Column Speaker UDA 2



- Suited for reverberant environments
- 90⁰ Vertical, 140⁰ Horizontal Coverage
- 50W Program
- Stylish and visually discreet design
- Extruded aluminium enclosure
- Low and High impedance available

Technical Specifications

Transducers:	2 x 2.75" Diameter
Nominal Impedance:	8 ohm
LF Minimum Impedance	8.9 Ohm @ 5158 Hz
RMS Power(1):	25W (28.3V rms)
Program Power(2):	50W
Peak Power(3):	100W (56.6V peak)
Sensitivity (2.83v @ 1m):	86 dB SPL
Peak SPL(4):	106 dB SPL
Frequency Range(5):	150Hz to 23kHz (-10dB) 170Hz to 20kHz (-6dB)
Recommended High Pass Filter:	Butterworth 24dB/Oct, 100Hz
Horizontal Coverage (-6dB):	140⁰
Vertical Coverage (-6dB):	90⁰
IP Rating:	IP65
Enclosure:	Aluminium
Grille:	Aluminium, water proof fabric backing
Connectors:	Barrier strip
Color:	Black or white.
Rigging:	Two wall mounting accessories: Wall 4V, +/-50⁰ horizontal & +/-30⁰ vertical. Wall 4H (indoors only): +/-50⁰ horizontal. No vertical tilt available.
Dimensions (HxWxD):	193 x 104 x 116 mm
Net Weight:	1.7kg, 3.7 lb
Included accessories:	Wall mounting accessories Wall 4V & Wall 4H
Optional accessories:	UDA 16 TL

(1) Based on a 2h power test run with pink noise, 6dB crest factor, IEC filtered
(2) Conventionally, 3dB higher than the RMS Power
(3) Corresponds to the crest factor for the test described in 1
(4) Calculated based on peak Power and sensitivity
(5) Free Field

Overview

The UDA 2 is a high output, full range, frequency shaded passive column speaker which provides voice intelligibility and musical clarity in acoustically challenging environments such as shopping malls, houses of worship, restaurants, congress halls, hotels, airports, train stations, swimming pools, conference rooms or museums, where reflective surfaces create a reverberant sound field.

Each unit features two 2.75" diameter transducers, 0.75" voice coil, in a closed box enclosure. It's sonic characteristics make the UDA 2 suitable to be installed in rooms with problematic sound reflections where vocal intelligibility is paramount.

The narrow extruded aluminium enclosure has been designed for a seamless visual integration in every venue and is available in black or white finish. The grille is also made of aluminium and internally covered with a protective water repellent fabric which prevents splashed water and dust from damaging the transducers, featuring thereby an IP 65 protection rating.

Two wall mounting accessories are included. Wall 4V allows the enclosure to be aimed up to +/- 50⁰ horizontally and up to +/- 30⁰ vertically. Wall 4H allows the enclosure to be aimed up to +/- 50⁰ sideways only.

The unit is connected through an input barrier terminal strip. Connections are protected by a metallic weather resistant cover featuring a cable gland on the bottom which prevents water or moisture from causing a shortcircuit.

The accessory UDA 16 TL (not included) allows for high impedance connection of the UDA 2. It houses a high quality 120Wrms@100V line transformer (60Wrms@70V) that makes it suitable for installations where long cables have to be deployed.

Tuning presets are available to enhance the frequency balance and intelligibility.

