

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 ² S 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

		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 μ V	-103 dB + 1.3 μ V	-117 dB + 1.0 μ V
Residual Input Noise (20 kHz BW)		1.3 μ V	1.3 μ V	1.0 μ V
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

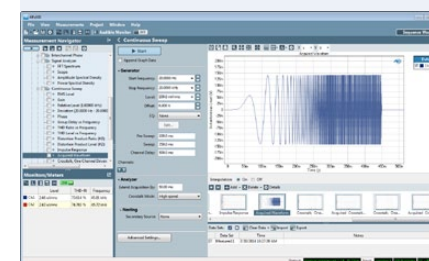
A versatile, powerful audio test experience.

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.