

HISOUND

HI QUALITY PARABOLIC MICROPHONES

USER GUIDE

1.3



HiSound: mono parabolic microphone

HiSound-Stereo: stereo parabolic microphone

HiSound parabolic devices implement a high quality microphones. Two version are available



HiSound mono

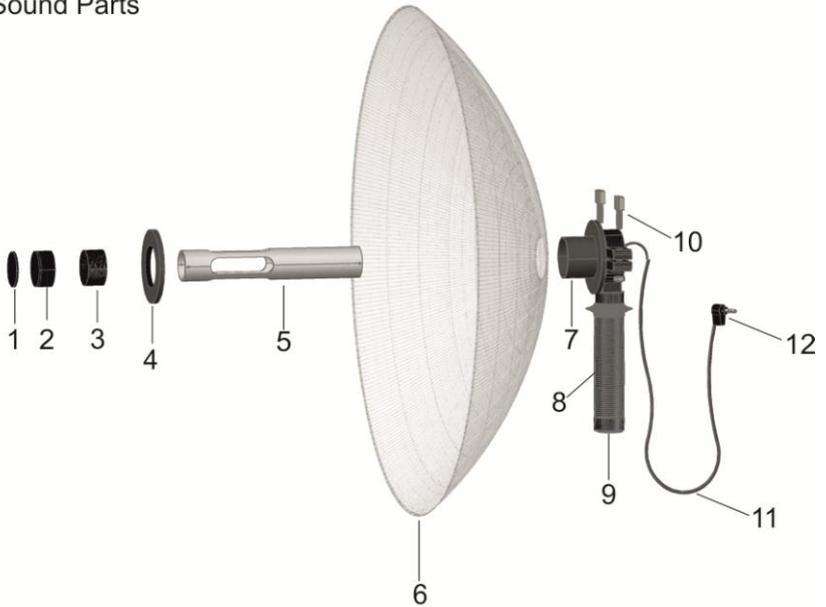
The signal is routed in a single stereo mini Jack 3.5 mm connector.
The four capsules are perfectly aligned with the outer edge of the dish.

The sensor comprises two high quality EM172 electret omni directional microphone sensors and two EM184 low noise Uni Directional microphone sensor PRIMO technology.



HiSound mono details

HiSound Parts



- 1 Cap spring
- 2 Microphone capsules *
- 3 Foam windscreen (supplied)
- 4 Ring to fix the dish
- 5 Main Microphone body
- 6 Dish PETG 1 mm (or 0,7 mm)
- 7 Connection tube and ring
- 8 Handle with high grade foam to allow grip and prevent noise
- 9 Tripod mount Whitworth integrated into Handle
- 10 Screws to fix Main Microphone body
- 11 Cable 1 meter
- 12 Stereo gold plated mini Jack 3,5 mm

* *Hisound 712: 2*em172 + 2*em184*



Parabolic microphone HiSound - by Dodotronic

HiSound Stereo

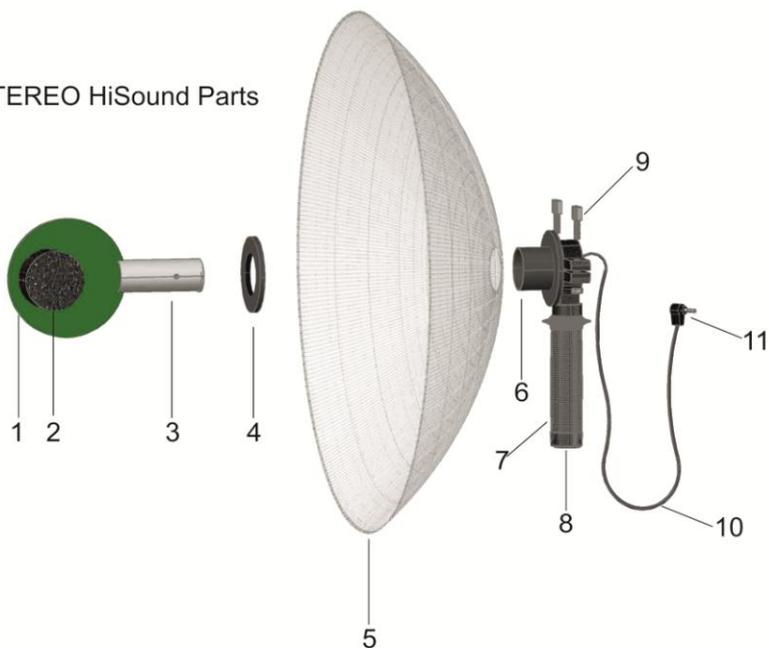
This parabolic microphone can capture sounds with a stereo separation, the signal is routed in a single stereo mini Jack 3.5 mm connector.

