

Audio Analyzer A5

High-Precision Laboratory Testing Solution



A5 is a high-performance analog 2-channel audio analyzer developed by Aiputec, fully benchmarked against APx525 from AP Company. In addition to its ultra-high system performance, it provides a series of test plugins to expand testing capabilities and supports multiple digital interfaces (BT/I2S/HDMI/PDM/ADIO/AMC/A2B, etc.), making it the preferred testing equipment for R&D stages of consumer audio and automotive electronics audio-video products.

Performance Indicators

System Performance	
Residual THD+N (20kHz BW)	-108dB

Signal Source Indicators	
Sinusoidal Frequency Range	0.1 Hz to 80.1 kHz
Frequency Accuracy	3 ppm
IMD Test Signals	SMPTE, MOD, DFD
Maximum Output Amplitude (Balanced)	21.21Vrms
Amplitude Accuracy (1kHz)	±0.03dB
Amplitude Flatness (20Hz-20kHz)	±0.008 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	300Vrms
Maximum Bandwidth	90kHz
IMD Testing Functions	SMPTE, MOD, DFD
Amplitude Accuracy (1kHz)	±0.03dB
Amplitude Flatness (20Hz-20kHz)	±0.008dB
Residual Input Noise (20kHz BW)	1.3μV
Independent Harmonic Analysis	d2-d10
Maximum FFT Length	1.2M points
DC Voltage Measurement	



关键特性

- ▶ Fully benchmarked against APx525 audio analyzer from AP Company
- ▶ Standard support for SPDIF/TOSLINK/AES/EBU digital interfaces
- ▶ Supports digital interface extensions including BT/HDMI/I2S/PDM/ADIO/AMC/A2B, etc.
- ▶ Complete and powerful electro-acoustic analyzer functions
- ▶ Up to 60 testing functions, including oscilloscope, spectrum analyzer, continuous fast scanning, etc.
- ▶ Code-free automation and comprehensive API interfaces
- ▶ Supports Lab VIEW, VB.NET, C#.NET, Python
- ▶ Automatically generates test reports in various formats
- ▶ Supports Dolby & DTS digital stream playback

Options

Bluetooth R&D Interface Option	AB-BT-DUO
PDM Interface Option	AB-PDM/PDM16
DSIO Interface Option	AB-DSIO
HDMI Interface Option	AB-HDMI2+eARC
Advanced Digital Interface Option	AB-ADIO
Advanced Master Clock Option	AB-AMC
Audio Bus Interface	AB-A2B
High-Performance Option	AB-AG52/BW52
Perceptual Audio Test Option	AX-PESQ/POLQA2
Speech Transmission Test Option	AX-STIPA

General Specifications

Dimensions (W×D×H)	480mm*522mm*153mm
Weight	8.2kg±0.5kg
Operating Voltage (AC)	220V,50Hz/100V-240V,50Hz-60Hz



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