Echo AIO-A1

Multichannel Acoustic Test Interface

The **Echo AIO-A1** is a multichannel acoustic interface built for production-line testing and QA/QC verification. Combining two 10W amplifier outputs and four mic/line analog inputs in a single unit, the AIO-A1 is an integrated, cost-effective, and reliable high-throughput audio test solution.
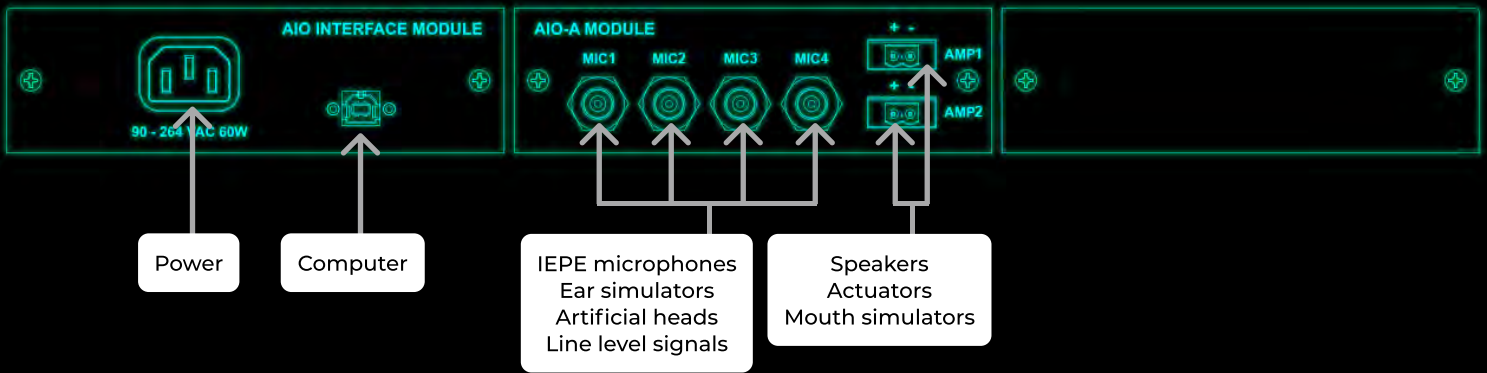
Each input can be individually configured as a line level input or as a measurement microphone input. Microphone inputs include an IEPE microphone conditioning amplifier with integrated constant current power supply (CCP).

The AIO-A1 presents a standard USB audio sound card interface and is compatible with most audio test software including APx500 Flex, LabVIEW, SoundCheck, and ARTA.

If you need more input or output channels, check out the Echo AIO-A2

ECHO
TEST + MEASUREMENT

Power · Computer · IEPE microphones / Ear simulators / Artificial heads / Line level signals · Speakers / Actuators / Mouth simulators

AIO-A1 SPECIFICATIONS

Mic / Line Inputs

Input impedance	1 MΩ
Input gain	1x, 10x, and 100x
Full-scale input voltage (1x gain)	8.75 Vpk
Maximum input voltage	15 Vpk (do not exceed)
Dynamic range (1x gain, A-weighted)	> 110 dB
THD+N (1x gain, A-weighted)	< -95 dB (20 Hz – 20 kHz)
Frequency response	±0.5 dB (20 Hz – 20 kHz)
Constant current supply	4 mA, 21 V excitation voltage
TEDS	IEEE 1451.4 Class 1

Amplifier Outputs

Output power (THD+N < .1%)	10 W continuous at 1 kHz
Maximum output voltage	13.5 Vpk
Frequency response	±0.5 dB 20 Hz – 20 kHz

Interface

Sample rates	48 kHz, 96 kHz, and 192 kHz
USB	USB 2.0 audio class compliant
Supported operating systems	Windows 7 or later, macOS
Audio APIs	ASIO, WASAPI, CoreAudio
AC power	Universal power supply, 90 - 264 VAC at 50 or 60 Hz

Dimensions and Weight

Single unit	17.5" (44.4 cm) x 8.75" (22.2 cm) x 1.75" (4.4 cm), 7.2 lbs (3.3 kg)
Single unit boxed with cables	21" (53 cm) x 10" (25.4 cm) x 5" (12.7 cm), 8.75 lbs (4 kg)
Shipping carton (6 AIOs)	22" (55.8 cm) x 22" (55.8 cm) x 17" (43.1 cm), 59.5 lbs (27 kg)