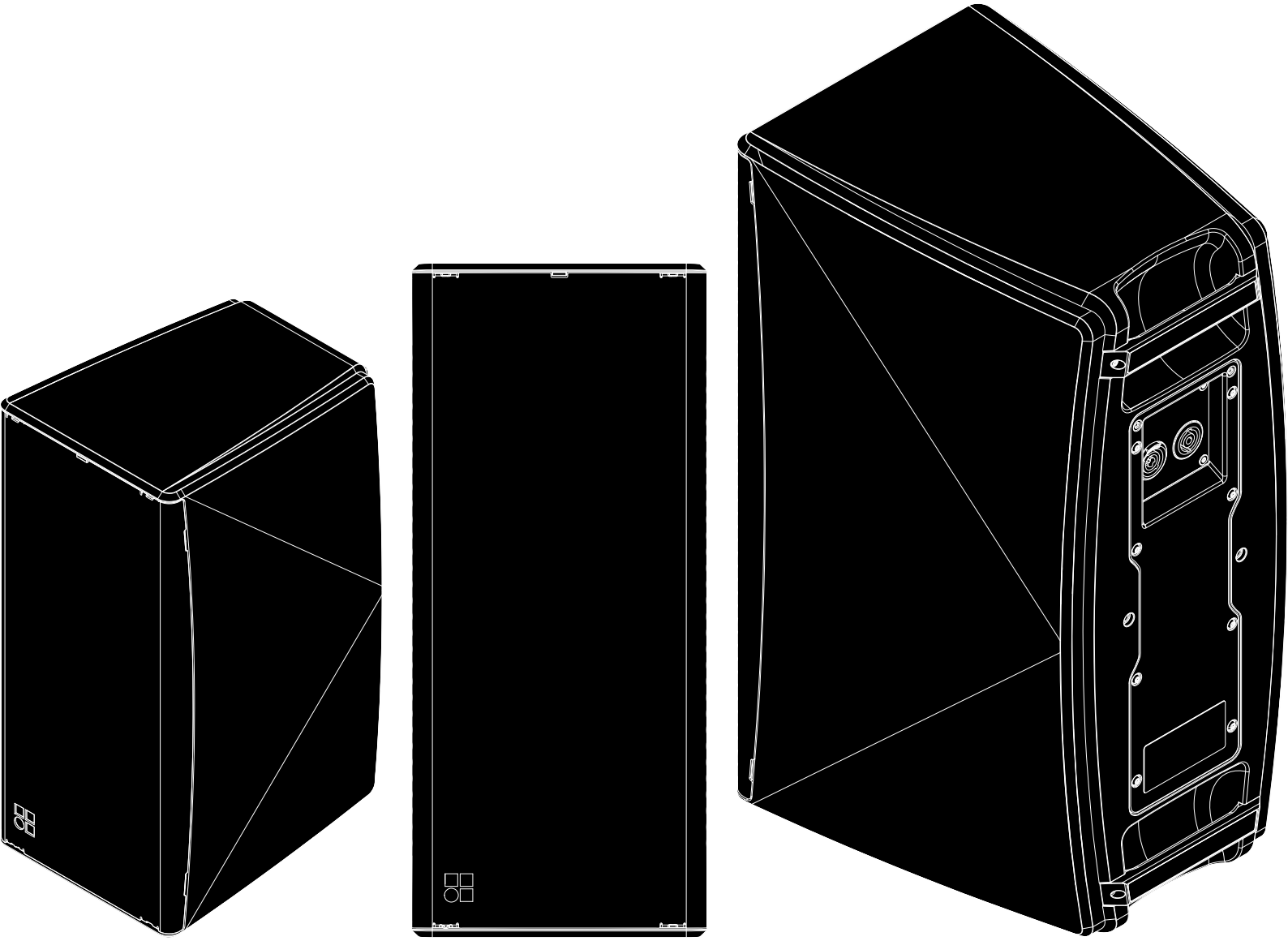
U

U3/U5/U7
Manual 1.2 en



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Notes on document version
Version 1.2:
Revised edition with newly structured amplifier specification.

Refer to:
⇒ Chapter 2.1 “Intended use” on page 5
and
⇒ Chapter 2.5 “Technical specifications” on page 11.

General information

U3/U5/U7 Manual

Version: 1.2 en, 02/2026, D2790.EN .01

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Potential risk of personal injury

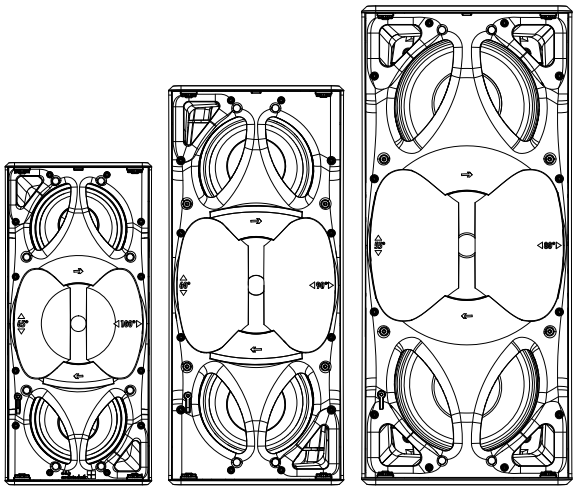
Never stand in the immediate vicinity of loudspeakers driven at a high level. Professional loudspeaker systems are capable of causing a sound pressure level detrimental to human health. Seemingly non-critical sound levels (from approx. 95 dB SPL) can cause hearing damage if people are exposed to it over a long period.

