

Software Podware: user defined frequency response equalization



Input

## HD2050.30 - Directional Sound Source for façade insulations

The façade passive directional loudspeaker **HD 2050.30** is the ideal tool to create a uniform sound field in front of a building.

**HD2050.30** provides not only the high output emission in a frequency range extended from 70 Hz to 20 kHz, which is necessary to minimize background noise contribution, but also a uniform sound distribution, especially at higher frequencies, which is guaranteed by the particular construction of the high frequencies driver. With this solution, phenomena of sound concentration due to the directionality of the normal transducers when used near the wall, are greatly reduced especially on the high range; measurement accuracy is therefore improved.

### Features:

- High Power Level**  
With a 129 dB spl, **HD 2050.30** loudspeaker allows to perform measurements on high insulated façade even in the presence of high background noise.
- Versatility**  
**HD 2050.30** directional loudspeaker can be easily positioned in the typical situations found during façade testing. A **specific support** is available for **45° positioning** both on the land and on the stand; with the latter system user can gain valuable meters in front of the façade, where often space is little. The weight of 13.5 kg is the right compromise between power emission and portability.
- Excellent diffusion of acoustic field at high frequency.
- Wireless remote control with HD2050.20 digital power amplifier.

### Applications:

- Façade sound insulation
- Sound absorption

### Technical specifications:

RMS Power	300 W
Nominal impedance	8 ohm
Loudspeakers	Low frequency 1 x 10" (neodimium magnet) High frequency 1 x 1" (Mylar®)
Emission	129 dB spl peak @ 1 m
Frequency range	70 Hz ÷ 20 kHz
Connectors	2x Neutrik® NL4 speakON
Dimensions	30.5 x 49 x 33.3 cm
Weight	13.5 kg
Carriage	Protective bag
Finishing	Geal-coat anti-scratch
Amplifier	To be combined with HD2050.20 digital power amplifier
Holder	Adjustable to 45° with hole for mounting on standard tripod HD2050.1

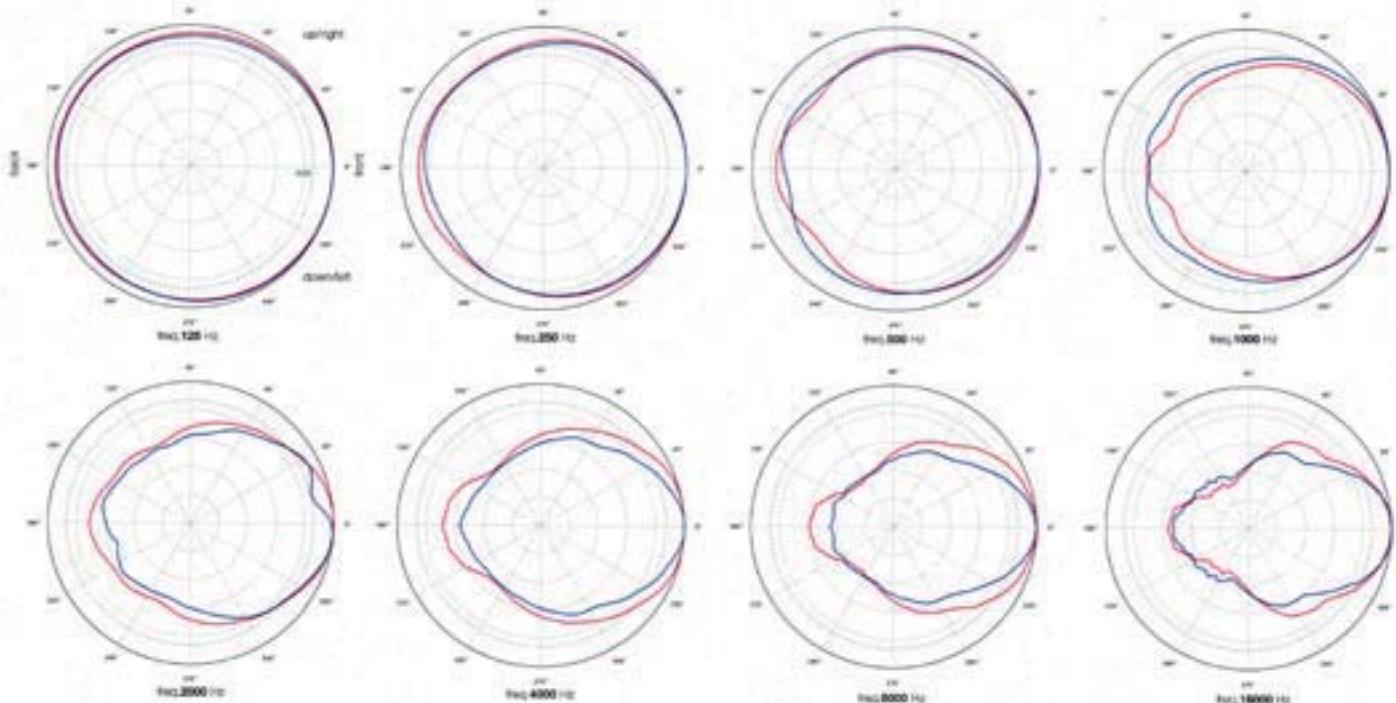
Note: Mylar® is a registered trademark of Dupont Teijin Films. Neutrik® is a registered trademark of Neutrik AG.



