



KEY FEATURES

• Flexibility

Compatible with ASIO sound cards. Pick the product that matches your performance requirement and budget.

• Configurability

Select options based on your needs. Purchase individual measurements or value-priced Flex Packs.

Portability

Move your measurement licenses from one computer to another simply by moving the APx500 Flex Key.

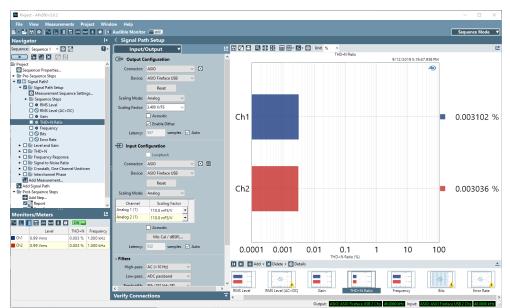
Expandability

Additional measurements can be added at any time by ordering a new key code for your APx500 Flex Key.

 Adaptability Includes the broadest set of methodologies for detecting rub & buzz defects.

APx500 Flex | AUDIO ANALYZER

Full-featured analysis using audio interfaces



APx500 Flex: Versatility and Value

The APx500 Flex audio analyzer—comprised of APx500 measurement software and an APx500 Flex Key—allows you to select the ASIO-capable audio interface of your choice to use along with AP's versatile and powerful APx audio measurement software. Start with the measurement options you need now, with the freedom to add additional measurements as your test requirements evolve. The APx500 Flex brings Audio Precision innovations such as one-click measurements, code-free automation and sophisticated reporting to off-the-shelf audio interface hardware solutions.

A robust Solution

Across all measurements, the APx500 user interface is fast and intuitive. Just click to select a measurement, then click to add a filter. Drag limits to set pass/fail points right on the results graph. Effortlessly specify computations for derived results. Add defined measurements in a series and run them in an automated procedure called a Sequence. The APx generator can output steady tones, twin tones, sweeps, chirps, multitones, or play WAV files as arbitrary waveforms.

Test automation and reporting

Repetitive bench tests and production testing can easily be automated with the built-in measurement sequencer and saved as a project that can be used with any APx analyzer. Production Test mode provides an optional simplified operator interface with multiple run statistics, created and supervised by a manufacturing engineer. Access the API if you prefer: documentation for VB.NET, C#.NET, MATLAB and LabVIEW is included.

ASIO AUDIO INTERFACES AND DRIVERS

ASIO audio interfaces (sound cards) are manufactured by a large and varied number of companies. The performance and quality varies from vendor to vendor, as does the robustness of the drivers that are supplied with these products. Audio Precision has tested and verified the following ASIO audio interfaces as compatible with the APx500 software when configured correctly:

Danville Signal dspInstrument spDAQ | Echo AIO-A2 | Echo AIO-SA

Lynx Aurora (n)* | Lynx E22

RME Fireface UC | RME Fireface 802

It is expected that many of the ASIO audio interfaces available commercially will work well with the Audio Precision APx500 Flex, but it will be necessary for users to test and verify other products before making a purchase decision.

* APx500 Flex supports 2, 4, or 8 channels for measurement, depending on channel options purchased. When an audio interface with more than 8 channels is used, only 8 channels at a time can be configured in the APx500 software using an APx500 Flex Key.



APx500 Flex Measurement Options

The APx500 Flex base configuration provides six standard measurements on two channels, with options to expand to four or eight channels. Additional measurements are available as options bundled in Flex Packs or as individual options.

Software maintenance options are available to extend the standard year of coverage that comes with a new APx analyzer. Software maintenance options entitle the user to receive the next major software release, and can be extended for multiple years.



APx500 FLEX CHANNEL OPTIONS

PART NUMBER	DESCRIPTION	FEATURES
APX-FLEX-2CH	2-Channel	APx500 Flex two-channel software audio analyzer with sequence mode, input signal monitors, file analysis, and the six measurements described in Base Configuration below.
APX-FLEX-4CH	4-Channel	APx500 Flex four-Channel software audio anlyzer with sequence mode, input signal monitors, file analysis, and Base Configuration.
APX-FLEX-8CH	8-Channel	APx500 Flex eight-channel software audio analyzer with sequence mode, input signal monitors, file analysis, and Base Configuration.

