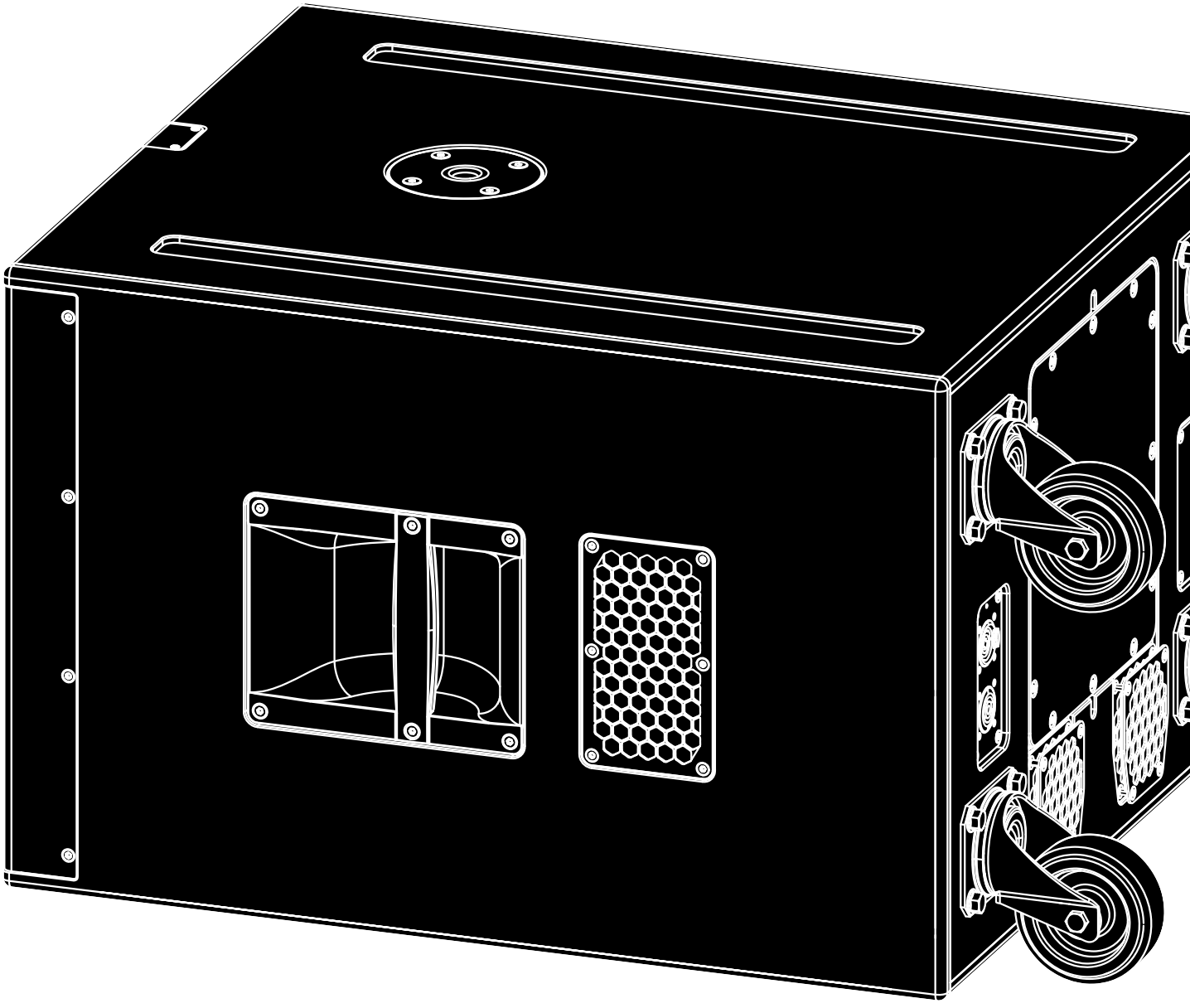
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B12-SUB
Manual 1.3 en



d&b audiotechnik

Notes on document version
All previous versions of this document are hereby no longer valid.

Version 1.3:
10D was listed in the technical specifications by mistake.

Refer to:
⇒ Chapter 2.4 “Technical specifications” on page 7.

General information

B12-SUB Manual

Version: 1.3 en, 08/2026, D2788.EN .01

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Potential risk of personal injury

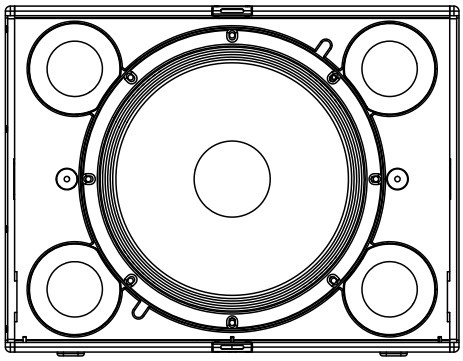
Never stand in the immediate vicinity of loudspeakers driven at a high level. Professional loudspeaker systems are capable of causing a sound pressure level detrimental to human health. Seemingly non-critical sound levels (from approx. 95 dB SPL) can cause hearing damage if people are exposed to it over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

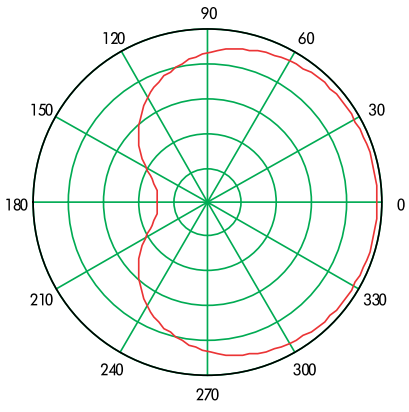
In order to prevent accidents when deploying loudspeakers on the ground or when flown, please take note of the following:

- 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.