The stereo effect is given by the channels separation obtained by placing a separator disc (baffle) between two pairs of microphones, positioned to the left and right channels with two capsules for each channel. The dish is composed by two circuits with top and bottom shield; the same shield is tightly connected to ground of the four capsules so to minimize the immunity to external interferences.



Having two capsules instead of one allows to obtain a signal gain of approximately +3dB and a lower self inherent noise. Compared to traditional PZM the greatest improvement in HiSound stereo is done placing the capsule on the same plane with the baffle and not in opposite direction. This configuration can add additional signal gain of +6 dB. This trick allows a high frequency response more than the one obtained in traditional PZM system, in fact the capsule directed against the baffle constitutes an obstacle to the passage of low intensity sound wave.

STEREO HiSound Parts



- 1 Baffle for stereo separation
- 2 Foam microphone caps* windscreen (supplied)
- 3 Main Microphone body
- 4 Ring to fix the dish
- 5 Dish PETG 1 mm (or 0,7 mm)
- 6 Connection tube and ring
- 7 Handle with high grade foam to allow grip and prevent noise
- 8 Tripod mount Whitworth integrated into Handle
- 9 Screw to fix Main Microphone body
- 10 Cable 1 meter
- 11 Stereo gold plated mini Jack 3,5 mm

* Hisound STEREO 2+2 Primo Em172 microphone caps



Parabolic microphone HiSound - by Dodotronic

PORTABILITY

The dish is made in PETG and can be folded.



SPECIFICATIONS

Outer diameter 53 cm

Focus depth 12.5 mm

Option:

	HiSound mono	HiSound Stereo
Weight for 0.7 mm*	230 g	230 g
Weight for 1 mm*	340 g	340 g
Total weight for 0.7 mm*	665 g	715 g
Total weight for 1 mm*	775 g	825 g

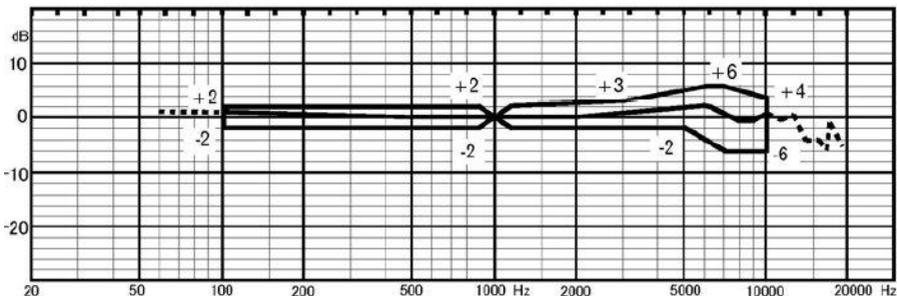
* = tickness of the dish

Material **PETG**

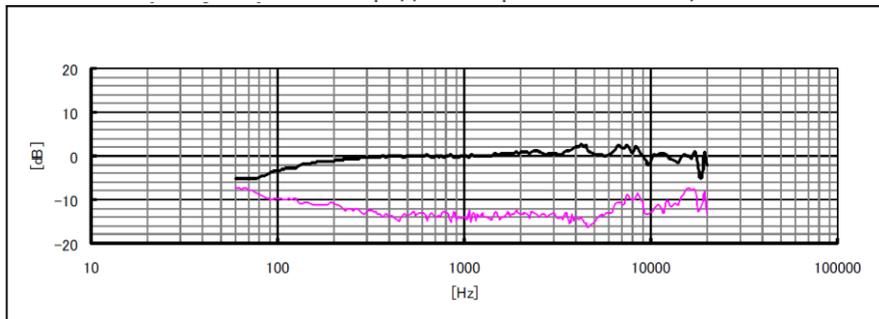
Audio range (100Hz - 20KHz)

Sensor: 2 x EM172 from <http://www.primomic.com/>

SNR 14dB



Sensor: 2 x EM184 from <http://www.primomic.com/>



The lower sensitivity of EM184 capsules allows to record a file about-9dB lower than EM172 caps.

In this way it's possible to recover the recordings when clipping in the more sensitive channel.

Focus 13 cm border aligned.

Connector: mini jack 3.5 mm golden plated

PIP plug in power supply.

Windscreen not included.

Custom configuration on request.

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