

Источники звука DELTA OHM HD2050

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HD2050 - Dodecahedron Loudspeaker

To test buildings acoustic insulation, it's necessary to use sound sources that meet the demands of specific technical ISO standards.

Delta OHM has developed a system for the measurement of passive acoustic performances of buildings that integrates the most advanced features required for this type of equipment.

The need for high noise excitation levels, necessary to deal with increasing insulation values of modern buildings, has been made co-exist with portability and versatility among the best on the market today.

HD2050 is a sound source composed of 12 speakers arranged in a dodecahedral chassis, capable of radiating high power sound energy in all directions with a directionality in accordance with ISO 3382.

The sound source can be integrated with the digital amplification system **HD2050.20**, which offers high power as well as providing an equalizer that adapts the system's response to any more specific measurement needs.

Features:

- According to ISO 140-3, ISO 3382, UNI 11367 (d.p.c.m. 5/12/97).
- Customizable user setup with user defined equalization when used with **HD2050.20**.

• High Power Level

With more than **120 dB (LIN)** re 1pW sound power level, the HD2050 can also be used for sound insulation measures where the signal/noise ratio in the receiving room becomes critical. The linear frequency range from **80 Hz** to **10 kHz** (1/3 oct) can easily cover the requirements of technical standards for the measurement of acoustic insulation of buildings. In addition the spectrum extension over canonical range 100 Hz ÷ 3150 Hz makes the system a perfect tool also for room acoustics measurements. The optional subwoofer HD2050.40 further improves power and response extension at lower frequency to cover specific applications in large volume rooms.

•Versatility of use with digital amplification

Power amplifier HD2050.20 incorporates a parametric equalizer that allows to change the emission spectrum of HD2050. With this tool, specific measurement needs can be easily satisfied, such as the need to concentrate more sound power in specific areas of the acoustic frequency spectrum. The software supplied with the power amplifier, allows to customize the frequency response and then store it, in order to be loaded and activated in the dodecahedron-amplifier system when needed.

•Lightness and portability

With a weight of only 9 kg and an outer diameter of 38.5 cm, the HD2050 is one of the lightest dodecahedron speakers on the market. HD2050.20 digital amplifier provides an output of more than 1000 W @ 12 ohm, and comes with an extremely rugged and lightweight flight case. The HD2050 system is designed for on site portability: the dodecahedron has a robust and ergonomic T shaped carrying handle.

Accessori

The system can be supplied with all the accessories useful for transport and correct on site positioning: extendable tripod with steering wheels **HD2050.1** (minimum height 1300 mm, maximum height 2050 mm), wireless remote control, flight-case for loudspeaker **HD2050-V**. For best performances, HD2050 should be driven with **HD2050.20** power amplifier (including wireless remote control **HD2050.20R**) and **HD2050.40** subwoofer to extend the frequency response down to 20 Hz.

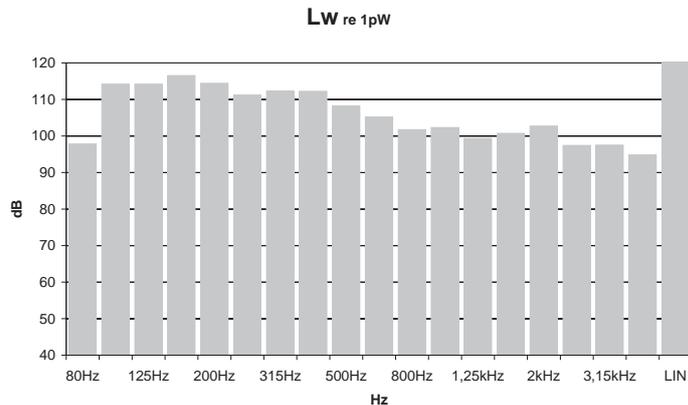
Applications:

- Sound insulation
- Sound absorption
- Reverberation time measurements
- Architectural acoustics
- Impulse response of rooms

Technical specifications	
Reference Standards	ISO 140-3: 2006 ISO 3382: 2001
Nominal impedance	12 + 12 ohm
Power	Peak 540 + 540 W Nom. 180 + 180 W
Loudspeakers	12 x 5"
Operating frequency range	80 Hz ÷ 16 kHz (1/3 oct. bands)
Connectors	Neutrik® NL4FC speakON
Sound power level	120 dB re 1pW (10 ⁻¹² W) or better
Dimensions	Diameter 385 mm
Weight	9 kg
Handling	T shaped handle - Flight-case