Cardioid dispersion pattern

2.1 Intended use

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:
D90/D80/D40/D25/25D/40D

Product description

The B12-SUB is a compact high performance cardioid subwoofer intended for mobile applications on the ground.

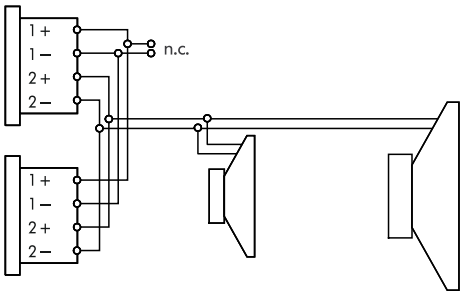
It houses two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design facing to the front and a 10" driver in a 2-chamber bandpass design radiating to the rear. The arrangement and tuning provide a cardioid dispersion pattern using a single amplifier channel.
Its frequency response extends from 39 Hz to 150/100 Hz.

The cabinet enclosure is constructed from marine plywood and has an impact and weather protected PCP finish. The front and rear of the cabinet is protected by a rigid metal grill backed by an acoustically transparent and water repellent fabric.
Each side panel incorporates a handle and mounted on the rear panel are four heavy duty wheels.
Two runners extend from the rear to the front panel of the cabinet protecting the bottom panel against scratching.
Two correspondingly shaped recesses are incorporated in the top panel to accept these runners and prevent cabinet movement when stacking.
An M20 threaded flange in the top panel accepts a corresponding pole for the deployment of TOP cabinets.

Cardioid dispersion

Cardioid dispersion avoids unwanted energy behind the system and greatly reduces the excitation of the reverberant field at low frequencies providing the greatest accuracy of low frequency reproduction.

The subwoofers can be used as stand-alone solutions or in stacked combinations with a minimum distance of 60 cm (2 ft) between adjacent cabinets or between the subwoofers and a side wall. When positioned in front of walls, the minimum distance to rear walls should be 10 cm (0.3 ft) which is already maintained by the wheels mounted at the rear of the cabinet.



NLT4 F/M Connector wiring

2.2 Connections

The cabinet is fitted with NLT4 F/M connectors. All four pins of both connectors are wired in parallel. The cabinet uses the pin assignments 2+/2–. Pins 1+/1– are designated to TOP loudspeakers. Using the male connector as the input, the female connector allows for direct connection to a second cabinet.

d&b LoadMatch

With the d&b four channel amplifier platform, the LoadMatch function enables the amplifier to electrically compensate for the properties of the loudspeaker cable used without the need for an additional sense wire. For applicable loudspeakers, LoadMatch is therefore independent of the connector type used.

2.3 Operation

Amplifier output mode(s): Dual Channel or Mix TOP/SUB		
Application	**Setup**	**Cabinets per channel**
B12-SUB	B12-SUB	2

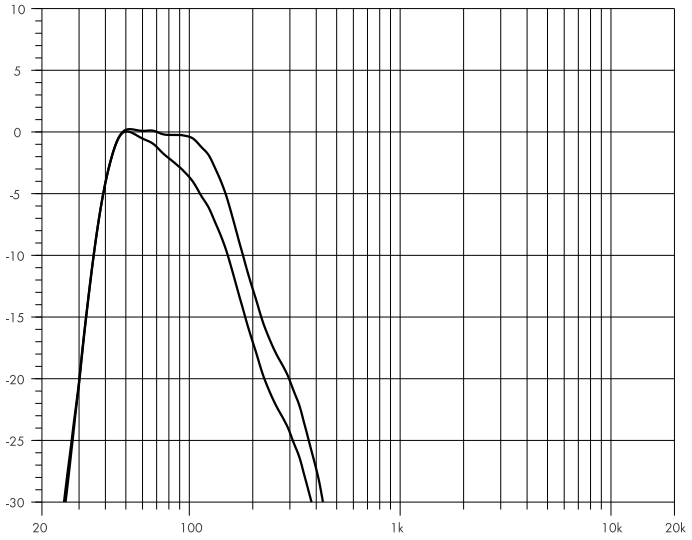
2.3.1 Controller settings

For acoustic adjustment the 100 Hz mode can be selected.

100 Hz mode

With the 100 Hz mode selected, the upper operating frequency of the system is reduced from 150 Hz to 100 Hz.

