

The 8S loudspeaker



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The 8S loudspeaker is a full range, two-way bass-reflex enclosure, utilizing an 8"/1" coaxial driver combination with a passive crossover. Coaxially mounting the 1" HF compression driver and 8" LF driver using a single magnet assembly creates a very compact driver with 100° constant directivity HF dispersion.

With a frequency response extending from 70 Hz to 20 kHz, the cabinet can be used as a full range system 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 loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam.

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.

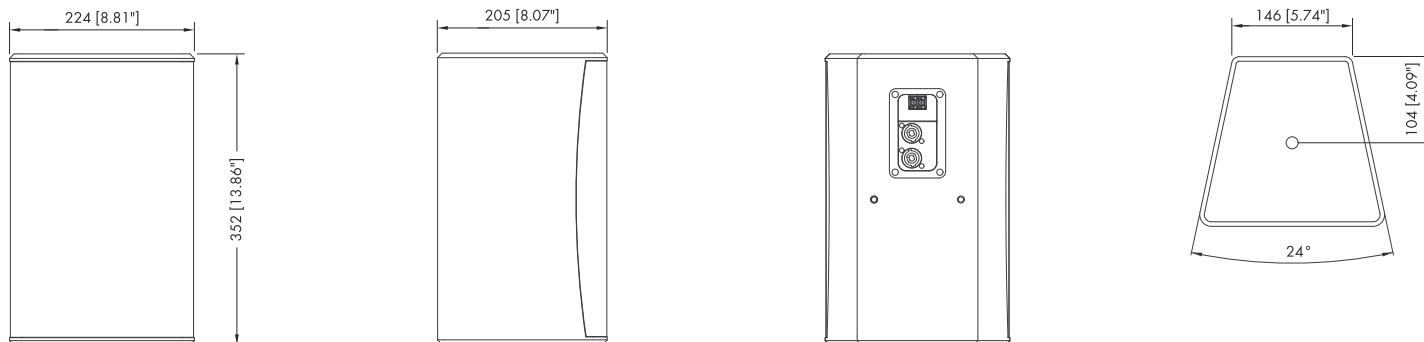
System data

Frequency response (-5 dB standard)	70 Hz - 20 kHz
Frequency response (-5 dB CUT mode)	110 Hz - 20 kHz
Max. sound pressure (1 m, free field)	
with 10D/D6	124 dB
with 30D/40D/D12/D20/D40/D80	127 dB
	(SPLmax peak, pink noise test signal with crest factor of 4)

Loudspeaker data

Nominal impedance	16 ohms
Power handling capacity (RMS/peak 10 ms)	150/800 W
Nominal dispersion angle (hor. x vert.)	100° conical
Components	8" driver with neodymium magnet
	1" compression driver, coaxially mounted
	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 assignments	NL4: 1+/1-
	WR option: Brown + / Blue -
Weight	7.4 kg (16 lb)

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8S cabinet dimensions in mm [inch]

Architectural specifications

The 2-way, passive loudspeaker shall consist of a 8" low frequency driver with a neodymium magnet assembly and a coaxially mounted 1" compression driver. The bass-reflex enclosure shall be made from marine plywood with an impact resistant black or white 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 incorporate two M8 threaded inserts on the rear panel for the secure attachment of wall mounts. The cabinet shall incorporate one M8 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 conical dispersion angle of 100°.

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

The power handling capacity shall be 150 W RMS and 800 W peak (10 ms). The frequency response (-5 dB) measured on axis shall be 70 Hz to 20 kHz with a maximum sound pressure of at least 124 dB or 127 dB respectively when operated with one of its dedicated controller amplifiers. The dimensions (W x H x D) shall not exceed 224 x 352 x 205 mm (8.81" x 3.86" x 8.07") and shall weigh no more than 7.4 kg (16 lb).

The loudspeaker shall be the 8S by:
d&b audiotechnik GmbH & Co. KG.