

The 12S loudspeaker



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The 12S loudspeaker is a light-weight, high performance loudspeaker in a 2-way passive design using neodymium drivers.

The loudspeaker is a single box solution employing a single 12" driver in a bass-reflex enclosure and a HF section with a large horn for accurate pattern control providing rotatable dispersion characteristics of 75° x 50°. It is equipped with a 1.4" exit compression driver.

With a frequency response extending from 48 Hz to 18 kHz, the cabinets can be used as full range systems or supplemented by different subwoofers of the xS or xA-Series.

The enclosure is constructed from marine plywood with an impact resistant black paint finish.

The front of the cabinet is protected by a rigid metal grill backed by an acoustically transparent foam and is Ball Impact Resistant according to DIN 18032-3.

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.

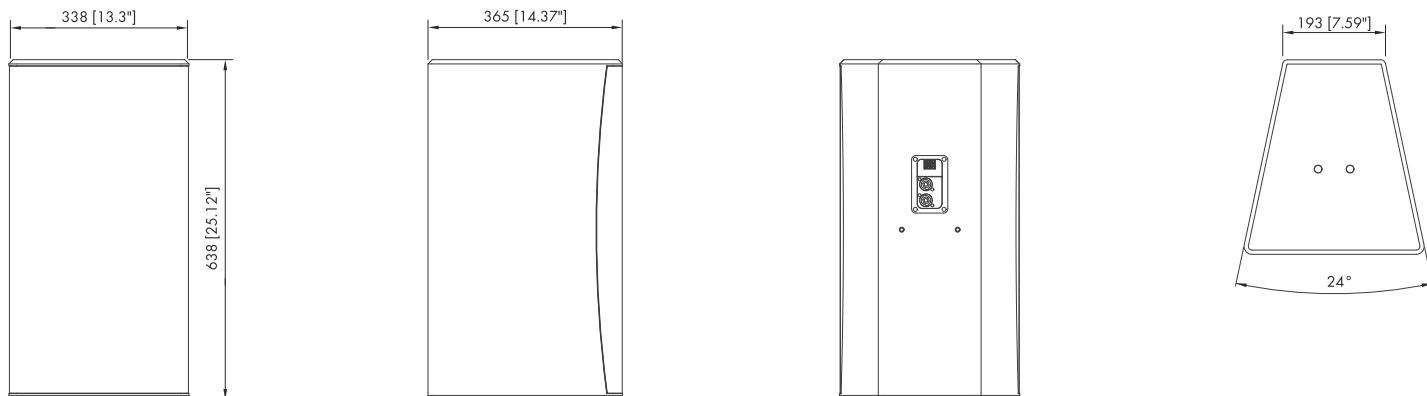
System data

Frequency response (-5 dB standard)	48 Hz - 18 kHz
Frequency response (-5 dB CUT mode)	100 Hz - 18 kHz
Max. sound pressure 1 m, free field	
with 10D/D6	130 dB
with 30D/40D/D12/D20/D40/D80	133 dB
(SPLmax peak, pink noise test signal with crest factor of 4)	

Loudspeaker data

Nominal impedance	8 ohms
Power handling capacity (RMS/peak 10 ms)	300/1600 W
Nominal dispersion angle (hor. x vert.)	75° x 50°
Components	12" driver with neodymium magnet
	1.4" exit compression driver on rotatable waveguide
	Passive crossover network
Connections	2 x NL4
	1 x screw terminal (ST - up to 4 mm ² /AWG 11)
	WR option: Faston type connector (2 x 6.3 mm)
Pin assignment	NL4: 1+/1-
	WR option: brown + / blue -
Weight	17 kg (37 lb)

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12S cabinet dimensions in mm [inch]

Architectural specifications

The 2-way biaxial, passive loudspeaker shall consist of a 12" low frequency driver with a neodymium magnet assembly and a 1.4" neodymium compression driver mounted on a rotatable CD-Horn. The bass-reflex enclosure shall be made from marine plywood with an impact resistant black paint finish. Special colours according to RAL table and a weather resistant option shall be available upon request. The drivers shall be protected by a powder coated metal grill with an acoustically transparent foam.

The cabinet shall be Ball Impact Resistant according to DIN 18032-3 for schools and sports halls.

The cabinet shall incorporate two M8 threaded inserts on the rear panel for the secure attachment of wall mounts. The cabinet shall incorporate one M10 threaded inserts on the top and bottom panel for the secure attachment of mounting brackets. The connection panel on the back shall be recessed and fitted with two NL4 sockets and a two pole screw terminal block. A cover plate for protection of the connection panel shall be included.

The loudspeaker shall have a nominal dispersion angle of $75^{\circ} \times 50^{\circ}$ (hor. x vert.).

The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.

The power handling capacity shall be 300 W RMS and 1600 W peak (10 ms). The frequency response (-5dB) measured on axis shall be 48 Hz to 18 kHz with a maximum sound pressure of at least 130 dB or 133 dB respectively when operated with one of its dedicated controller amplifiers. The dimensions (W x H x D) shall not exceed 338 x 638 x 365 mm (13.3" x 25.12" x 14.37") and shall weigh no more than 17 kg (37 lb).

The loudspeaker shall be the 12S by:
d&b audiotechnik GmbH & Co. KG.