Dimensions

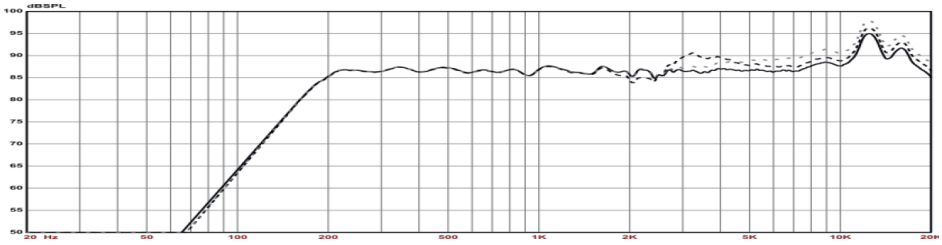


All dimensions in mm

Column Speaker UDA 2

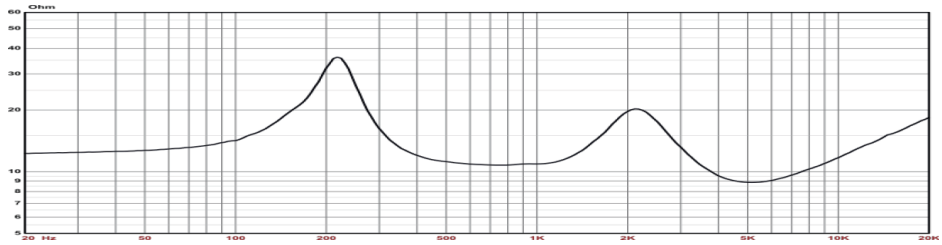
Frequency Response

On axis frequency response of one UDA 2 unit driven by a swept sine wave signal at an input level of 2.83v. Measured in an anechoic chamber at 3m, SPL scaled down to 1m. In order to provide a more detailed frequency response curve only a 1/6th octave smoothing has been applied. Black Dashed: No EQ. Black Solid: With recommended preset "UDA2F1V1". Grey Dotted: With recommended preset "UDA2Sh+3dBV1".

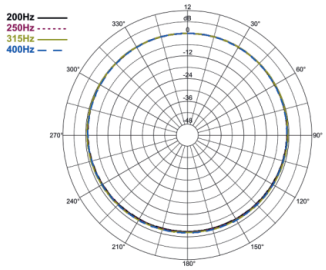


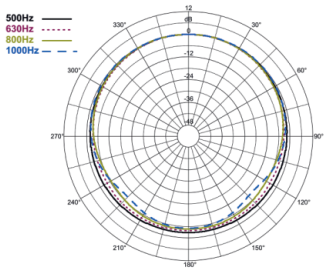
Impedance

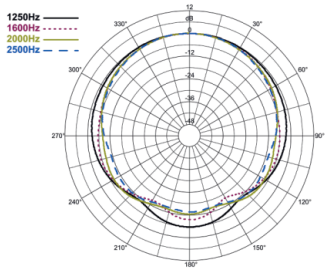
Impedance curve of one UDA 2 unit measured with a stepped sinusoidal signal. Frequency resolution is 1/24th octave. In order to provide better magnitude resolution at lower impedance values a logarithmic vertical scale has been used.

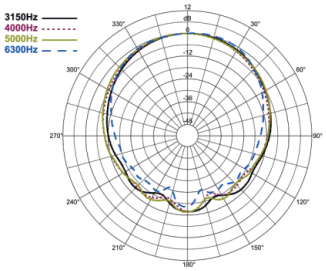


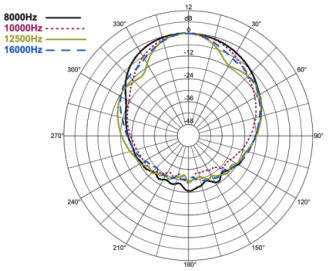
Horizontal 1/3 Octave Polar Response



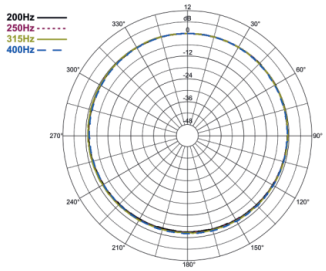


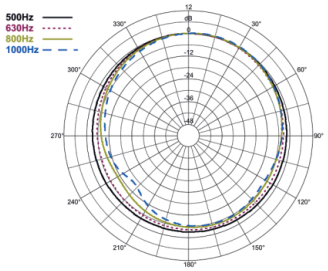


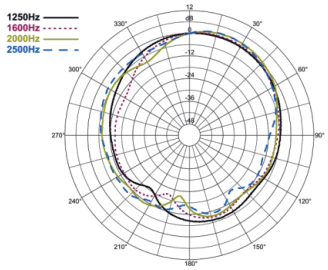


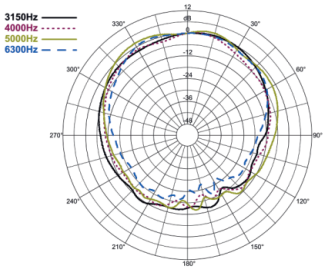


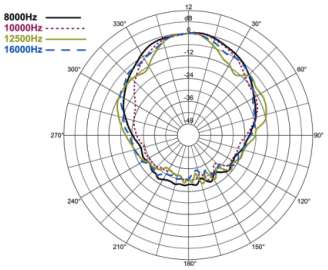
Vertical 1/3 Octave Polar Response (Left/Top Right/Bottom)











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