AMBIMIK-1

miniDSP

Features
- First Order Ambisonic Microphone
- Multichannel USB audio
- 32bit 44.1~192kHz recording
- Low noise capsules
- Binaural VST plugin powered by Dirac Research

Hardware
- Multicore XMOS USB audio
- 32-bit ADC Converters, 120dB DR
- 14mm low noise capsule
- Max 127dB SPL

Software
- USB 2.0 interface
- Plug & Play for Win/Mac/Linux/ Android
- 32/64bit VST plugin

Introducing **ambiMIK-1**, an affordable First Order Ambisonic (FOA) microphone with embedded preamp, Analog to Digital converters (ADC) and USB processor. This compact solution enables high sample rates (up to 32bit/192kHz) in a portable package. With applications ranging from VR/AR & music recording, it doesn't require any bulky external preamp and XLR cables. A simple USB cable to your tablet/laptop and you're ready to go!

With its 4 low noise 14mm capsules, its slim aluminum body and nylon protective frame, the ambiMIK-1 package was engineered for durability and optimal performance without breaking the bank.

Last but not least, miniDSP partnered with Dirac Research for the design of a VST plugin specifically calibrated for the ambiMIK-1 with over 1200 measurements. The controls include Yaw/Pitch/Roll/Output gain and Output Format (B format or Binaural).

SYSTEM DIAGRAM

Features and specifications are subject to change without prior notice

HARDWARE SPECIFICATIONS

Item	Description
USB Audio Controller	XMOS 500MHz multicore processor
ADC	32bit ADC with embedded PGA for up to 60dB analog gain 120dB SNR, Gain control via Mac/Win application
Capsules	4 x Low noise cardioid capsules, 14mm pre-polarized condenser Max SPL: 127dB SPL Self Noise: 16dB SPL A format layout: Ch1 - Front Left Up (FLU), Ch2 - Front Right Down (FRD), Ch3 - Back Left down (BLD), Ch4 - Back Right Up (BRU)
Connectivity	USB 2.0 streaming 32bit / Selectable sample rate 44.1kHz to 192kHz
Software	VST plugin (Mac/Win) Powered by Dirac Research Uniquely calibrated for ambiMIK-1 Selectable output: B format or Binaural Controls: Output gain, Yaw, Pitch, Roll
USB Audio	Linux/OSx/Android Driverless ASIO compatible driver for Windows iOS support with USB camera adaptor
Accessories	1 x miniTRIPOD with microphone clamp 1 x windjammer 1 x USB 2m long usb cable
Dimensions (W x D) / Weight	42 x 213 mm, 13g
Construction	Aluminum body with plastic microphone holder

MECHANICAL SPECIFICATIONS

LED

4 x Cardiod capsules

213mm

42mm