APx515 | AUDIO ANALYZER
2-Channel audio analyzer

Ideal for production test and entry-level R&D applications

The APx515 is a high-performance audio analyzer optimized for production test. It is a best-in-class instrument for its combination of speed, performance, automation and ease-of-use.

APx515 can make all of the key audio measurements in less than three seconds. Despite its low cost, APx515 still has excellent performance, with a typical THD+N of –106 dB, 1.2M point FFTs and 216k digital I/O, as well as the one-click automation and ease-of-use of all APx Series audio analyzers. Like all AP instruments, APx515 comes with an ISO:17025 Accredited Calibration and three year warranty, so its results are trusted everywhere.

Comprehensive test in 3 seconds, easy automation AND low cost

APx515 operates either as a stand-alone test unit with its own user interface or it can be controlled by a master .NET or LabVIEW application. In either case, an operator can control the APx515 with a keyboard, foot controller or barcode scanner, or the system can be totally automated. Switchers and external devices such as pass/fail lights are also supported.

In stand-alone mode, sophisticated test sequences are created by selecting from a list of common audio measurements—no coding required. Pass/fail limits, advanced configurations and user prompts can be added as necessary, then the type of report is selected: from rich graphic printouts using Microsoft Word to CSV export files. Additionally, the project can be locked to prevent accidental changes once on the production line.

On an automated manufacturing line, a master .NET or LabVIEW application can control the APx515 directly using the API or APx LabVIEW driver. Individual measurements can be made or the master application can call a test sequence created with the APx UI.

KEY FEATURES

• Typical THD+N –106 dB and 1.2M point FFTs
• Comprehensive test in 3 seconds without any coding
• Intuitive UI with one-click measurements
• Supports VB.NET, C#.NET, MATLAB, full LabVIEW driver
• Share projects and .wav acquisition files with any APx analyzer
• Create custom reports using MS Word and the APx UI
• Advanced measurement library includes IMD, MOL, dynamic range, FFTs, and more

SOFTWARE OPTIONS

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<thead>
<tr>
<th>SOFTWARE OPTIONS</th>
<th>Description</th>
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<tr>
<td>SW-HST</td>
<td>Adds high speed multitone and continuous sweep measurements</td>
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<td>SW-AML</td>
<td>Adds IMD, MOL, dynamic range, FFTs and other advanced measurements</td>
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<td>SW-ACR</td>
<td>Adds acoustic response measurements</td>
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<td>SW-ASIO</td>
<td>Adds software connectivity for PC audio interfaces</td>
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<tr>
<td>SW-BEN</td>
<td>Adds Bench Mode capability to APx515</td>
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</table>
Thousands of engineers around the world trust measurements made with AP instruments, so collaboration can start with the mutual agreement that each party's test equipment is accurate and reliable.

From a practical perspective, all APx audio analyzers use the same software, making tests and results easier to share between vendors, R&D and production facilities anywhere in the world.

For example, a test designer using an APx525 can create a production test sequence and email it to a contract manufacturer whose APx515 will run the project natively. Performing quality assurance on the production line, the APx515 operator can save a recording of the actual output of a device under test and email it (along with the 515's settings) in a single project back to Engineering for further analysis.

APx515 Standard Measurements

- Level & Gain
- Frequency Response
- THD+N
- Signal-to-Noise Ratio
- Noise
- Crosstalk
- Interchannel Phase
- DC Level
- Frequency Measurement
- Measurement Recorder
- Stepped Level Sweep
- Stepped Frequency Sweep
- Compare Encoded Bitstream
- CMRR
- SINAD
- Pass / Fail
- Scope Monitor
- DC Level Sweep
- Q-peak Noise
- Level Ratio
- Input Sample Rate

Trusted results between vendors, designers and manufacturers

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