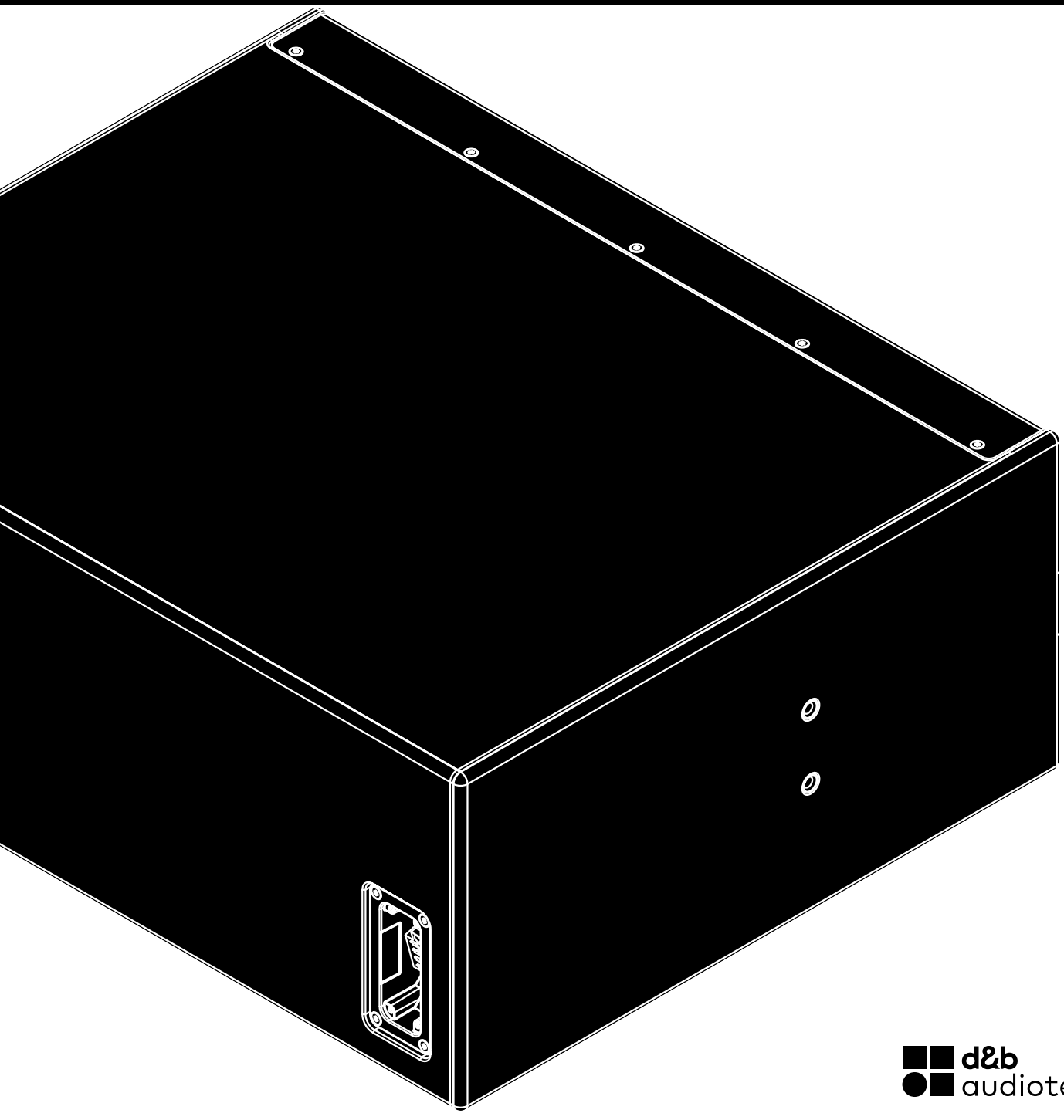
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Bi10-SUB
Manual 1.3 en



d&b audiotechnik

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All previous versions of this document are hereby no longer valid.

Version 1.3:
Rubber feet option added.

Refer to:
⇒ Chapter 2.1 “Intended use” on page 5...
and
⇒ Chapter 2.4 “Technical specifications” on page 6.

General information

Bi10-SUB Manual

Version: 1.3 en, 08/2026, D2800.EN .01

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Potential risk of personal injury