In order to prevent accidents when deploying loudspeakers on the ground or when flown, please take note of the following:

- When setting up the loudspeakers or loudspeaker stands, make sure they are standing on a firm surface. If you place several systems on top of one another, use straps to secure them against movement.
- Only use accessories which have been tested and approved by d&b for assembly and deployment. Pay attention to the correct application and maximum load capacity of the accessories as detailed in our specific "Mounting instructions" or in our "Rigging manuals".
- Ensure that all additional hardware, fixings and fasteners used for deployment are of an appropriate size and load safety factor. Pay attention to the manufacturers' instructions and to the relevant safety guidelines.
- Regularly check the loudspeaker housings and accessories for visible signs of wear and tear, and replace them when necessary.
- Regularly check all load bearing mounting devices.

Potential risk of material damage

Loudspeakers produce a static magnetic field even if they are not connected or are not in use. Therefore make sure when erecting and transporting loudspeakers that they are nowhere near equipment and objects which may be impaired or damaged by an external magnetic field. Generally speaking, a distance of 0.5 m (1.5 ft) from magnetic data carriers (floppy disks, audio and video tapes, bank cards, etc.) is sufficient.



2.1 Intended use

The U-Series U3, U5 and U7 loudspeakers form a family of compact, high-performance loudspeakers covering a wide range of typical point-source applications. They are designed and intended for either mobile and fixed installation purposes.

NOTICE!

Only operate d&b loudspeakers with correctly configured d&b amplifiers, otherwise there is a risk of damaging the loudspeaker components and the directional characteristics of the system cannot be achieved.

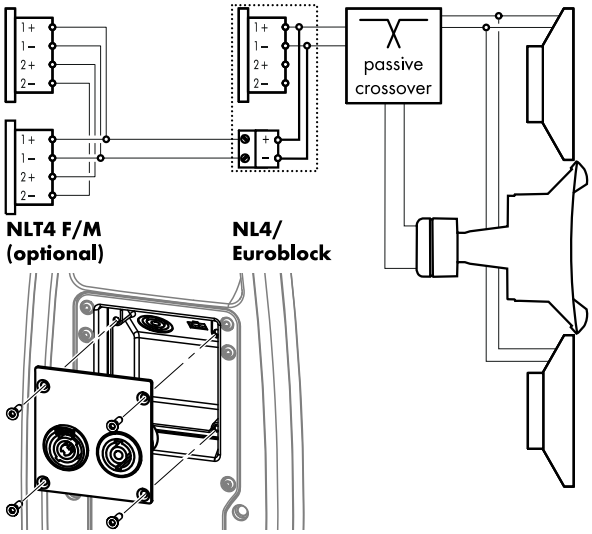
Recommended amplifiers
D25/D40/D80/D90/5D/25D/40D

All cabinets house two neodymium LF drivers in a bass-reflex design and one HF driver mounted on a rotatable CD horn thus providing rotatable dispersion characteristics without the need for any tools.

The cabinets are two-way designs with built-in passive crossover networks and can be used as stand-alone systems or supplemented by applicable d&b subwoofers such as the B10-SUB.

The two LF drivers are positioned in a bipolar arrangement providing vertical dispersion control even at lower frequencies. Specially designed ports with optimized flow characteristics provide efficient low frequency reproduction.

The cabinet enclosures are injection molded with an impact resistant paint finish and made of highly durable partially recycled ABS. The front panels of the cabinets incorporate a rigid metal grill backed by an acoustically transparent and water repellent fabric. Each rear panel incorporates handles while two M8 threaded inserts allow for the attachment of various mounting accessories.



Connector wiring (Shown with NLT4 F/M option)

2.2 Connections

As a standard, the cabinets are fitted with an NL4 M connector socket using the pin assignment 1+/1–. In addition, a 2-pin Euroblock connector is wired in parallel.

NLT4 F/M option

In addition, an NLT4 F/M connector panel can be attached as an option.

All four pins of both connectors are wired in parallel.
The cabinets use the pin assignments 1+/1–. Pins 2+/2– are designated for applicable d&b subwoofers.
Using one connector as the input, the second connector allows for direct connection to a second cabinet.

