

# Audio Analyzer A3

## Ideal Model for Hearing Aid Production Line Testing

Specifically designed to meet the testing requirements of hearing aid production lines, A3 provides the specified measurement items for hearing aid production lines and the necessary input/output interfaces, while maintaining the high performance and reliability of the equipment. It supports a .NET function library that can automatically execute the tests described in IEC60118-7 and ANSI S3.22. For production environments, these functions can be called from any .NET-supported language or LabVIEW to control the output and measurement settings of A3.

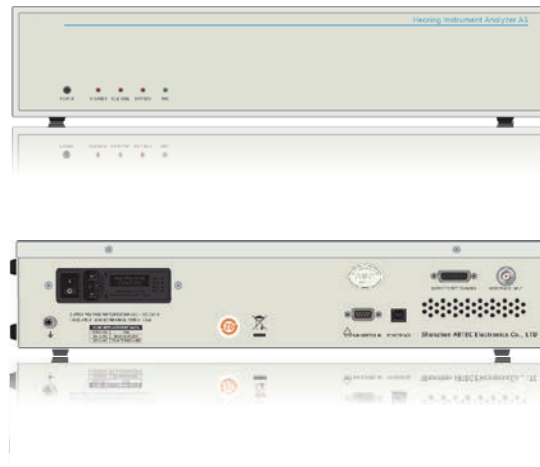
### Performance Indicators

Speaker Output	
Maximum Output	2W RMS into 8Ω (100Hz-10kHz BW)
THD+N	-80dB @2W / 8Ω (100Hz-10kHz BW)
Frequency Response	±0.1 dB (100Hz-10kHz)
Amplitude Accuracy	±0.03 dB (+15° C to +30° C)
Frequency Accuracy	3ppm

Coil Output	
Maximum Output	100mA RMS up to 20Ω (100Hz-10kHz BW) (400 mA/m field strength in Interacoustics TBS25)
Total Harmonic Distortion	-80dB @ 100mA into 1Ω (100Hz-10kHz BW)
Frequency Response	±0.1 dB (100Hz-10kHz)
Frequency Accuracy	3ppm

Battery Simulator	
Maximum Current	30mA
DC Output	Range: 0-2V; Resolution: 0.5mV; Accuracy: ±(1%+10mV)
Output Impedance	4.3Ω
Current Measurement	Range: 0-30mA; Resolution: 10μA; Accuracy: ±5%

Microphone Input	
Connector Type	BNC (includes a constant current power supply for standard pre-polarized measurement microphones, and CCP can also be disabled when using an external microphone power supply)
Power	24V DC constant current
Maximum Input	8.5Vrms (equivalent to 151dB SPL at mic sensitivity of 12.5mV/PA)
Residual Noise	< 1.3μV (equivalent to 20dB SPL at mic sensitivity of 12.5mV/PA)
Frequency Response	±0.03 dB (100 Hz 20 kHz)



### Key Features

- ▶ Fully benchmarked against APx511B from AP
- ▶ Code-free automation and complete API
- ▶ Automated programs meeting IEC 60118-7 and ANSI S3.22
- ▶ Transfer function for measuring the complex frequency response of DUT under any broadband signal
- ▶ Built-in test speaker, pickup coil, and microphone
- ▶ Supports logarithmic sweep sine and linear frequency modulation signals for open-loop testing
- ▶ Universal software platform

### Options

Perceptual Audio Test Option	AX-POLQA2
Perceptual Audio Test Option	AX-PESQ
Speech Transmission Test Option	AX-STIPA

### General Specifications

Dimensions (W × D × H)	430mm*385mm*89mm
Weight	7.12kg
Operating Voltage (AC)	220V, 50Hz / 100-240V, 50-60Hz





Company Website

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