Note: Neutrik® is a registered trademark of Neutrik AG

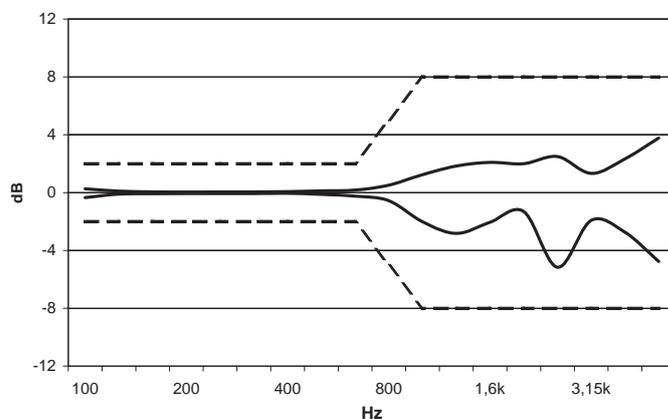
Typical Sound Power Level spectrum



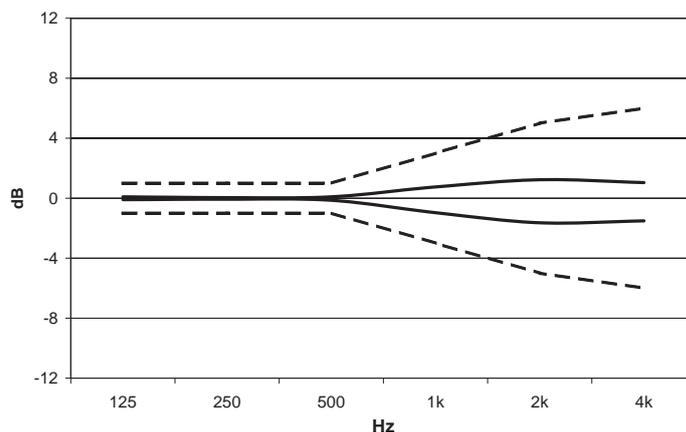
Directivity:

HD2050 meets the requirements of ISO 140-3 and ISO 3382. The diagrams of directional response measured in the horizontal plane in octave bands, show the ideally isotropic behaviour of HD2050. Below 1000 Hz the speaker has no significant directionality.

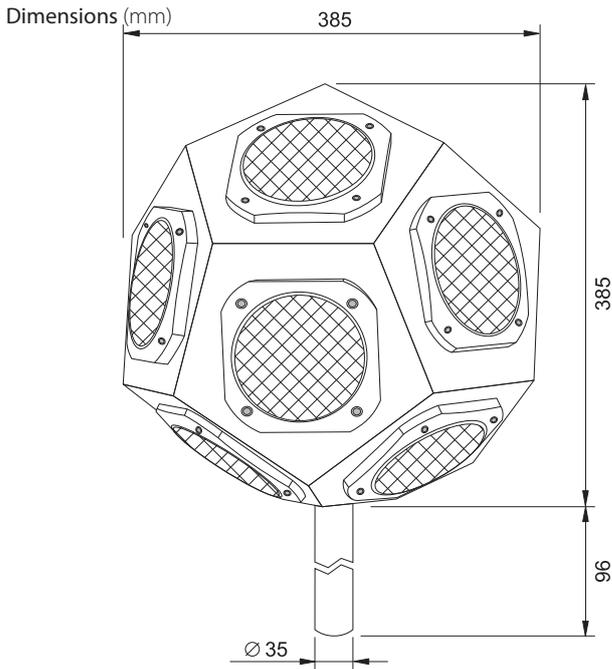
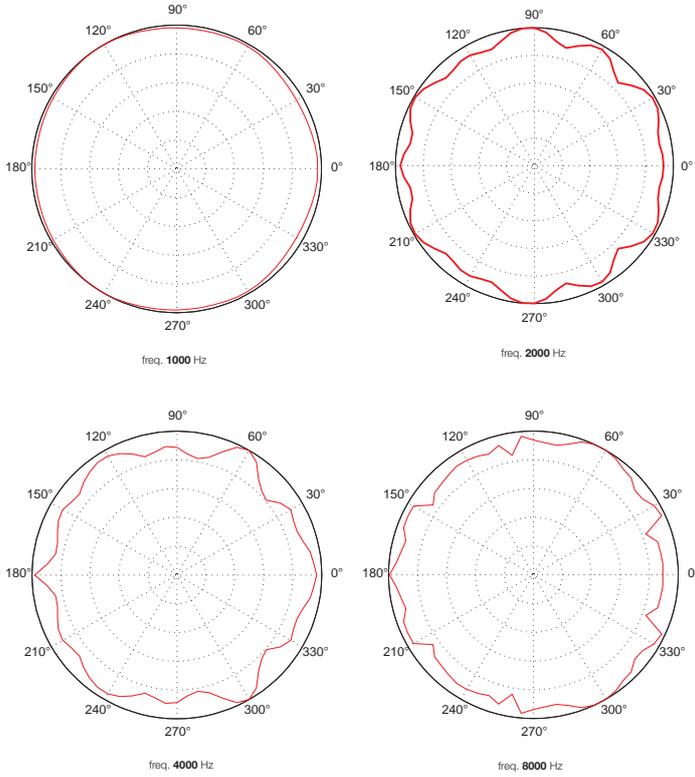
Directivity ISO 140



Directivity ISO 3382



Polar diagrams: 10 dB / div. – sectors 30°



ORDERING CODES

HD2050: dodecahedron complying with ISO 140-3 and ISO 3382 standards; supplied with signal cables HD2050.1.5, HD2050.1.L cable, instruction manual and carrying case (**HD2050V**).

Accessories

HD2050.1: stand for dodecahedron with wheels, retractable and extendible. Min height 1300mm, max height 2050mm. Damped rod.

HD2050.1.5: signal cable, length 5mt

HD2050.1.L: L-shaped signal cable/adaptor.

HD2050.20: digital power amplifier with equalizer. Supplied with flight-case, Podware software downloadable from Delta OHM website, HD2050.2 power supply cable, integrated radio remote control kit HD2050.20R and instruction manual.

HD2050.20R: remote control kit (spare part) consisting of receiver and transmitter with activation button. Transmission range 100 m.



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