

Audio Analyzer A1DD

Low-Cost Solution Ideal for Rapid Production Line Testing

A1DD is a high-performance audio analyzer developed for rapid production line testing. Combining testing speed, accuracy, code-free automated testing, and ease of use, it can complete all key audio index tests in a short period.



Performance Indicators

System Performance

Residual THD+N (20kHz BW)	-106dB
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Signal Source Indicators

Sine Wave Frequency Range	2 Hz to 80.1 kHz
Frequency Accuracy	3 ppm
IMD Test Signals	SMPTE, MOD, DFD
Maximum Output Amplitude (Balanced)	16 Vrms
Amplitude Accuracy (1kHz)	±0.05dB
Amplitude Flatness (20Hz-20kHz)	±0.01 dB
Analog Output Configuration	Balanced & Unbalanced
Maximum Digital Output Sampling Rate	216kHz
Sampling Accuracy	3ppm
Bit Depth	8-24 bit
Dolby/dts Signal Source	Yes (Pre-encoded Files)

Analyzer Indicators

Maximum Rated Input Voltage	230 Vpk
Maximum Bandwidth	90kHz
IMD Test Functions	SMPTE, MOD, DFD
Amplitude Accuracy (1kHz)	±0.05dB
Amplitude Flatness (20Hz-20kHz)	±0.01 dB
Residual Input Noise (20kHz BW)	1.4μV
Independent Harmonic Analysis	d2-d10
Maximum FFT Length	1.2M points

DC voltage measurement is supported

Key Features

- ▶ Fully benchmarked against APx515B from AP, with input voltage extended to 230Vpk
- ▶ Analog dual-channel input/output
- ▶ Support for SPDIF/TOSLINK/AES/EBU/ASIO digital interfaces
- ▶ Comprehensive testing within 3 seconds without any programming
- ▶ Intuitive user interface supporting one-click testing
- ▶ Support for VB.NET, C#.NET, comprehensive LabVIEW drivers, and Python
- ▶ Support for footswitch or barcode scanner to control the instrument
- ▶ Support for engineering file sharing
- ▶ Create custom test reports using MS Word or the instrument's user interface
- ▶ Advanced measurement library including IMD, MOL, dynamic range, FFT, and more

Options

Electroacoustic R&D Test Option	AX-SPK-RD
Electroacoustic Production Line Test Option	AX-SPK-PT
Perceptual Audio Test Option	AX-PESQ
Perceptual Audio Test Option	AX-POLQA2
Speech Transmission Test Option	AX-STIPA

General Specifications

Dimensions (W × D × H)	430mm* 308mm* 89mm
Weight	6.2kg±0.2kg
Operating Voltage (AC)	220V,50Hz/100V-240V,50Hz-60Hz



Call to Actions

More details <https://www.doewe.com> — 01



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