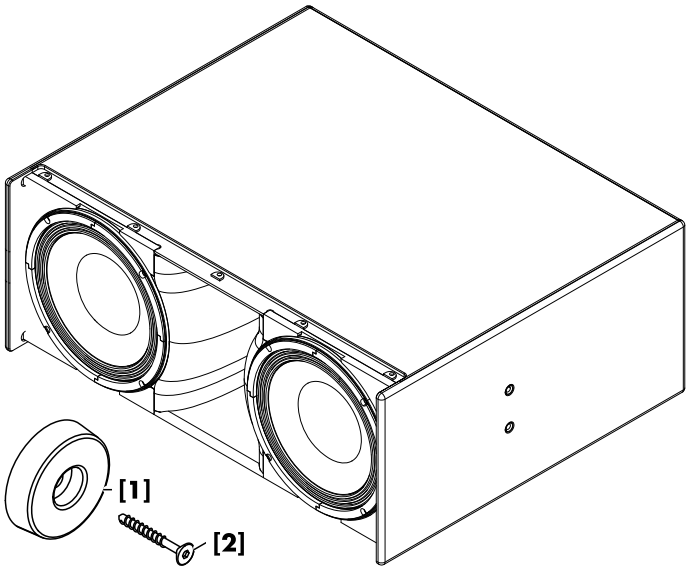
Never stand in the immediate vicinity of loudspeakers driven at a high level. Professional loudspeaker systems are capable of causing a sound pressure level detrimental to human health. Seemingly non-critical sound levels (from approx. 95 dB SPL) can cause hearing damage if people are exposed to it over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

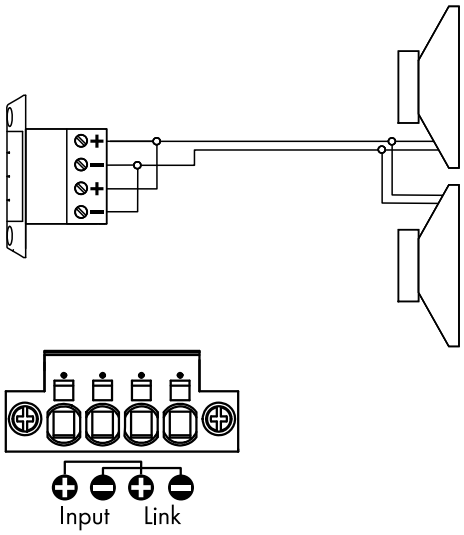
In order to prevent accidents when deploying loudspeakers on the ground or when flown, please take note of the following:

- 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.





Connector wiring

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/D25/5D/5DM/25D/40D

Product description

The Bi10-SUB is a installation-specific, compact high performance subwoofer designed for small footprint setups and low-height applications. Featuring two 10" drivers in a bass-reflex cabinet with an advanced port design, it pairs perfectly with d&b U-Series and other compact d&b loudspeakers.

The frequency response extends from 38 Hz to 130/100 Hz.

The cabinet enclosure is constructed from marine plywood and has an impact and weather protected PCP finish. The front of the cabinet is protected by a rigid metal grill backed by an acoustically transparent foam.

Four rubber feet **[1]** including screws **[2]** (Torx drive T20) are included with the shipment. These are intended to be optionally attached to the bottom or side panel to prevent cabinet movement and for protection against scratching when the cabinet is intended to be positioned directly on the floor either horizontally or in upright position.
The recommended positions are shown in the dimension drawing in ⇒ Chapter 2.4 “Technical specifications” on page 6.

Each side panel incorporates two threaded inserts M10 for the attachment of dedicated mounting accessories.

2.2 Connections

The cabinets are fitted with a 4-pole Phoenix connector socket (Type: DFK PC 4/4 GF) using the pin assignment 1:+, 2:–, 3:+, 4:–. Pins 1/3 and 2/4 are linked.
A corresponding Phoenix plug (Type: SPC 5/4) is enclosed with the 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**
Bi10-SUB	B10-SUB	2 With 5D/5DM: 1*