It can be used when B12-SUB cabinets are used to supplement TOP cabinets operated in full range mode, for example in a distributed sound system.
The 100 Hz mode can also be used to compensate for the effect of close coupling between the subwoofer and TOP cabinets operated in CUT mode.



B12-SUB frequency response, Standard and 100 Hz modes

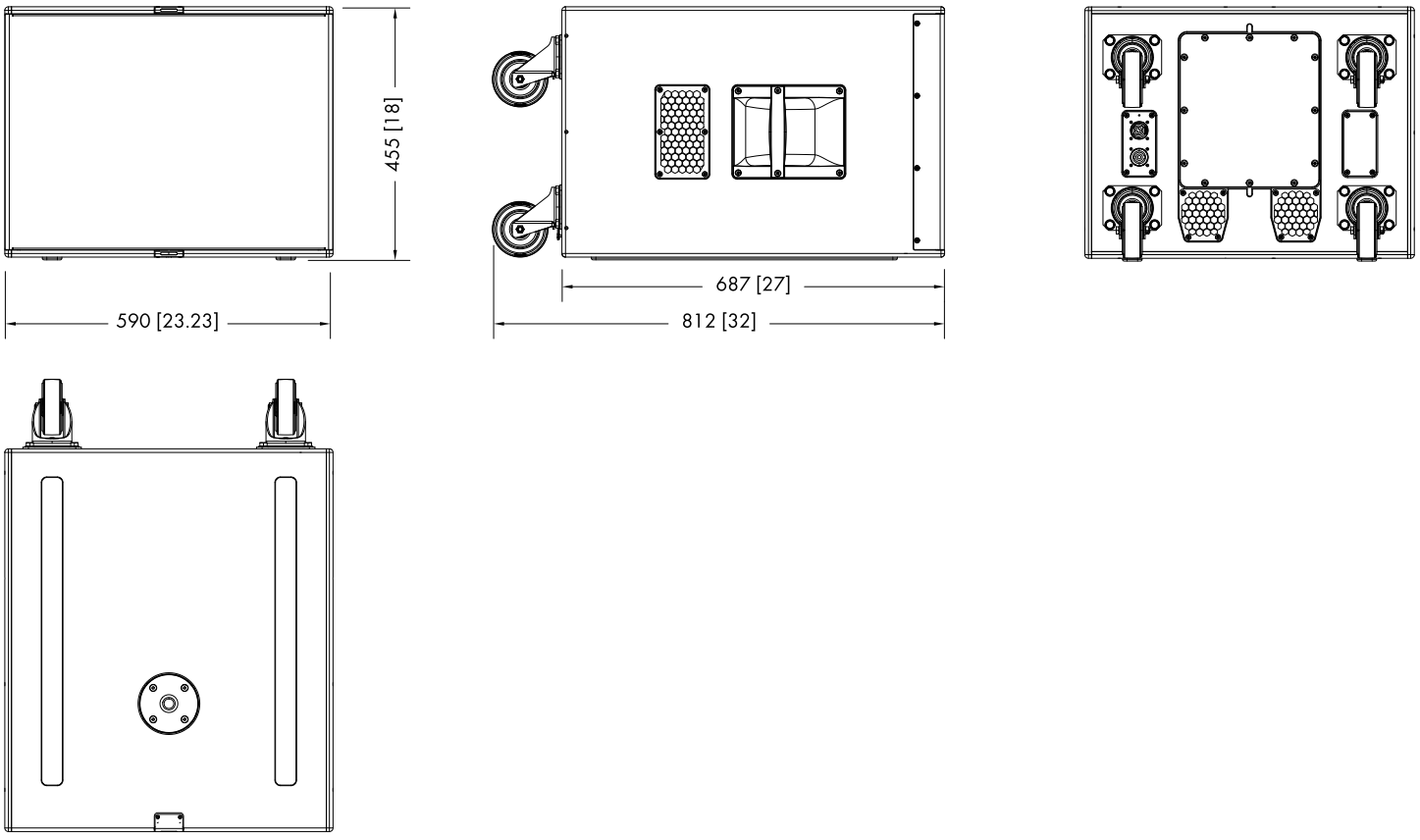
2.4 Technical specifications

System data

Frequency response (–5 dB Standard) ..... 39 Hz - 150 Hz
Frequency response (–5 dB 100 Hz mode) ..... 39 Hz - 100 Hz
Frequency response (–10 dB standard, IEC60268) ..... 35 Hz - 180 Hz
Frequency response (–10 dB 100 Hz mode, IEC60268) . 35 Hz - 140 Hz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4) .....
with D25/D20/25D/30D ..... 129 dB
with D40/D90/D80/40D ..... 132 dB

Loudspeaker data

Nominal impedance front/rear ..... 10 ohms
Power handling capacity (RMS/peak 10 ms) ..... 500/1200 W
Components ..... 1 x 15" driver front/1 x 10" driver rear
Connections ..... 1 x NLT4 F/M
Pin assignment ..... 2+/2–
Weight ..... 42 kg (93 lb)



B12-SUB cabinet dimensions in mm [inch]

3.1 Conformity of loudspeakers

This declaration applies to:

- **d&b Z0870 B12-SUB 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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