2.3 Operation

Amplifier output mode(s): Dual Channel or Mix TOP/SUB		
Application	**Setup**	**Cabinets per channel**
U3	U3	3*
U5	U5	2*
U7	U7	2*

***Note:** With d&b 5D amplifiers, please use the «Power share calculator» to determine linking options.

2.3.1 Controller settings

For acoustic adjustment, the functions CUT, HFA and CPL can be selected.

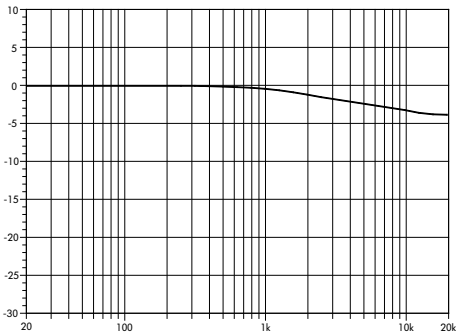
CUT mode

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. HFA provides a natural, balanced frequency response when a cabinet 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.



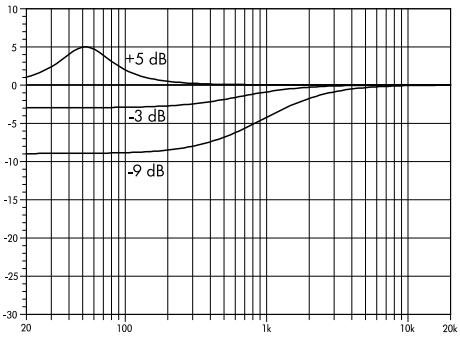
Frequency response correction in HFA mode*

*schematic diagram

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.

In situations where the system is operated without subwoofers and at lower levels, positive CPL values (0 to +5 dB) can be used to increase its low frequency output.



Frequency response correction of the CPL function

Extended full-range mode

The CPL boost functionality can also be used to achieve a consistent low-frequency extension among the U3, U5, and U7 loudspeakers.

The following CPL settings for U3 and U5 cabinets result in a lower corner frequency of 55 Hz for all cabinets:

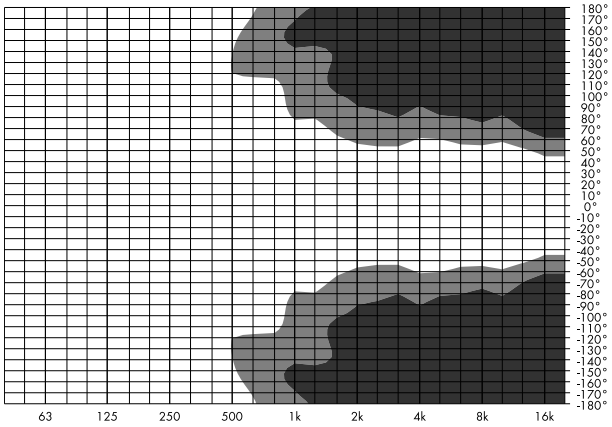
- **U3:** CPL +3 dB
- **U5:** CPL +2 dB

Please also refer to ⇒ Chapter 2.5 “Technical specifications” on page 11.

2.4 Dispersion characteristics

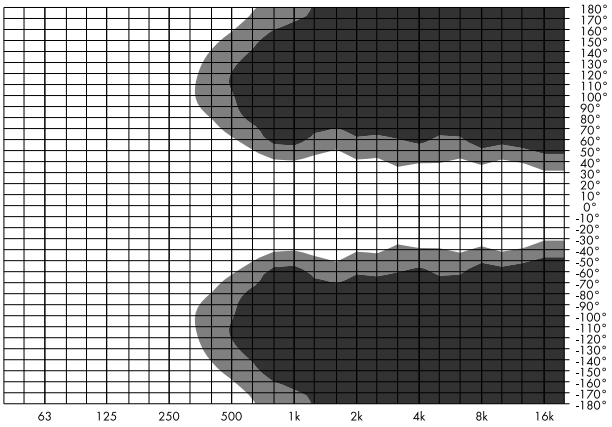
The following graphs show dispersion angle over frequency of a single cabinet plotted using lines of equal sound pressure (isobars) at –6 dB and –12 dB.

