The 10AL-D loudspeaker



10AL-D loudspeaker

The 10AL-D loudspeaker is a light-weight, high performance loudspeaker in a 2-way passive design using neodymium drivers.
The loudspeaker is a line array module employing a single 10" driver in a bass-reflex enclosure and a HF section providing a constant directivity HF line sources with 105° horizontal coverage using dual1" exit driver.
With a frequency response extending from 60 Hz to 18 kHz, the cabinet 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.
The cabinet is equipped with an integrated rigging system for the design of vertical arrays providing application specific dispersion characteristics.

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

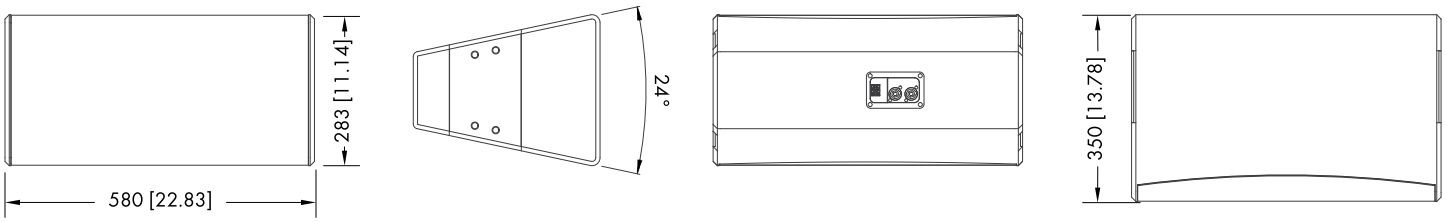
Frequency response (–5 dB standard) ..... 60 Hz - 18 kHz
Frequency response (–5 dB CUT mode) ..... 110 Hz -18 kHz
Max. sound pressure 1 m, free field) .....
10AL-D with 10D/D6 ..... 129 dB
10AL-D with 30D/40D/D12/D20/D40/D80 ..... 132 dB
..... (SPLmax peak, pink noise test signal with crest factor of 4)

Loudspeaker data

Nominal impedance ..... 12 ohms
Power handling capacity (RMS/peak 10 ms) ..... 200/1200 W
Nominal dispersion angle (horizontal) ..... 105°
Splay angle setting ..... 0°, 1°, 2°, 4°, 6°, 9°, 12°, 15°
Components ..... 10" driver with neodymium magnet
..... 2 x 1" exit compression drivers
..... 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 ..... 14 kg (31 lb)

d&b audiotechnik®

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10AL-D cabinet dimensions in mm [inch]

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Architectural specifications

The 2-way biaxial, passive, line array loudspeaker shall consist of a 10" low frequency driver with a neodymium magnet assembly and a HF section providing a constant directivity HF line sources with 105° horizontal coverage using dual1" exit driver.
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 be equipped with an integrated rigging system for the design of vertical arrays providing application specific dispersion characteristics.
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 only be operated by a dedicated, compatible controller amplifier.
The power handling capacity shall be 200 W RMS and 1200 W peak **(10 ms)**. The frequency response (–5dB) measured on axis shall be 60 Hz to 18 kHz with a maximum sound pressure of at least 129 dB or 132 dB respectively when operated with one of its dedicated controller amplifiers. The dimensions (W x H x D) shall not exceed 580 x 283 x 350 mm (22.83" x 11.14" x 13.78") and shall weigh no more than 14 kg (31 lb).

The loudspeaker shall be the 10AL-D by:
d&b audiotechnik GmbH & Co. KG.