FLEX PACK OPTIONS

PART NUMBERDESCRIPTIONINCLUDED MEASUREMENTN/ABase ConfigurationStandard with APx500 Flex: Level & Gain, Loudspeaker Production Test (with the broadest set of methodologies for detecting rub & buzz defects), Pass/Fail, Stepped Frequency Sweep, Signal Acquisition, THD+NAPX-FLEX-PACK-2Flex Pack 2Includes the following measurements: Crosstalk, Crosstalk, Sweeps, DC Level, DC Level Sweep, DUT Delay, Frequency, Frequency Response, Interchannel Phase, Level Ratio, Measurement Recorder, Noise, Noise Recorder, O-Peak Noise, SNR, SINAD, Stepped Level Sweep,APX-FLEX-PACK-3Flex Pack 3Includes the following measurements: Continuous Sweep, Digital Error Rate, Dynamic Range-AES17, IMD, IMD Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Regulated Prequency Sweep, Signal Analyzer, Bandpass Level Sweep, Cumulative Spectral Decay, Impedance/Thiele-Small, Modulated Noise, Polar Plots, Transfer Function.			
APX-FLEX-PACK-2Flex Pack 2Includes the following measurements: Crosstalk, Crosstalk Sweeps, DC Level, DC Level Sweep, DUT Delay, Frequency, Frequency Response, Interchannel Phase, Level Ratio, Measurement Recorder, Noise, Noise Recorder, Q-Peak Noise, SNR, SINAD, Stepped Level Sweep.APX-FLEX-PACK-3Flex Pack 3Includes the following measurements: Crosstalk Sweeps, DC Level, DC Level, DC Level Sweep.APX-FLEX-PACK-3Flex Pack 3Includes the following measurements: Continuous Sweep, Digital Error Rate, Dynamic Range-AES17, IMD, IMD Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Regulated Frequency Sweep, Signal Analyzer, Bandpass Level Sweep, Cumulative Spectral Decay, Impedance/Thiele-Small,	PART NUMBER	DESCRIPTION	INCLUDED MEASUREMENT
APX-FLEX-PACK-4Flex Pack 4Includes the following measurements: Continuous Sweep, Sort Level, Dot Level, Dot Level, MontaniaDut Delay, Frequency, Frequency, Frequency Response, Interchannel Phase, Level Ratio, Measurement Recorder, Noise, Noise, Noise, Noise, Roose Recorder, Q-Peak Noise, SNR, SINAD, Stepped Level Sweep.APX-FLEX-PACK-3Flex Pack 3Includes the following measurements: Continuous Sweep, Digital Error Rate, Dynamic Range-AES17, IMD, IMD Frequency Sweep, IMD Level Sweep, Input Sample Rate, Maximum Output, Maximum Output (CEA-2006), Multitone Analyzer, Regulated Frequency Sweep, Signal Analyzer.APX-FLEX-PACK-4Flex Pack 4Includes the following measurements: Acoustic Response, Bandpass Level, Bandpass Level Sweep, Cumulative Spectral Decay, Impedance/Thiele-Small,	N/A	Base Configuration	
APX-FLEX-PACK-4 Flex Pack 4 Includes the following measurements: Acoustic Response, Bandpass Frequency Sweep, Bandpass Level, Bandpass Level Sweep, Cumulative Spectral Decay, Impedance/Thiele-Small,	APX-FLEX-PACK-2	Flex Pack 2	Crosstalk, Crosstalk Sweeps, DC Level, DC Level Sweep, DUT Delay, Frequency, Frequency Response, Interchannel Phase, Level Ratio, Measurement Recorder,
Acoustic Response, Bandpass Frequency Sweep, Bandpass Level, Bandpass Level Sweep, Cumulative Spectral Decay, Impedance/Thiele-Small,	APX-FLEX-PACK-3	Flex Pack 3	Continuous Sweep, Digital Error Rate, Dynamic Range–AES17, IMD, IMD Frequency Sweep, IMD Level Sweep, Input Sample Rate, Maximum Output, Maximum Output (CEA–2006), Multitone Analyzer,
	APX-FLEX-PACK-4	Flex Pack 4	Acoustic Response, Bandpass Frequency Sweep, Bandpass Level, Bandpass Level Sweep, Cumulative Spectral Decay, Impedance/Thiele-Small,

APx500 Flex Measurement Options (continued)

In addition to Flex Packs, APx500 Flex measurement options can be purchased individually so that you can get just the measurements you need, without paying for ones you don't. Measurements can be added to an APx500 Flex Key when ordering a new APx500 Flex audio analyzer or they can be delivered electronically to add to an existing APx500 Flex Key. APx500 software's Bench Mode is also available, as are specialized perceptual audio tests (e.g., ABC-MRT, PESQ).

INDIVIDUAL MEASUREMENT OPTIONS

ABC-MRT	Digital Error Rate	Level Ratio	POLQA
Acoustic Response	Dynamic Range (AES17)	Loudspeaker Production Test*	Q-peak Noise
Bandpass Frequency Sweep	DUT Delay	Maximum Output Level	Regulated Frequency Sweep
Bandpass Level	Frequency	Maximum Output per CEA-2006	Signal Acquisition*
Bandpass Level Sweep	Frequency Response	Measurement Recorder	Signal Analyzer
Crosstalk Sweep, 1 Channel Driven	IMD	Modulated Noise	SNR
Crosstalk Sweep, 1 Channel Undriven	IMD Level Sweep	Multitone Analysis	SINAD
Crosstalk, 1 Channel Driven	IMD Frequency Sweeps	Noise	Stepped Frequency Sweep*
Crosstalk, 1 Channel Undriven	Impedance/Thiele-Small	Noise Recorder	Stepped Level Sweep
Crosstalk, Custom Measurement	Input Sample Rate	Pass/Fail*	STI
DC Level	Interchannel Phase	PESQ	THD+N*
DC Level Sweep	Level & Gain*	Polar Plots	Transfer Function

* These measurements are included in the base configuration

SOFTWARE LICENSING OPTIONS

PART NUMBER	DESCRIPTION	MEASUREMENT/FEATURES
SW-MAINT-1/3/5	Software Maintenance	Provides 1,3, or 5 years of software maintenance for an existing APx Legacy or B Series audio analyzer (perpetual licenses).
SW-EXT-3/5	Software Maintenance	Provides 2 or 4 additional years of software maintenance with the purchase of a new APx B Series analyzer (perpetual licenses).
SW-SUBSCR-1/3/5YR	Software Subscription	Provides 1, 3, or 5 year software subscriptions (time-limited licenses).

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