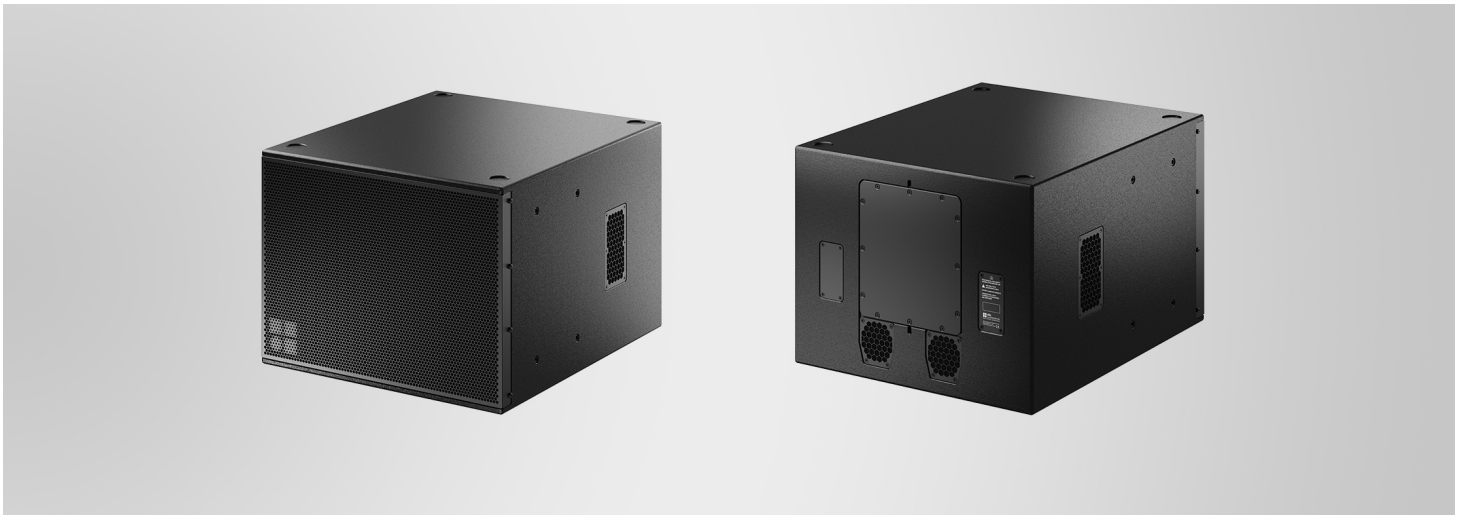
The Bi12-SUB subwoofer



The Bi12-SUB is a compact high performance subwoofer intended for fixed installation purposes.
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 of the cabinet is protected by a rigid metal grill backed by an acoustically transparent and water repellent fabric.
Each side panel incorporates four threaded inserts M10 to allow the secure attachment of dedicated mounting accessories.

d&b amplifiers
The d&b audiotechnik loudspeaker range is designed exclusively for operation with d&b amplifiers. These provide power as well as comprehensive control and protection functions tailored to achieve the performance, reliability and longevity associated with the d&b system approach.

