Audio Precision

APx Series | AUDIO ANALYZERS

The APx series of audio analyzers represents the state of the art in audio test, with models and options to suit every need from research and design to high-speed production. Flexible software brings a new multi-mode UI, with Sequence Mode providing pre-defined measurement sequences to enable fast and reliable testing, and Bench Mode providing an interactive, real-time interface to enable rapid investigation of audio design problems. Industry-leading analog performance, plus a wide range of digital I/O and software options, make APx the most powerful and versatile series of instruments we've ever produced.

APx555 High-performance, modular 2-channel audio analyzer

Our highest performance audio analyzer. The APx555 has the lowest THD+N in the world, advanced digital measurements and support for all APx digital I/O options.

APx58x 8- and 16-channel modular audio analyzers

Ideal for multichannel devices, the APx58x offers 8 or 16 analog channels with support for all APx digital options.

APx52x Modular 2- and 4-channel performance audio analyzers

The APx52x is a flexible, high performance 2- or 4-channel analyzer with support for high-performance analog options and all APx digital options.

ACCESSORIES

All APx analyzers support AP Switchers for up to 192 analog channels in and out, the AP DCX-127 Multifunction Module for DC and resistance measurements, and programmable DC bi-polar DACs.

SOFTWARE OPTIONS

SPK-PT	Loudspeaker Measurements for Production
SPK-RD	Loudspeaker measurements for R&D (includes SPK-PT)
POLQA2	Perceptual audio test (speech) for wideband devices
PESQ	Perceptual audio test (speech) for low bandwidth devices
BEN	Bench Mode for APx515
STI	Speech Transmission Index measurements plug-in

DIGITAL I/O OPTIONS

PDM	1-bit oversampled audio for MEMS mics; supports jitter test*
Bluetooth®	Bluetooth audio test that includes mSBC & A2DP
Digital Serial	I^2S and TDM chip-level connectivity; supports jitter test*
HDMI	HDMI+ARC audio and metadata
ADIO	Advanced Digital I/O, with advanced clock and jitter capabilities*

*Requires AMC-configured APx analyzer

FEATURES

FEATURES		APx52x	APx58x	APx555
Analog input channels		2 (APx525) 4 (APx526)	8 (APx582 / 585) 16 (APx586)	2
Analog output channels		2	2 (APx582) 8 (APx585 / 586)	2
Analog Analyzer Performance				
Bandwidth		>90 kHz	>90 kHz	>1 MHz - 2 channels
Maximum Rated Input Voltage		230 Vpk	160 Vpk	230 Vpk
Analog Generator Performance				
Sine Frequency Range		0.1 Hz - 80.1 kHz	0.1 Hz - 80.1 kHz (APx582) 5.0 Hz - 80.1 kHz (APx585 / 586)	0.001 Hz - 80.1kHz, DAC 5 Hz - 204 kHz, analog
Maximum Amplitude (balanced)		21.21 Vrms	21.21 Vrms (APx582) 14.40 Vrms (APx585 / 586)	26.66 Vrms
System Performance				
Residual THD+N (20 kHz BW)		−105 dB + 1.3 µV	−103 dB + 1.3 µV	−117 dB + 1.0 µV
Residual Input Noise (20 kHz BW)		1.3 µV	1.3 µV	1.0 µV
Analog Options List				
BW52 High Bandwidth (2 Ch - 1 MHz)		(Opt)	-	Standard
AG52 Square Wave, DIM		(Opt)	-	Standard
Tone Burst		-	-	Standard
Intermodulation Distortion		Standard	Standard	Standard
Digital Options List				
ASIO		Standard	Standard	Standard
Digital I/O (AES3 / SPDIF)		Standard	Standard	Standard
Advanced Digital I/O (ADIO)*		(Opt)	(Opt)	Standard
HDMI		(Opt)	(Opt)	(Opt)
Bluetooth		(Opt)	(Opt)	(Opt)
PDM		(Opt)	(Opt)	(Opt)
Digital Serial I/O		(Opt)	(Opt)	(Opt)
Advanced Master Clock (AMC)*		(Opt)	(Opt)	Standard
Reference/Sync (AMC module)				
AES11 DARS Reference In/Out		(Opt)	(Opt)	Standard
Sync In/Out		(Opt)	(Opt)	Standard
Trigger In/Out		(Opt)	(Opt)	Standard

* ADIO includes AMC module

APx500 Software

A versatile, powerful audio test experience.

This bold new interface offers users two easy-to-use modes. Choose between Sequence Mode for fast production testing and automated measurements, and Bench Mode for real-time visibility into device behavior across a variety of parameters.
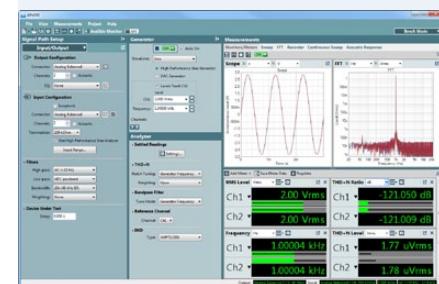
BENCH MODE:

New, 2700 Series-inspired interface provides complete test flexibility with real-time feedback, enabling rapid insight into the relationships between stimulus and results.
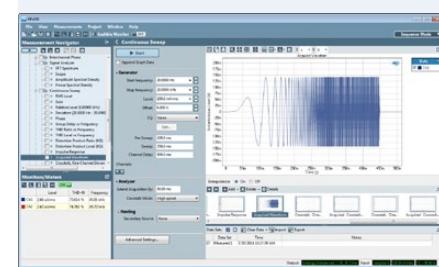
SEQUENCE MODE:

Classic APx interface for quick, sequenced testing and code-free automation.

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Audio precision