



APx520/525 Two Channel Audio Analyzer

Next generation design, always AP performance

The APx525 is a two channel audio analyzer that combines an award-winning user interface with AP's legendary commitment to performance.

APx is high speed, high performance, and user friendly. Innovations include one-click measurements, the automated measurement sequencer and continuous sweep technology that can derive 14 measurements in as few as 7 seconds.

No other audio analyzer is faster or easier to use.

Next generation design...

APx525 is for both R&D engineers and production technicians who want fast and easy audio test, but who may not need the ultra-high performance of AP's 2700 Series or require the simultaneous multiple channel capability of APx585 and APx586.

APx525 has two balanced and two unbalanced analog inputs and outputs plus 192K digital inputs and outputs via AES/EBU, TOSLINK and SPDIF. The APx520 is an analog-only version of the 525 with the same performance and analog connectors, but no digital I/O.

APx offers fast, one-click measurements with on-screen results and graphic pass/fail limits indicators. Simple dialogs allow for easy configuration of filters and advanced settings. Repetitive bench tests across multiple signal paths can be automated with the measurement sequencer; level, scope, and FFT signal monitors can be pulled up for real-time analysis. APx can play custom waveforms (square waves, pink noise, etc.) and external source mode allows the testing of playback-only devices such as CD, DVD and MP3 players.

Engineers working with power amps can measure continuous maximum output and peak maximum output automatically, view power spectrum graphs with a regulated frequency sweep and take other measurements as specified by the CEA-2006 and CEA-490A standards.



In production environments, APx by itself is extremely easy to run. Automated sequences and user instructions can be created without writing a single line of code. APx integrates easily within a larger test procedure using the documented API. Sample applications are available for programmers working in Visual Basic .NET, C# and LabVIEW.

...always AP performance

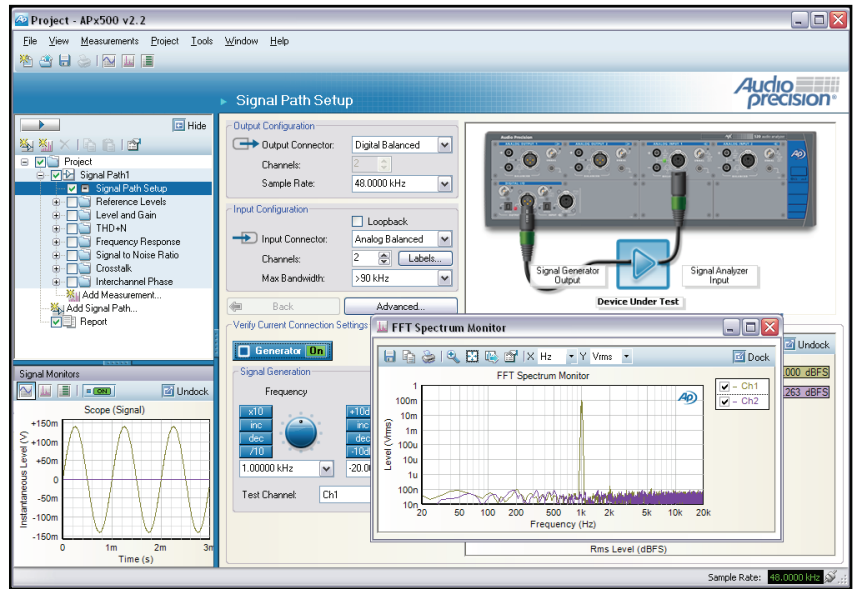
New breakthroughs allow APx to generate signals all the way down to 0.1 Hz. Maximum input voltage is rated at 300 Vrms (160 Vrms for unbalanced) and typical THD+N is -108 dB (at 1 kHz, 2.5 V). No other analyzer in the mid-range class offers this level of performance.

In addition to conventional balanced common mode rejection measurements, APx525 is also the only audio analyzer in the world to enable CMRR measurements in accordance with IEC60268 section 14.15.1.

Starting under \$10,000 in the US



Winner of
 Pro Audio Review's
 PAR Excellence Award 2006
 and
 Test & Measurement World's
 Best in Test 2007



The APx500 measurement software UI

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.

World's foremost audio experts behind every instrument

Audio Precision provides world-class support extending beyond the technical operation of our equipment. AP's application engineering department will work with you to define your test procedure, troubleshoot the setup, and understand your results. Custom LabVIEW and API programming support is also available.

APx525 Key Specifications

BASIC FORMAT

Channels

2

Computer interface

USB 2.0

OS Compatibility

Windows Vista, XP

Dimensions

3U

GENERATOR PERFORMANCE

Sine Frequency Range

.01 Hz – 80.1 kHz

Frequency Accuracy

2 ppm

IMD Test Signals

SMPTE, MOD, DFD

Maximum Amplitude (balanced)

21.21 Vrms [60.00 Vpp]

Amplitude Accuracy

±0.05 dB

Flatness (20 Hz–20 kHz)

±0.008 dB

Residual THD+N (20 kHz BW)

-105 dB + 1.3 µV
 Typically < -108 dB at 1 kHz, 2.5 V

Analog Output Configurations

unbalanced, balanced, common mode test

Digital Output Sampling Rate

22 kHz–192 kHz (SPDIF, TOSLINK, AES/EBU)

ANALYZER PERFORMANCE

Maximum Rated Input Voltage
 160 Vrms (unbal) / 300 Vrms (bal)

Maximum Bandwidth
 >90 kHz

Amplitude Accuracy (1 kHz)
 ±0.05 dB

Amplitude Flatness (20 Hz–20 kHz)
 ±0.008 dB

Residual Input Noise (20 kHz BW)
 1.3 µV

Residual THD+N (20 kHz BW)
 -105 dB + 1.3 µV

Individual Harmonic Analyzer
 d2–d10

Max FFT Length
 Up to 1 million (1024 K)

IMD Measurement Capability
 SMPTE, MOD, DFD

Crosstalk
 140 dB (20 kHz)

DC Voltage Measurement
 Yes



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



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