System data

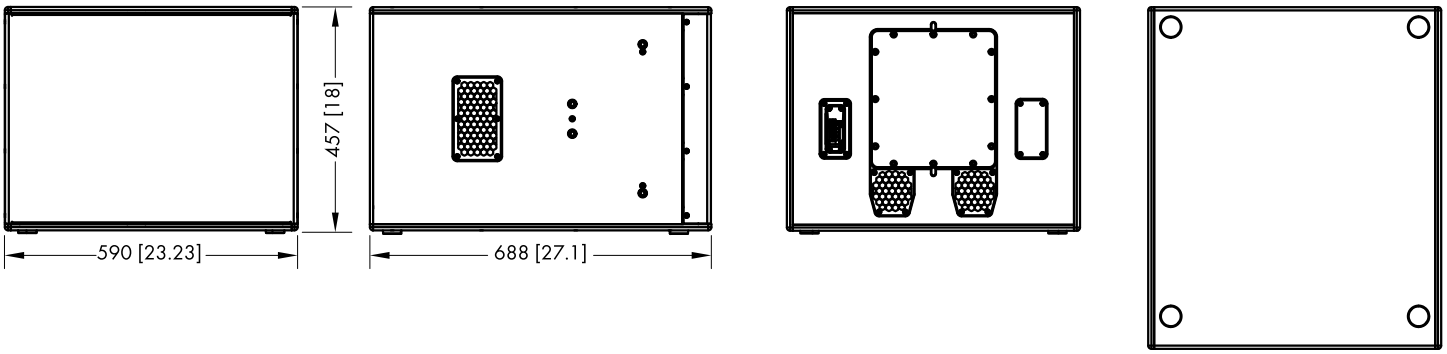
Frequency response (–5 dB Standard)	39 Hz - 150 Hz
Frequency response (–5 dB 100 Hz mode)	39 Hz - 100 Hz
Frequency response (–10 dB standard, IEC60268)	35 Hz - 180 Hz
Frequency response (–10 dB 100 Hz mode, IEC60268)	35 Hz - 140 Hz
Max. SPL (Peak, 1 m, free field, pink noise with crest factor 4)	
with 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	Phoenix socket (Type: DFK PC 4/4 GF)
	Phoenix Plug (Type: SPC 5/4)
Weight	37 kg (82 lb)

d&b audiotechnik

The Bi12-SUB subwoofer



Bi12-SUB cabinet dimensions in mm [inch]

Copyright © 08/2026, d&b audiotechnik GmbH & Co. KG

Applications

- Small and medium scale sound reinforcement applications
- Concert halls
- Houses of Worship
- Theaters
- Clubs and music venues

Features and benefits

- Cardioid dispersion pattern reduces LF acoustic energy emitted towards the sides and rear of the Subwoofer, minimizing interactions and reflections from surrounding boundaries, stage level and feedback and unwanted propagation away from the intended listening areas.
- Passive cardioid principle reduces cabling infrastructure and total amplifier/DSP channel count, for streamlined and cost effective system architectures.
- Lightweight and compact, with highly efficient use of the associated amplifiers, to deliver excellent power density in a versatile, convenient form-factor, with all necessary accesories and design features for fixed installation applications.

Architectural specifications

The loudspeaker shall be a compact high performance, passive cardioid subwoofer.
It shall consist of two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design shall facing to the front and a 10" driver in a 2-chamber bandpass design shall radiating to the rear. The arrangement and tuning shall provide a cardioid dispersion pattern using a single amplifier channel.
The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.
The cabinet enclosure shall be made from marine plywood with an impact resistant paint finish.
Special colors according to RAL table shall be available upon request.
The driver shall be protected by a rigid metal grill backed by an acoustically transparent and water repellent fabric.
Four threaded inserts M10 shall be provided on each side panel for the attachment of dedicated mounting brackets.
Four rubber feet shall be incorporated in the bottom panel to prevent the cabinet from movement and scratching and four corresponding recesses in the top panel shall be incorporated to prevent movement of stacked cabinets.
The connection panel on the back shall be recessed and fitted with a 4-pin Phoenix connector.
A cover plate which accepts a single PG cable gland (Type PG13.5 for cable diameters from 6 - 12 mm) shall be available upon request.
The power handling capacity shall be 500 W RMS and 1200 W peak (10 ms). The frequency response (–5 dB) measured on axis shall be 39 Hz to 150 Hz with a maximum sound pressure of at least 132 dB.
The dimensions (W x H x D) shall not exceed 590 x 457 x 688 mm (23.23" x 18" x 27.1") and shall weigh no more than 37 kg (82 lb).

The loudspeaker shall be the Bi12-SUB by:
d&b audiotechnik GmbH & Co. KG.

d&b audiotechnik