



APx585 and APx586

Multichannel audio analyzers from Audio Precision.



APx585 shown with optional HDMI and DSIO modules

Ideal For Testing :

- RECEIVERS
- MIXING CONSOLES
- POWER AMPS
- DOLBY / DTS TEST
- SET-TOP BOXES
- GAMES CONSOLES
- MULTIMEDIA PCs
- CONVERTERS
- DVD PLAYERS
- CLASS D AMPS
- TVs
- AUDIO RECORDERS

Key Features

- True multichannel generator and analyzer
- Measure one-to-many or many-to-one crosstalk & phase across all channels
- Playback encoded audio files inside automated projects for Dolby/dts.
- Measure maximum power across all channels over time
- View power spectrum graphs with regulated frequency sweep and other CEA-2006 and CEA-490A measurements

The APx Series is the next generation audio analyzer family that combines an award-winning UI with AP's legendary commitment to performance. No other analyzer is faster or easier to use.

The **APx585** is a true multichannel audio analyzer, with 8 simultaneous analog outputs and inputs. The **APx586** adds a second input module for 16 simultaneous analog channels in. Both models have 192k digital inputs and outputs via AES/EBU, TOSLINK and SPDIF. HDMI and Digit Serial I/O are also available as options.

Multichannel audio requires multichannel analysis

A true multichannel analyzer allows not just faster testing, but also a complete picture of the performance of all of a device's input and output channels simultaneously.

Today, the majority of A/V receivers, disc players, TVs, PCs and automotive audio devices have more than two channels, from six channels (5.1) in surround sound applications to 16 or more channels in many cars. The conventional solution for testing multiple channels with a two channel analyzer has been to use switchers.

Such an approach has two major problems. First, even when automated, switching between channels is slow. Second, because only one or two channels are being observed at a time, designers and manufacturers are often blind to interactions between channels. Problems which may go unobserved include output sag in channels during full power output tests as well as phase and crosstalk interactions, particularly the combinatorial complexity of all the output channels interacting with each other.

Models & Options

Select the analyzer that matches your needs. All models use the same software, so sharing projects is easy. Upgrades are also available between any model (HDMI is only available on APx585).

APx585	8 analog inputs and outputs; 192K digital I/O
APx586	16 analog inputs and 8 outputs; 192K digital I/O
HDMI option	HDMI source and sink with video monitors
DSIO option	Digital Serial interface for chip-level connectivity

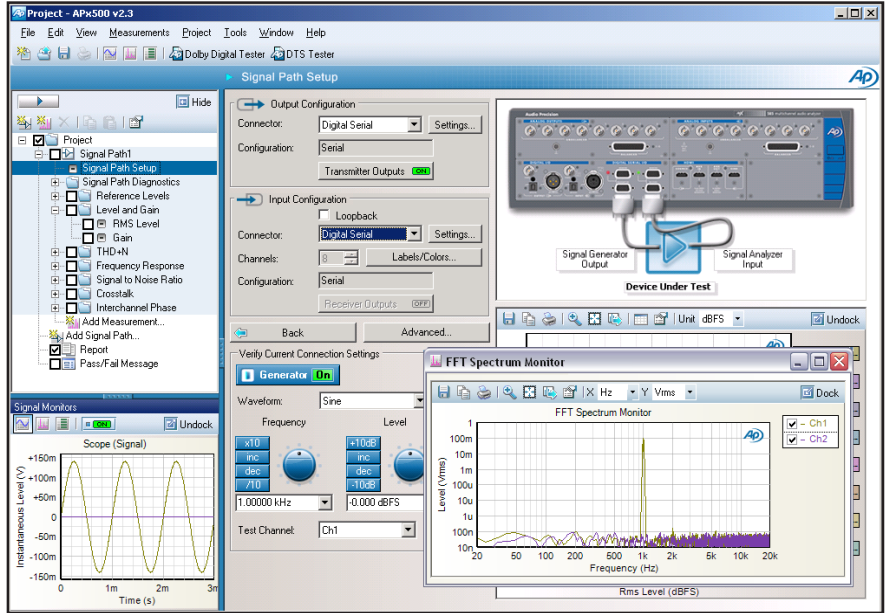


Clear communication between R&D, production and management

All settings for a test are saved in a single project file that's small enough to email, making it easy to replicate test setups between R&D and production facilities anywhere in the world. Project files are compatible with all APx instruments and each project is self-contained, so there's never any worry about dependencies or broken links. For customers, contract manufacturers or management, APx automatically generates rich graphic reports, with highlighted pass / fail limits and options to export as PDF, HTML, Excel or text.

Ideal for production test

APx works well in production environments. Complex sequences with user instructions and reports can be created without writing a single line of code. For integrated test stations, APx integrates easily within a larger test procedure using .NET, C# or LabVIEW or it can execute external scripts to control other instruments.



APx500 Measurement Software with FFT monitor open

Multiple Award Winning



Winner of

Pro Audio Review's
Hot Gear Award 2008

and

Test & Measurement World's
Best in Test 2007

"Audio Precision has produced an instrument that will be hard to beat for the price."

-- Graham Langley | Audio Media | Sept 08

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APx585/586 Audio Analyzer Key Specifications

SYSTEM PERFORMANCE

Residual THD+N (20 kHz BW)
-103 dB + 1.4 μ V

GENERATOR PERFORMANCE

Sine Frequency Range
5 Hz to 80.1 kHz
Frequency Accuracy
3 ppm
IMD Test Signals
SMPTE, MOD, DFD
Maximum Amplitude (balanced)
14.4 Vrms
Amplitude Accuracy
 ± 0.05 dB
Flatness (20 Hz-20 kHz)
 ± 0.008 dB
Analog Output Configurations
unbalanced & balanced
Digital Output Sampling Rate
22 kHz-192 kHz
Dolby / dts Generator
Yes

ANALYZER PERFORMANCE

Maximum Rated Input Voltage
110 Vrms (bal/unbal)
Maximum Bandwidth
>90 kHz
IMD Measurement Capability
SMPTE, MOD, DFD
Amplitude Accuracy (1 kHz)
 ± 0.05 dB
Amplitude Flatness (20 Hz-20 kHz)
 ± 0.008 dB
Residual Input Noise (20 kHz BW)
1.3 μ V
Individual Harmonic Analyzer
d2-d10
Max FFT Length
1024K points
DC Voltage Measurement
Yes



Accredited by A2LA
under ISO/IEC: 17025
for equipment calibration



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