HD2050.30

## Directivity:

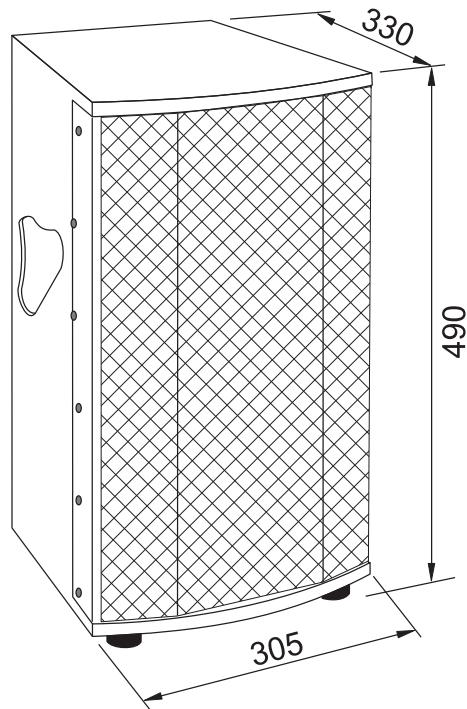
Polar diagrams by frequency referred to emission axis.



Polar diagram referred to axis:

- : horizontal
- : vertical
- - - : 10 dB/divided into 30° sections

## Dimensions (mm)



## ORDERING CODES

**HD2050.30:** Directional façade loudspeaker, user manual (Signal cable HD2050.1.5 not included).

## Accessories

**HD2050.30.1:** Protective bag for HD2050.30 loudspeaker.

**HD2050.30.2:** 45° adjustable holder. It allows to direct the loudspeaker to 45° and to hoist it on the HD2050.1 stand.

**HD2050.1:** Stand for HD2050 dodecahedron, with steering wheels, extensible and retractile. Minimum height 1300 mm, maximum height 2050 mm Damping of the extensible rod.

**HD2050.1.5:** Signal cable, length 5 m.

**HD2050.20:** Digital power amplifier with integrated parametric equaliser. Includes flight case, Podware software, power supply cable HD2050.2, integrated wireless remote control HD2050.20R, user manual.

## HD2050.40 - Subwoofer

**HD2050.40** passive subwoofer, is designed to work in conjunction with HD2050 dodecahedron. The system composed of HD2050.40 subwoofer, HD2050 dodecahedron and HD2050.20 digital power amplifier, allows to meet measurement requirements in the highest acoustic insulation situations.

Acoustic testing laboratories, high performance acoustic materials manufacturers, acoustic engineers with specific measurement needs or in general where it is needed a lot of sound energy at low and high frequency, they will find in this system a complete and effective tool.

## Features:

### • High performance materials Sound Insulation

A 130 dB SPL in the frequency range **45 Hz to 120 Hz** allows the subwoofer HD2050.40, combined with HD2050 dodecahedron and HD2050.20 digital power amplifier, to excite rooms in order to measure extremely high insulations at lower frequencies. HD2050.40 is the correct solution for laboratories with measurement requirements up to date with the development of high-performance insulating materials in construction and shipbuilding fields.

### • Large rooms architectural acoustics

**HD2050.40** subwoofer integrates HD2050 dodecahedron in applications where reverberation time measurement of high-volume environments is needed. In such environments, often the sound power and frequency extension characteristics of dodecahedron loudspeaker, are not sufficient to recreate a good diffuse sound field or even high sound pressure levels on the walls of large rooms. The measures in these sound field conditions can be unreliable, or heavily dependent on the need for a very low background noise. In these cases, HD2050.40 is the correct solution.

## Applications:

- High level sound insulation
- Sound absorption
- Large rooms reverberation time measurements

## Technical specifications:

RMS Power	500 W
Nominal impedance	4 ohm
Loudspeaker	LF 1 x 12" (neodimium magnet)
Emission	130 dB spl peak @ 1 m
Frequency range	45 Hz ÷ 120 Hz
Connectors	2x Neutrik® NL4 speakON
Dimensions	590 x 500 x 370 mm
Weight	22 kg
Finishing	Geal-coat anti-scratch
Amplifier	To be combined with HD2050.20 digital power amplifier

*Note: Neutrik® is a registered trademark of Neutrik AG.*