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

2.3.1 Controller settings

100 Hz mode
It can be used when Bi10-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.

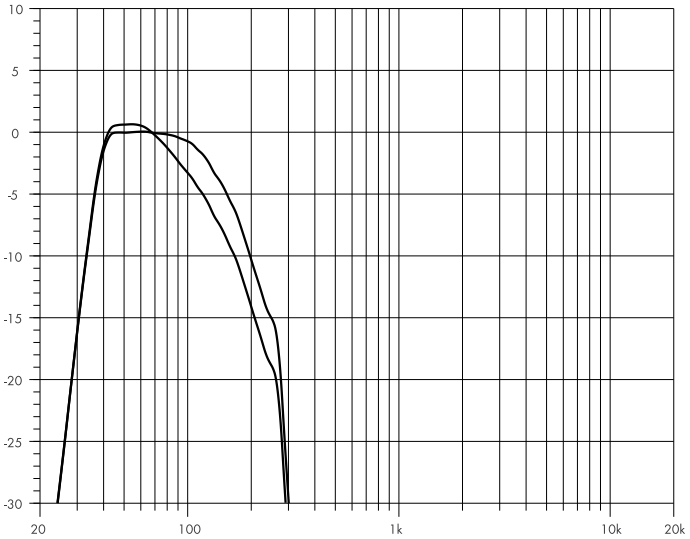
2.4 Technical specifications

System data

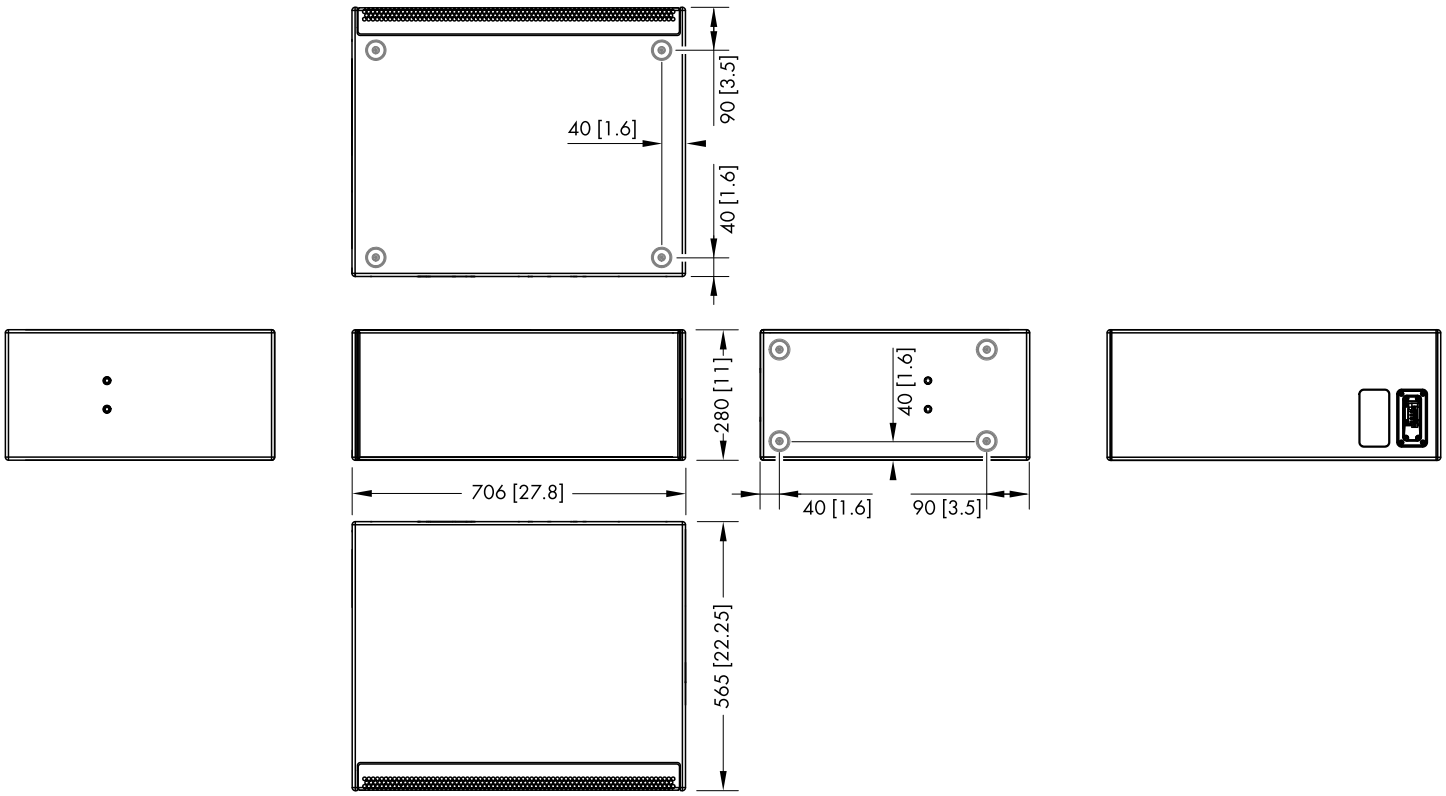
Frequency response (–5 dB Standard) ..... 38 Hz - 130 Hz
Frequency response (–5 dB 100 Hz mode) ..... 38 Hz - 100 Hz
Frequency response (–10 dB standard, IEC60268) ..... 34 Hz - 170 Hz
Frequency response (–10 dB 100 Hz mode, IEC60268) . 34 Hz - 140 Hz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4) .....
with D90/D80/D40/40D ..... 130 dB
with D25/D20/25D/30D ..... 128 dB
with 5D/5DM ..... 127 dB
with 10D ..... 126 dB

Loudspeaker data

Nominal impedance ..... 6 ohms
Power handling capacity (RMS/peak 10 ms) ..... 500/1200 W
Components ..... 2 x 10" driver
Connections ..... Phoenix socket (Type: DFK PC 4/4 GF)
..... Phoenix Plug (Type: SPC 5/4)
Weight ..... 27 kg (60 lb)



Bi10-SUB frequency response, Standard and 100 Hz modes



Bi10-SUB cabinet dimensions in mm [inch]
Including rubber feet positions

3 Manufacturer's declarations

3.1 Conformity of loudspeakers

This declaration applies to:

- **d&b Z2021 Bi10-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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