

HI-SOUND COMPACT

PARABOLIC MICROPHONE

High-quality, very low-noise audio parabolic microphone

USER GUIDE

0.2





Overview

Hi Sound Compact is the first professional handheld stereo parabolic microphone specifically designed for wildlife audio recording.



Hi-Sound Compact comes from its big brother Hi-Sound DR, a larger parabolic microphone intended to be used by biologists and wildlife enthusiasts.

Shotgun microphones are designed to be extremely directional in order to block out sound coming from the sides; however, they do not perform as well as parabolic microphones in terms of amplification and background noise.

Each naturalist recorder carries their own recorder and a parabola in opposite hands. There will be too much equipment to carry while making a movie, and managing a big parabola is typically difficult.

The goal was to design something that would free up your hands so that you could concentrate and begin your film.

Hi-Sound Compact aims to record the inaudible sounds of animals in stunning quality and with little noise.

The following are some application areas:

- Recording of wildlife
- Sporting events
- Investigation
- Industrial surveillance

Hi-Sound Compact is derived from its bigger parabolic microphone big brother Hi-Sound DR, which is intended for use by biologists and wildlife lovers.

It has undergone years of research, development, and prototypes before becoming operational.

The Hi-Sound Compact may be used with your camera directly mounted using the flash mount and the jack stereo connection inserted into the camera's microphone input.

Furthermore, you can use it in standalone mode, connecting directly to a tripod mound.

A robust bespoke casing that can house all the components and ensures shock protection with internal foam has also been developed to safeguard the microphone while it is in your possession.

There are two excellent microphonic capsules which has the best signal-to-noise ratio in its class at just 80dB.

The two capsules are delivered as a calibrated matched pair in order to obtain the optimal balance between the left and right channels.

Both capsules are positioned on the opposite side of the apparatus and are pointed at the reflector's centre.

Conveniently, there's no need for batteries, with the device running on plug in power, directly from the recorder with a minimum energy requirement.

The Hi-Sound Compact can also be mounted on a tripod for static application in unattended mode.

The stereophonic effect gives an immersive surround in every natural environment with each sound localised in its own spatial position.

- The shape and colour are designed so that the device is virtually invisible
- The reflectors are made of polycarbonate which gives the perfect combination of strength, flexibility, and transparency.
- All the components are lightweight with a total weight of only 300g.
- The windshield greatly reduces wind interferences in harsh environments.



Specifications

Outer diameter 35 cm

Focus depth 7 cm

Weight: 300g

Disc Material **polycarbonate**

Audio range (150Hz – 20KHz)

Dimensions when collapsed:

33 x 14 x 8 cm

AOM-5024

Sensor: AOM-5024 from <http://www.primomic.com/>

Sensitivity: $-24 \pm 3\text{dB}$ @ 1kHz

Rated Voltage: 3V

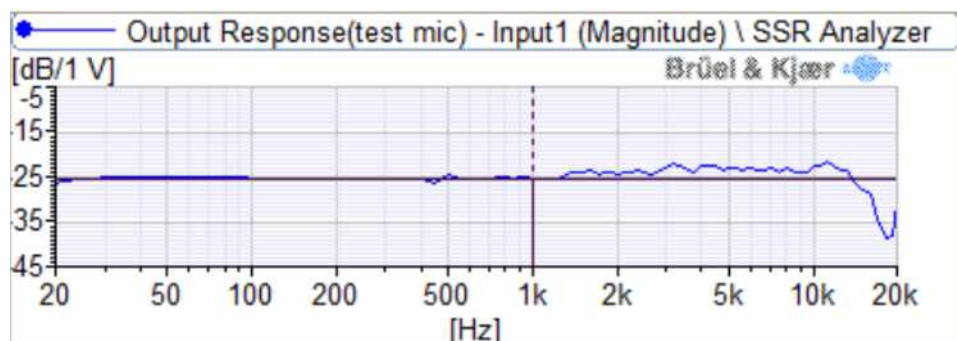
Output impedance @ 1kHz: 2,2 k Ω

Current consumption:(3VS with 2.2 k Ω RL) 500 μA

Signal-to-Noise Ratio:(1kHz, 94 dB input, A-weighted) 80 dB

Operating Voltage Range 1 ~ 10 VDC

Maximum SPL Input (THD<3%) 110 dB

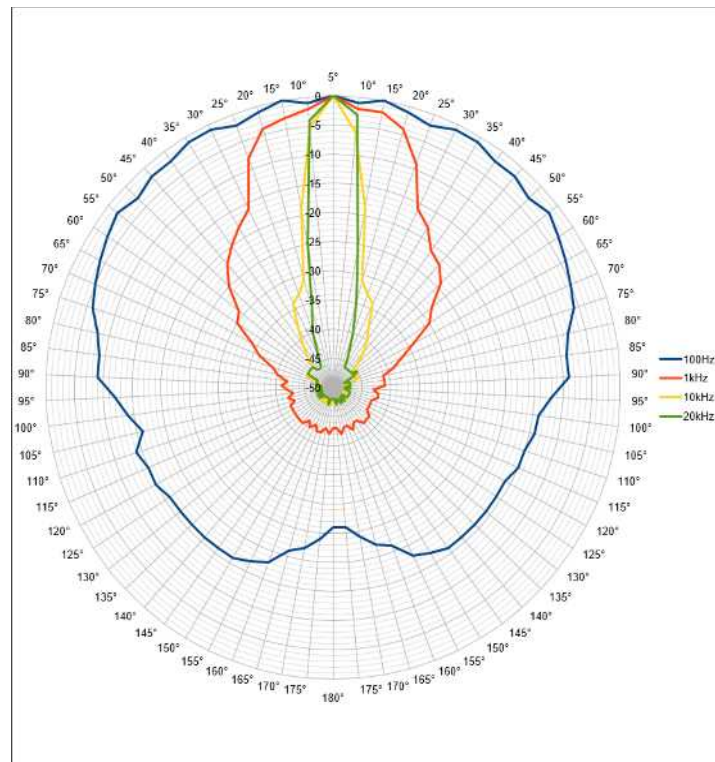


Features:

- 9.7mm diameter
- 5mm height
- -24 dB sensitivity
- 80 dB signal-to-noise ratio
- True 20 Hz to 20 kHz performance

Specifications

Parameters	Values	Units
Sensitivity (1 kHz @ 50cm) 0 dB=1V/Pa	-24 ±3	dB
Rated Voltage	3	VDC
Output Impedance (@ 1 kHz)	2.2	kΩ
Current consumption (3VS with 2.2 kΩ RL)	500	μA
Signal-to-Noise Ratio (1kHz, 94 dB input, A-weighted)	80	dB
Decreasing Voltage (3VS to 2VS)	-3	dB
Frequency Range	20 ~ 20,000	Hz
Operating Voltage Range	1 ~ 10	VDC
Maximum SPL Input (THD<3%)	110	dB
Directivity	Omni-directional	-



Polar plot

Conformity declaration

model: Hi-Sound Compact

In conformity with the protection and compliance requirements of the following EC Directives:

- EM 55011
- EN 61326-1
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-8

Technical assistance and support

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