U3

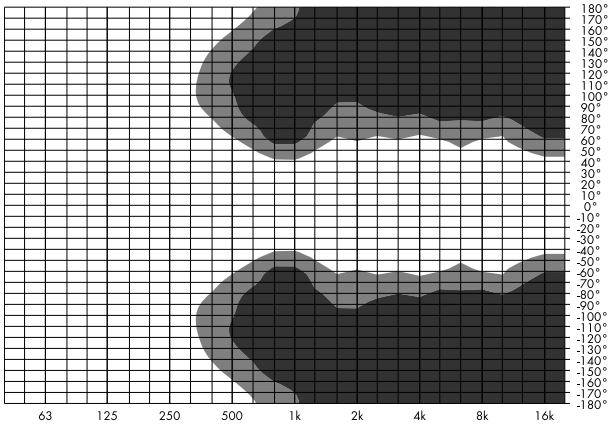


Isobar diagram U3 horizontal, standard setup

U3
vertical setup

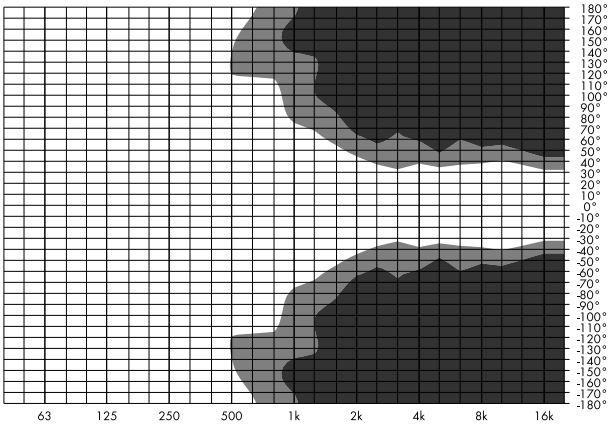


Isobar diagram U3 vertical, standard setup



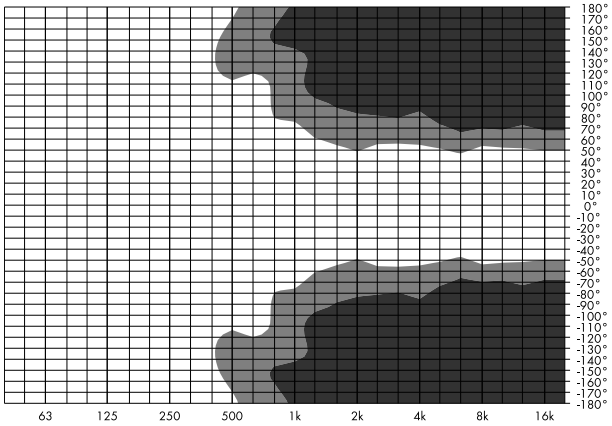
Isobar diagram U3 horizontal, horizontal setup with the horn rotated

U3
horizontal setup,
horn rotated

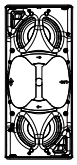


Isobar diagram U3 vertical, horizontal setup with the horn rotated

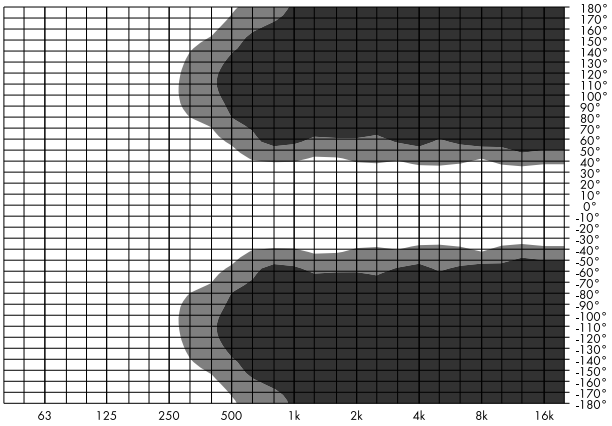
U5



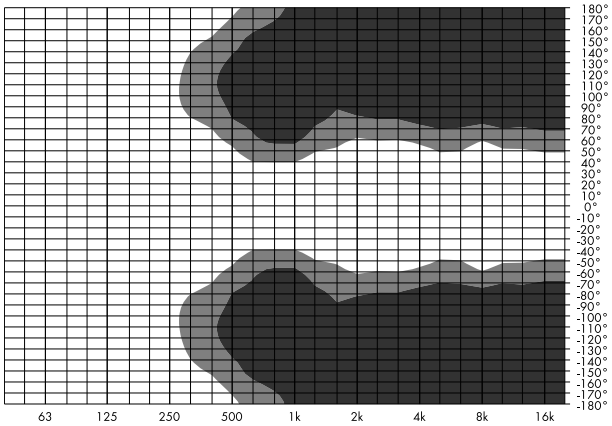
Isobar diagram U5 horizontal, standard setup



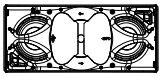
U5
vertical setup



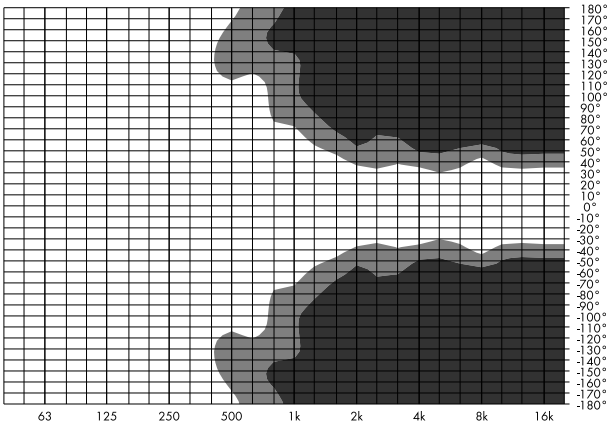
Isobar diagram U5 vertical, standard setup



