Analogue and Digital Audio Analyzers

dScope Series III - No Ordinary Audio Instrument



The world's most comprehensive and powerful measurement instrument for analogue and digital audio devices, including AES3 and I²S interfaces, Bluetooth® systems, acoustic transducers and Windows™ audio devices.

Beyond Traditional Measurements

Prism Sound, world-renowned leaders in digital audio engineering, bring you a truly unique audio measurement system, loaded with innovations and exclusive features to help you design and test faster.



Speed

- Over 100 concurrent measurements for faster analysis
- Real time interaction for instant measurement feedback
- Built in automation for rapid, repeatable tests
- Multi-tone testing for high volume manufacturing
- Windows[™] Audio Device I/O for real-time soundcard analysis

Simplicity

- Auto Sequence; easily create test sequences and reports
- Simple USB connection to host PC
- Most compact audio bench instrument available
- Programmable shortcuts to frequently used tests
- ActiveX / COM control for QC integration, e.g. LabVIEW
- Field calibration utility to reduce downtime
- Turnkey packages for zero learning curve deployment

Power

- Unrivalled analysis power at an unbeatable price
- 'Smart FFT' Detectors for the most revealing analysis
- World's most advanced digital audio debug tools
- Twin generators for independent and arbitrary waveforms
- Advanced sweeps for unrivalled analysis detail
- Quasi-anechoic acoustic transducer measurements
- Event manager; your always-on Watchdog Monitor

Applications























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Call now to arrange a demo with your local representative:

USA: +1 973 983 9577 sales@prismsound.com UK: +44 (0)1353 648888 www.prismsound.com



Analogue and Digital Audio Analyzers

dScope Series III Innovations and Exclusive Features

The ONLY audio analyzer with 'Smart FFTs'

Beyond THD+N - determine how your device REALLY performs

The ORIGINAL audio analyzer with live interaction



Exclusive, user-configurable soft instruments for measuring and monitoring up to 40 different parameters at once: Amplitude, THD+N, THD, N, Nth harmonics, mains hum, crosstalk, gain, and much more. And all at the same time!

Scope traces, FFTs, residual distortion traces, sweeps, continuous time analysis, 'Smart FFT' Detectors, jitter measurements, digital metadata and more. Over 100 live measurements at once - no waiting for test sequences to complete!

Test faster than ever with over 100 simultaneous live results

EXCLUSIVE Event Manager toolbox



Powerful tools to continually monitor and log status changes and limit breaches. Flexible error reporting including email alerts when an error is detected. Ensure you never miss a glitch with a software log file that can run indefinitely.

Always-on watchdog monitor that NEVER misses a glitch

The world's FIRST complete Bluetooth audio test solution

Bluetooth audio testing made faster and easier!



Unique tools to address Windows[™] audio devices and Bluetooth® systems directly from the dScope Series III software. Avoid external editing software, and measure faster in a closed loop, in real time.

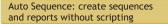


ActiveX/COM control interface



SIMPLIFY integration with your automation system

Test automation easier than ever





Perform all of your loudspeaker system measurements in one instrument: From digital inputs to I²S interfaces, through analogue and class D amplification to acoustic transducers.

Standalone automation via in-built, easy-to-use VBScript development environment.

Automation also supported via 3rd party software, e.g. Teststand, LabVIEW, Python, C#, Visual Basic, Delphi, etc.

Create automated test sequences, with limit checking and reporting, faster than ever before. All the analysis power of the dScope Series III, the simplicity of a click-and-run interface, and no code writing.

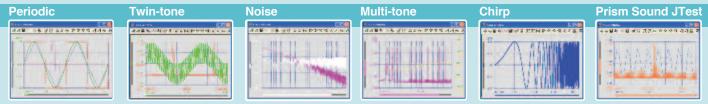
dScope Series III Functions and Capabilities

Signal Analyzer Amplitude Phase Frequency 🔺 Dearding 💽 💽 🥮 NAVS peoplete (Enfected : Ch-A) e Reading 🔚 🗖 🗐 e. Ram --10.128 dBu 1001.25 Hz 1.4 9 180.00 degrees 5000 00 **Continuous-Time Detector** THD+N IMD Amplitude Gain Noise **Cross-talk** Reading 🗐 🖬 📕 -10.102 dB -111.932 dB -118.289 dB 241.36 mV 81.82 µV -114.358 dB 201100 **** 33,93 **FFT Detectors** Amplitude THD **Residual Noise Nth Harmonic** IMD **User-defined** Takenal (D.A) - 88 -18.260 dBFS -117.770 dB -121.787 dB 0.00010 % -113,519 dB 3.196 dB 0.00100 1.112 0.000 6532 3.00 Graphical results Live Residual FFT Live Scope Live FFT Live Residual Gated Impulse **Analysis Filters** AREA SERIESSNE 1414) 1412 - 1414 NAME OF STREET THE ++++ Hertin hettel they

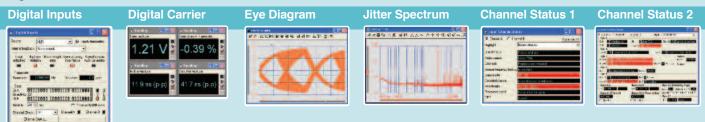
Swept	results

vs Frequency	vs Amplitude	Nested	vs Power	vs Time	vs Jitter Amplitude

Generator Functions



Digital Parameters



dScope Series III Instruments Available in Four Versions

- dScope Series III Analogue and Digital Audio Test System. The ultimate instrument with extensive analogue and digital capabilities.
- **dScope Series IIIE** Analogue-and-Digital Essentials Audio Test System. All the essential tools, ideally suited to price sensitive analogue and digital QC applications.
- **dScope Series IIIA**+ Analogue-Plus Audio Test System. All the power of the dScope Series III, but without digital I/O.
- **dScope Series IIIA** Analogue Audio Test System. For those who don't need the full power of dScope Series III.



dScope Series III Analogue and Digital version front panel



dScope Series IIIE Analogue and Digital version front panel



dScope Series IIIA and A+ Analogue versions front panel



dS-NET VSIO Adapter Digital Serial Interface Adapter (I2S, I2C, SPI)



dS-LPF Dual Channel Low Pass Filter for class D amplifiers and sigma-delta converters





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