



The 3DIO Omni Pro binaural microphone consists of 4 pairs of ears, each pointed at 90 degrees from the adjacent pair to provide a single point, 4-position binaural perspective of any audio environment.

Each of the OMNI's 8 prosthetic ears contains a matched 5.4mm diameter DPA 4060BU hi-sensitivity microphone capsule. These capture stereo binaural audio from 4 different directions - 0, 90, 180, and 270 degrees - corresponding to the 4 different binaural angles (ear pairs) around the microphone and capture sound just as we would naturally hear it and enable you to pinpoint the sound location in space.

A simple volume control script (available by download) allows synchronizing the Omni binaural audio to a 360 video during playback.

The Free Space delivers portable, professional quality binaural in the palm of your hand.

SeeSense are able to provide full technical assistance and back up for this microphone.

Contact SeeSense for further details and for accessory options.

FREE SPACE BINAURAL MICROPHONE

Specifications:

- True binaural capture from omnidirectional patterned capsules
- Realistic human ear pinnae for life-like attenuation and amplification from all directions
- Low susceptibility to RFI
- 100dB dynamic range
- High sensitivity and ultra low noise
- Compact design - ideal for field recording
- Rugged aluminum chassis
- Performs well over a wide range of temperature and humidity conditions
- **Requires** 4 x 5-pin XLR with balanced output for output and phantom power
- **Cable example : Rode NT4-DXLR**
- Comes standard with a removable 5/8" microphone stand adaptor
- 1/4"-20 female tripod or hot-shoe adaptor mount

Applications Include:

- Full 360° professional audio
 - Perfect for 360 VR
- Filmmaking for spacial relevance & acoustic immersion
- Video applications with professional audio experience
- Complex audio environments
- Natural history filmmaking, etc



Other 3DIO microphones include:

- Free Space
- Free Space XLR
- Free Space XLR PRO II
- Omni

Rev: 1.029.1218 E&OE

Specifications:

Directional Pattern	Omnidirectional
Cartridge Type	Pre-polarized condensor
Frequency Range	20 Hz - 20kHz
Frequency range, ± 2 dB	Soft boost grid: 20 Hz - 20 kHz, 3 dB soft boost at 8 - 20 kHz. High boost grid: 20 Hz - 20 kHz, 10 dB boost at 12 kHz
Sensitivity	20 mV/Pa; -34 dB re. 1 V/Pa nominal, ± 3 dB at 1 kHz
Signal / Noise Ratio	71 dB (A)
Total Harmonic Distortion (THD)	< 1% THD up to 123 dB SPL peak < 1% THD up to 120 dB SPL RMS sine
Dynamic Range	Typ. 100 dB
Max. SPL, peak before clipping	134 dB
Output Impedance	30 - 40 Ω
Microphone	8 x Matched DPA 4060BU hi-sensitivity capsules. 5.4mm diameter



Specifications: Continued

Output	4 x 5-Pin XLR balanced phantom powered connectors. Each connector is associated to the ears' respective L and R.
Operating Voltage	Min. 5 V - max. 50 V. 48 V phantom power ± 4 V for full performance
Power	4 x 5-pin XLR inputs for phantom power
Body Material	Aluminium
Ears	Silicon
Mounting	Removable 5/8" Microphone stand adapter OR 1/4"-20 female thread
Dimensions	197 x 197 x 130mm (WxHxD)
Weight	1640 grammes
Working Temp.	-40 ~ +45° C
Relative Humidity	Up to 90%

Accessories

- Professional Wind Muffs
- Windy Space Ear Muffs
- Camera and Audio Recorder Hardware Mounting Bracket
- Grip Handle

If you have a specific requirement please contact SeeSense for advice.



Rev: 1.029.1218 E&OE