Isobar diagram U5 horizontal, horizontal setup with the horn rotated

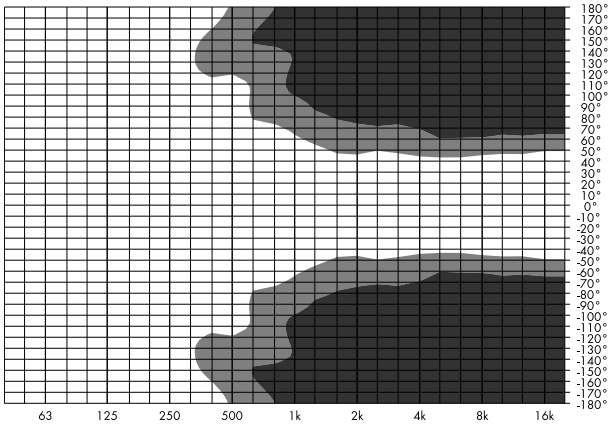


U5
horizontal setup,
horn rotated

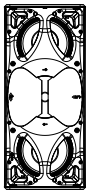


Isobar diagram U5 vertical, horizontal setup with the horn rotated

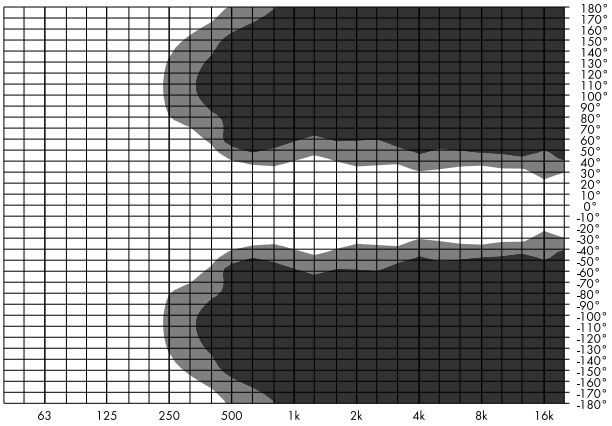
U7



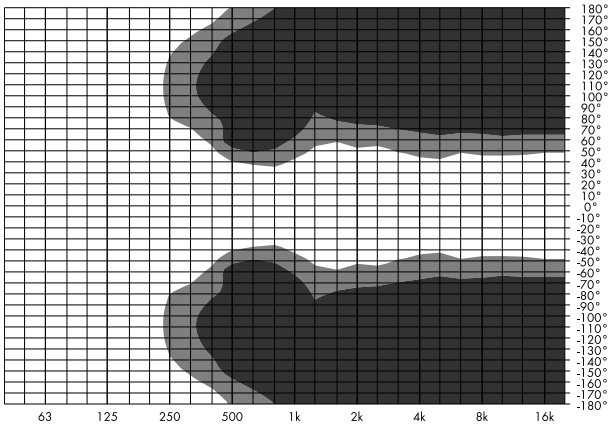
Isobar diagram U7 horizontal, standard setup



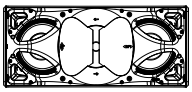
U7
vertical setup



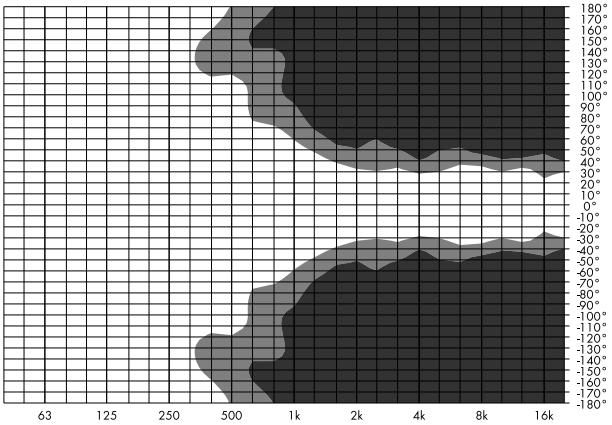
Isobar diagram U7 vertical, standard setup



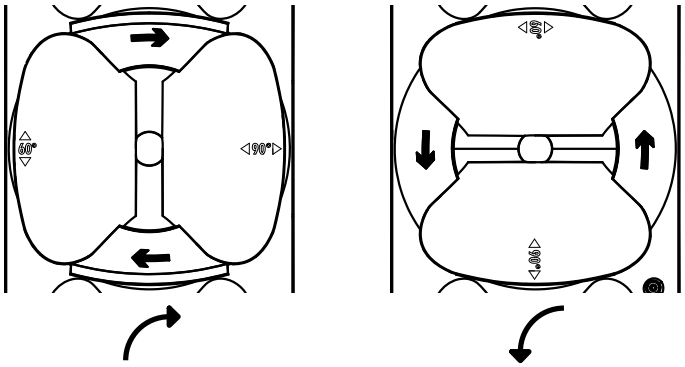
Isobar diagram U7 horizontal, horizontal setup with the horn rotated



