

The Ti10L loudspeaker



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The Ti10 is a very compact loudspeaker system which can be used both, as a line array and as a high directivity point source speaker. For these applications, the Ti10 cabinet provides two different dispersion characteristics which can be swapped over without any tools. The core of the design is a unique combination of a rotatable waveguide with horn and an acoustic lens.

The horn natively provides a vertical line source with 90° horizontal dispersion. The lens is part of the front grill and widens the HF dispersion in line array mode to 105° (Ti10L). When used upright as a point source, the lens curves the wavefront of the line source providing a 90° x 35° dispersion pattern (Ti10P).

The Ti10 is a two way design, employing dual 6.5" drivers, a 1.4" exit compression driver and a passive crossover network. The low drivers are positioned in a dipolar arrangement providing an exceptional dispersion control towards low frequencies.

Its frequency response extends from 68 Hz to above 18 kHz.

The cabinet is constructed from polyurethane integral hard foam with an impact and weather resistant black paint finish.

The cabinet shape allows the system to be set up as a single unit in upright orientation or as a line array in user defined vertical configurations.

The front of the loudspeaker cabinet is protected by a rigid metal grill in front of 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.

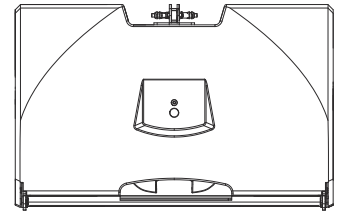
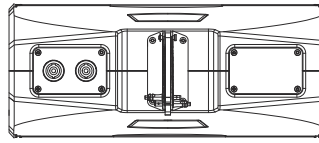
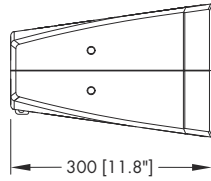
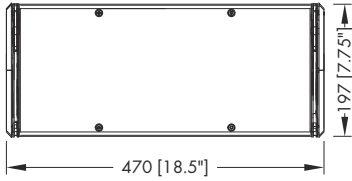
System data

Frequency response (-5 dB standard)	68 Hz - 18 kHz
Frequency response (-5 dB CUT mode)	120 Hz - 18 kHz
Max. sound pressure (Line/Arc setup, 1 m, free field)	
10D/D6	129 dB
30D/40D/D80/D40/D20/D12	132 dB

Loudspeaker data

Nominal impedance	16 ohms
Power handling capacity (RMS/peak 10 ms)	200/800 W
Nominal dispersion angle (line array, horizontal)	105°
Splay angle settings	0 ... 15° (1° increment)
Components	2 x 6.5" driver with neodymium magnet
.....	1.4" exit compression driver on rotatable waveguide
.....	Passive crossover network
Connections	2 x NL4 M
.....	WR option: Faston type connector (2 x 6.3 mm)
Pin assignment	NL4 M: 1+/1-
.....	WR option: Brown: (+) / Blue: (-)
Weight	11 kg (24 lb)

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Ti10L cabinet dimensions in mm [inch]

Architectural specifications

The 2-way dipolar, passive loudspeaker shall consist of two 6.5" low frequency driver with a neodymium magnet assembly and one 1.4" exit neodymium compression driver mounted to a dedicated rotatable wave shaping device and a passive crossover network.

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

The cabinet enclosure shall be made from polyurethane integral hard foam with an impact and weather protected PCP (Polyurea Cabinet Protection) finish.

Special colours according to RAL table and a weather resistant option shall be available upon request.

The drivers shall be protected by a rigid metal grill backed by an acoustically transparent foam.

The connection panel on the back shall be fitted with two NL4 sockets (Fixed cable 5 m (16.4 ft / H-07-RN-F 2 x 2.5 mm²/AWG 13) as weather resistant option(WR)).

The loudspeaker shall have a nominal dispersion angle of 90° x 35° (H x V).

The power handling capacity shall be 200 W RMS and 800 W peak (10 ms). The frequency response (-5 dB) measured on axis shall be 68 Hz to 18 kHz with a maximum sound pressure of at least 130 dB.

The dimensions in upright position (H x W x D) shall not exceed 470 x 197 x 300 mm (18.5" x 7.75" x 11.8") and shall weigh no more than 11 kg (24 lb).

The loudspeaker shall be the Ti10L by:
d&b audiotechnik GmbH & Co. KG.