

Audio Analyzer A7

High-performance Signal Source and Multi-channel Audio Simultaneous Testing



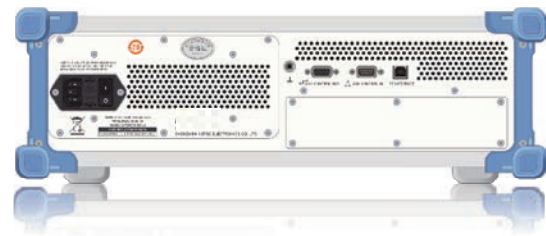
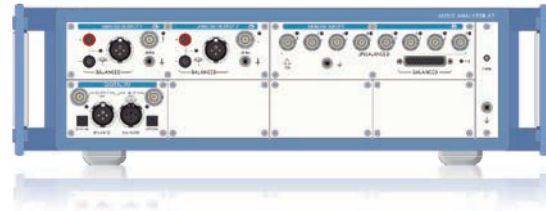
A7 is an audio analyzer with flexible input/output interfaces, supporting 2-channel analog output, 8-channel input, and expansion of multiple digital interfaces (BT, I2S, HDMI, PDM/ADIO/AMC/A2B). It is the preferred testing device for multi-channel audio products. The 2-channel analog output feature provides higher performance and output amplitude to meet the high input requirements of DUT.

Performance Indicators

System performance	
Residual THD+N (20kHz BW):	-103dB

Signal Source Indicators	
Sinusoidal Frequency Range	5Hz to 80.1kHz
Frequency Accuracy	3ppm
IMD Test Signals	SMPTE, MOD, DFD
Maximum Output Amplitude (Balanced)	14.4Vrms
Amplitude Accuracy (1kHz)	±0.05dB
Amplitude Flatness (20Hz-20kHz)	±0.008dB
Analog Output Configuration	Balanced & Unbalanced
Maximum Digital Output Sampling Rate	216kHz
Sampling Accuracy	3ppm
Bit Depth	8-24bit
Dolby/dts Signal Source	Yes (Pre-encoded Files)

Analyzer Indicators	
Maximum Rated Input Voltage	160Vpk
Maximum Bandwidth	90kHz
IMD Testing Functions	SMPTE, MOD, DFD
Amplitude Accuracy (1kHz)	±0.05dB
Amplitude Flatness (20Hz—20kHz)	±0.008dB
Residual Input Noise (20kHz BW)	1.3μV
Independent Harmonic Analysis	d2-d10
Maximum FFT Length	1.0M points
DC Voltage Measurement	



Key Features

- ▶ Fully benchmarked against APx586 audio analyzer of AP Company
- ▶ Standard support for SPDIF/TOSLINK/AES/EBU digital interfaces
- ▶ Support for digital interface extensions such as BT/HDMI/I2S/PDM/ADIO/AMC/A2B
- ▶ Code-free automation and comprehensive API interfaces
- ▶ Complete and powerful electroacoustic testing functions
- ▶ Universal software platform
- ▶ Support for multi-channel audio simultaneous testing, including:

Testing channel separation or phase difference for one-to-many or many-to-one

Testing maximum power over time for all channels

Combined with channel switching, up to 192 test channels can be achieved

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
Perceptual Audio Testing Option	AX-PESQ/POLQA2
Speech Transmission Testing Option	AX-STIPA

General Indicators

Dimensions (W×D×H)	480mm*522mm*153mm
Weight	8.5kg±0.5kg
Operating Voltage (AC)	220V,50Hz/100V-240V,50Hz-60Hz



Call to Actions

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



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