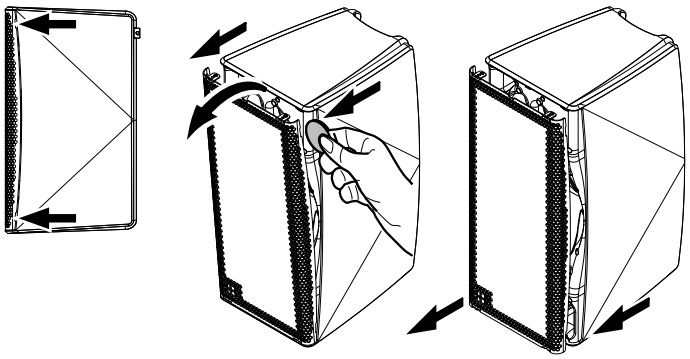
U7
horizontal setup,
horn rotated

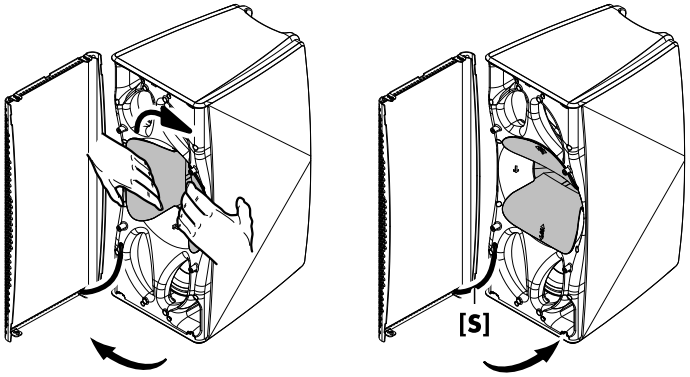


Isobar diagram U7 vertical, horizontal setup with the horn rotated



Direction of possible rotation and set dispersion





Rotating the horn

Altering the HF horn dispersion

By factory default, the HF horn is set to nominal horizontal dispersion when the cabinet is used in upright position.

NOTICE!
Potential risk of damage to components!

The HF horn can be rotated in one direction only! Clockwise through 90° (↱) and/or back - **Counter clockwise** (↰) - as shown in the graphic opposite.

The actually set dispersion is also indicated on the horn flange.

To rotate the horn, proceed as follows:

CAUTION!
Potential risk of personal injury due to falling objects!

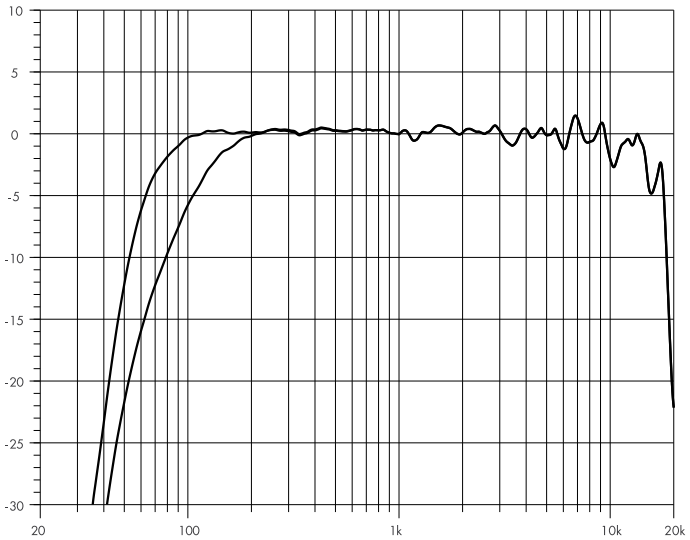
- Set the desired horn orientation before mounting or suspending the cabinet.
- Do not remove the front grill while the cabinet is mounted or flown above the ground.

The grill is tightly fixed to the baffle by snap-in mechanisms at the top and bottom corners of the grill.
In addition, the grill is secured by a safety wire **[S]**.

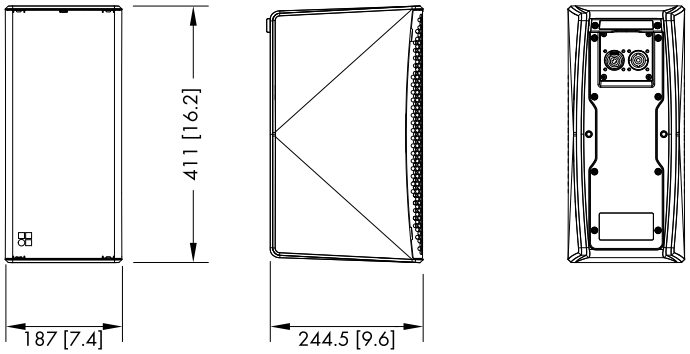
1. Remove the grill using an appropriate coin, as shown in the graphic opposite.
2. Take the horn flange at its outer edges and turn it to the desired position (direction).
3. Relocate the front grill and let it snap in.
   ↳ Make sure the safety wire **[S]** is located between the baffle and the cabinet grill.

