

The 16C loudspeaker



16C loudspeaker

The 16C is a passive 2-way column loudspeaker housing four 4" neodymium drivers and 0.75" compression driver mounted on a CD horn. In the vertical plane, the cabinet provides directivity control down to 500 Hz.

The HF horn has a nominal dispersion of 90° x 40° (h x v).

The 4" drivers are arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet.

This design provides a cardioid dispersion pattern with an average broadband attenuation to the rear of approx. 18 dB.

The loudspeaker cabinet is based on an extruded aluminum profile with a metal grill protecting the front of the loudspeaker.

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.

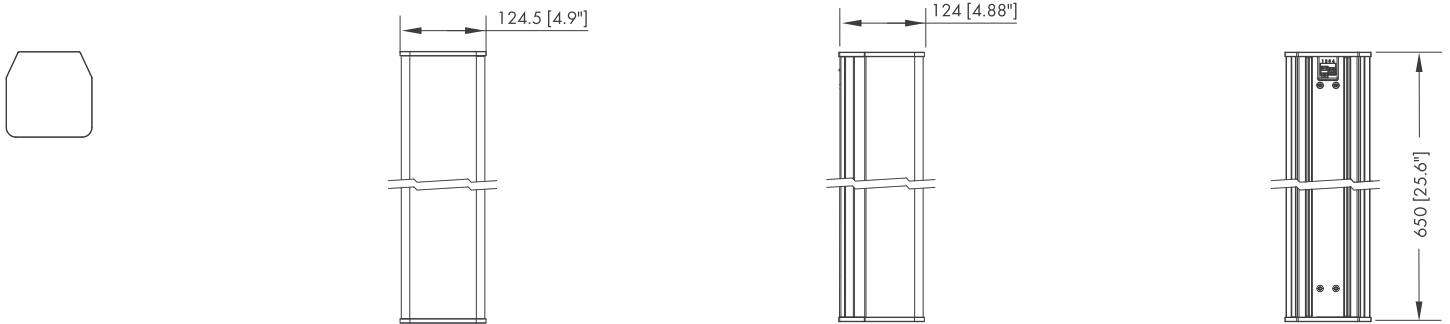
System data

| | |
|--|-----------------|
| Frequency response (-5 dB standard) | 110 Hz - 18 kHz |
| Frequency response (-5 dB CUT mode) | 150 Hz - 18 kHz |
| Max. sound pressure (1 m, free field) | |
| 16C with 10D/30D/40D/D6/D12/D40/D20/D80 | 122 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) | 100/500 W |
| Dispersion angle (h x v) | 90° x 40° |
| Components | 4 x 4" driver with neodymium magnet |
| | 1 x 0.75" compression driver mounted on CD horn |
| | Passive crossover network |
| Connections | 4-pin Phoenix Euroblock and 1 x NL4 M |
| | Phoenix plug type: MSTB 2,5/ 2-ST-5,08 |
| Pin assignment | Phoenix: 1: + / 2: - (3/4: n.c.) |
| | NL4 M: 1+/1- |
| Enclosure | Extruded aluminum, metal baffle and front grill |
| Weight | 5 kg (11 lb) |
| Mounting | Dual rail 8 mm T-slot profile at the rear |

The 16C loudspeaker



16C cabinet dimensions in mm [inch]

Architectural specifications

The 2-way passive column loudspeaker shall consist of four 4" neodymium drivers and a 0.75" compression driver mounted on a CD horn.

The HF horn shall have a nominal dispersion of 90° x 40° (h x v).

The 4" drivers shall be arranged in a unique cardioid setup radiating through waveguide elements at the front and damped ports at the rear of the cabinet and shall provide a broadband attenuation to the rear of the column of, on average, approx. 18 dB.

The loudspeaker cabinet shall be based on an extruded aluminum profile with a metal grill protecting the front of the loudspeaker.

Two continuous rails (8 mm T-slot profiles) shall be provided at the rear for attaching a wall mount bracket.

The connection panel on the back shall be recessed and fitted with a 4-pin Phoenix Euroblock terminal and shall allow a cross-section of up to 2.5 qmm / AWG 13.

In addition a NL4 M connector socket shall be provided.

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

The power handling capacity shall be 100 W RMS and 500 W peak (10 ms).

The frequency response (-5 dB) measured on axis shall be 110 Hz to 18 kHz with a maximum sound pressure of at least 122 dB.

The dimensions (W x H x D) shall not exceed 125 x 650 x 124 mm (4.9" x 25.6" x 4.9") and the loudspeaker shall weigh no more than 5 kg (11 lb).

The loudspeaker shall be the 16C by:
d&b audiotechnik GmbH & Co. KG.