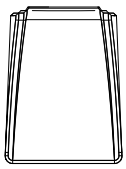
2.5 Technical specifications

2.5.1 U3



U3 frequency response, standard and CUT modes.





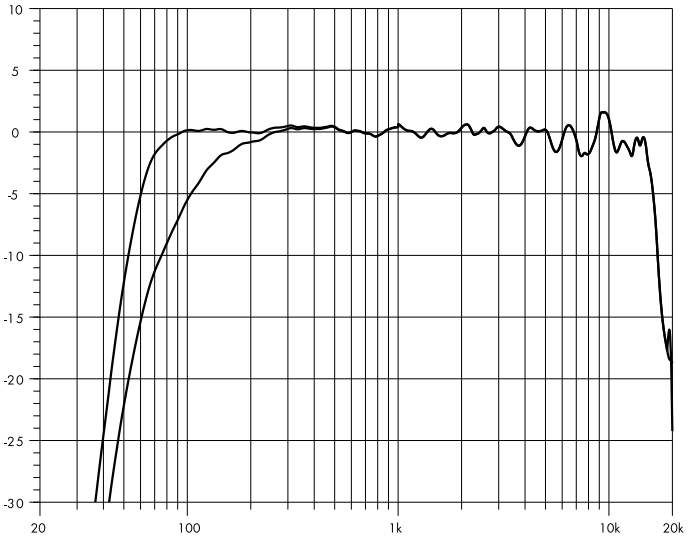
U3 cabinet dimensions in mm [inch]

System data

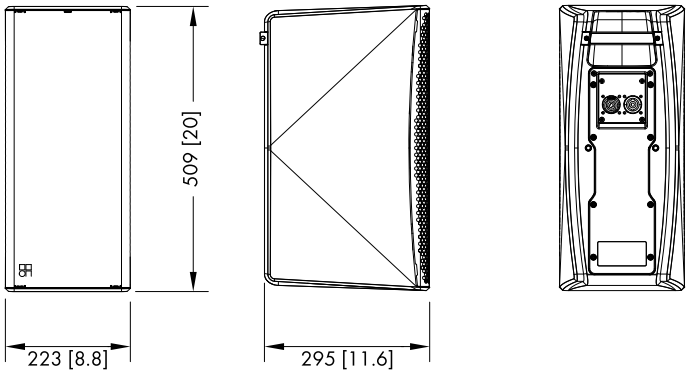
Frequency response (–5 dB standard) .....61 Hz - 18 kHz
Frequency response (–5 dB CUT mode) ..... 105 Hz - 18 kHz
Frequency response (–10 dB standard, IEC60268) .....52 Hz - 19 kHz
Frequency response (–10 dB CUT mode, IEC60268).....80 Hz - 19 kHz
Extended full-range mode (–5 dB @ CPL: +3 dB) .....55 Hz - 18 kHz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4).....
with D90/D80/D40/D25/D20/5D/25D/30D/40D .....128 dB
with 10D .....126 dB

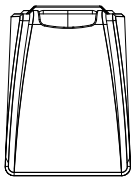
Loudspeaker data

Nominal impedance.....12 ohms
Power handling capacity (RMS/peak 10 ms) ..... 150/500 W
Nominal dispersion angle (hor. x vert.) ..... 100° x 65°
Components .....2 x 5" driver with neodymium magnet
..... 1 x 0.75" exit HF compression driver with 1.4" coil
.....Rotatable CD horn
..... Passive crossover network
Connections.....NL4 M and 2-pin Euroblock in parallel
.....Additional connector option: NLT4 F/M
Pin assignment.....1+/1–
Weight .....7.1 kg (15.7 lb)



U5 frequency response, standard and CUT modes.





U5 cabinet dimensions in mm [inch]

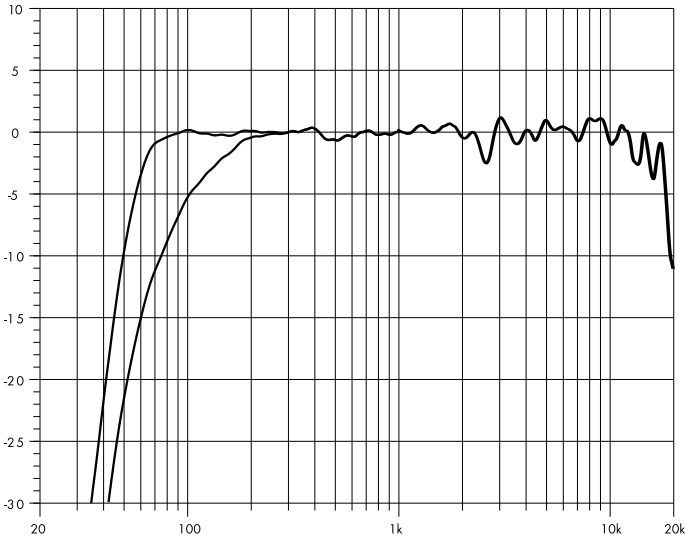
2.5.2 U5

System data

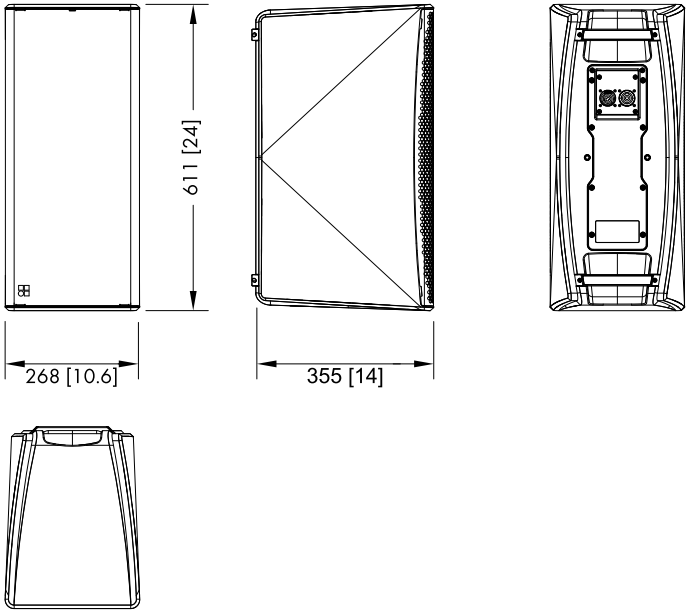
Frequency response (–5 dB standard) .....58 Hz - 17 kHz
Frequency response (–5 dB CUT mode) ..... 105 Hz - 17 kHz
Frequency response (–10 dB standard, IEC60268) .....52 Hz - 18 kHz
Frequency response (–10 dB CUT mode, IEC60268).....75 Hz - 18 kHz
Extended full-range mode (–5 dB @ CPL: +2 dB) .....55 Hz - 17 kHz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4).....
with D90/D80/D40/D25/D20/5D/25D/30D/40D .....133 dB
with 10D .....130 dB

Loudspeaker data

Nominal impedance..... 8 ohms
Power handling capacity (RMS/peak 10 ms) ..... 200/700 W
Nominal dispersion angle (hor. x vert.) .....90° x 60°
Components ..... 2 x 6.5" driver with neodymium magnet
..... 1 x1" exit HF compression driver with 1.7" coil
.....Rotatable CD horn
..... Passive crossover network
Connections.....NL4 M and 2-pin Euroblock in parallel
..... Additional option: NLT4 F/M
Pin assignment.....1+/1–
Weight ..... 11.5 kg (25.4 lb)



U7 frequency response, standard and CUT modes.



U7 cabinet dimensions in mm [inch]

2.5.3 U7

System data

Frequency response (–5 dB standard) .....55 Hz - 18 kHz
Frequency response (–5 dB CUT mode) ..... 105 Hz - 18 kHz
Frequency response (–10 dB standard, IEC60268) .....50 Hz - 20 kHz
Frequency response (–10 dB CUT mode, IEC60268).....75 Hz - 20 kHz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4).....
with D90/D80/D40/D25/D20/5D/25D/30D/40D .....136 dB
with 10D .....133 dB

Loudspeaker data

Nominal impedance..... 6 ohms
Power handling capacity (RMS/peak 10 ms) .....400/1400 W
Nominal dispersion angle (hor. x vert.) .....80° x 55°
Components .....2 x 8" driver with neodymium magnet
..... 1 x 1.26" exit HF compression driver with 2.4" coil
.....Rotatable CD horn
..... Passive crossover network
Connections.....NL4 M and 2-pin Euroblock in parallel
..... Additional option: NLT4 F/M
Pin assignment.....1+/1–
Weight ..... 19.2 kg (42.3 lb)

3.1 Conformity of loudspeakers

This declaration applies to:

- **d&b Z1005 U3 loudspeaker**
- **d&b Z1010 U5 loudspeaker**
- **d&b Z1015 U7 loudspeaker**

by d&b audiotechnik GmbH & Co. KG.

All product variants are included, provided they correspond to the original technical version and have not been subject to any later design or electromechanical modifications.

We herewith declare that said products are in conformity with the provisions of the respective directives including all applicable amendments.

Detailed and applicable declarations are available on request and can be ordered from d&b or downloaded from the d&b website at www.dbaudio.com.

3.2 WEEE Declaration (Disposal)

Electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.

Please dispose of this product according to the respective national regulations or contractual agreements. If there are any further questions concerning the disposal of this product, please contact d&b audiotechnik.

WEEE-Reg.-Nr. DE: 13421928

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