

## dScope Series III - No Ordinary Audio Instrument



The world's most comprehensive and powerful measurement instrument for analog and digital audio devices, including AES3 and I<sup>2</sup>S 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

- 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



AUTOMOTIVE



MANUFACTURE

BLUETOOTH  
AUDIO

MOBILE AUDIO



BROADCAST

MUSIC  
INDUSTRYCOMPUTER  
AUDIO

PRO AUDIO



EDUCATION



R &amp; D



ELECTROACOUSTICS



SEMICONDUCTOR



TELEPHONY



SERVICE

HOME  
ENTERTAINMENT

CONVERTERS



Call now to arrange a demo with your local representative:

CA: 949-861-3350  
sales@prismsound.com

NJ: 973-983-9577  
www.prismsound.com

## dScope Series III Innovations and Exclusive Features

**The ONLY audio analyzer with 'Smart FFTs'**

Beyond THD+N - determine how your device REALLY performs



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!

**The ORIGINAL audio analyzer with live interaction**

Test faster than ever with over 100 simultaneous live results



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!

**EXCLUSIVE event Manager toolbox**

always-on watchdog monitor that NEVER misses a glitch



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.

**The world's FIRST complete Bluetooth audio test solution**

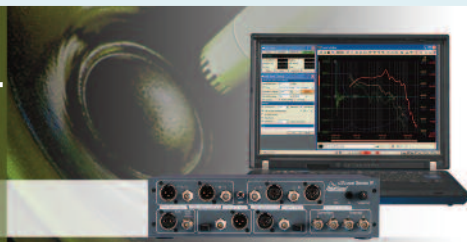
Bluetooth audio testing made faster and easier!



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.

**Electronic and electroacoustic test**

Measure your ENTIRE loudspeaker with a single instrument



Perform all of your loudspeaker system measurements in one instrument: From digital inputs to I<sup>2</sup>S interfaces, through analog and class D amplification to acoustic transducers.

**ActiveX/COM control interface**

SIMPLIFY integration with your automation system



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.

## dScope Series III Functions and Capabilities

### Signal Analyzer

#### Amplitude



#### Frequency



#### Phase



### Continuous-Time Detector

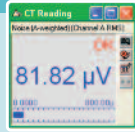
#### Amplitude



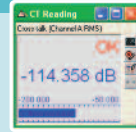
#### Gain



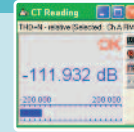
#### Noise



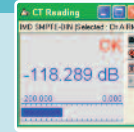
#### Cross-talk



#### THD+N



#### IMD



### FFT Detectors

#### Amplitude



#### THD



#### Residual Noise



#### Nth Harmonic



#### IMD

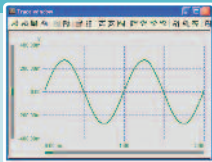


#### User-defined

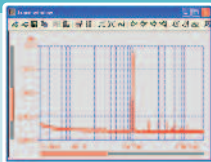


### Graphical results

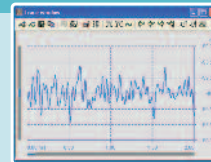
#### Live Scope



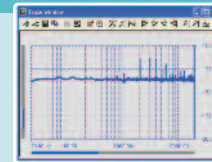
#### Live FFT



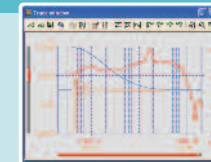
#### Live Residual



#### Live Residual FFT



#### Gated Impulse

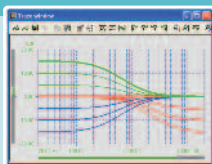


#### Analysis Filters

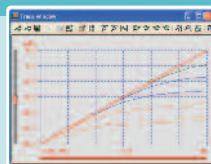


### Swept results

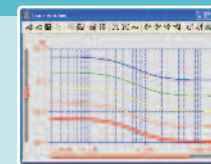
#### vs Frequency



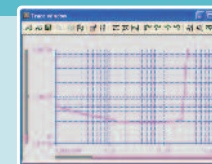
#### vs Amplitude



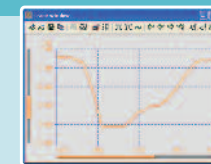
#### Nested



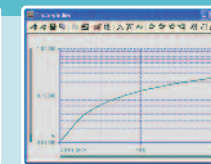
#### vs Power



#### vs Time

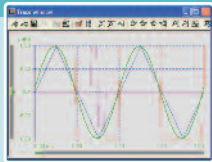


#### vs Jitter Amplitude

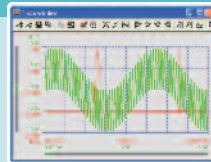


### Generator Functions

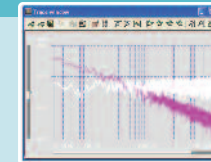
#### Periodic



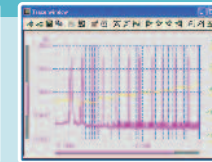
#### Twin-tone



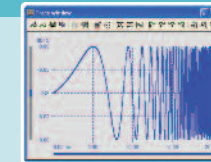
#### Noise



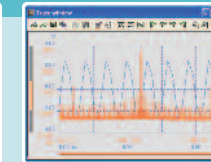
#### Multi-tone



#### Chirp

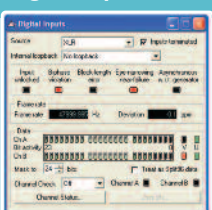


#### Prism Sound JTest



### Digital Parameters

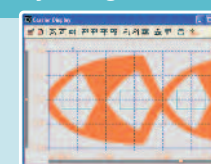
#### Digital Inputs



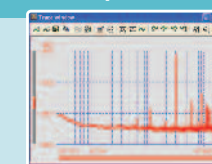
#### Digital Carrier



#### Eye Diagram



#### Jitter Spectrum



#### Channel Status 1

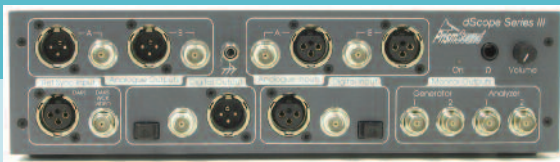


#### Channel Status 2



## dScope Series III Instruments Available in Three Versions

- dScope Series III Analog and Digital Audio Test System. The ultimate instrument with extensive analog and digital capabilities.
- dScope Series IIIA+ Analog-Plus Audio Test System. All the power of the dScope Series III, but without digital I/O.
- dScope Series IIIA Analog Audio Test System. For those who don't need the full power of dScope Series III.



dScope Series III Analog and Digital Version front panel



dScope Series IIIA and A+ Analog Versions front panel



dScope Series III back panel.

On analog instruments the Ref Sync Out connectors are not fitted.

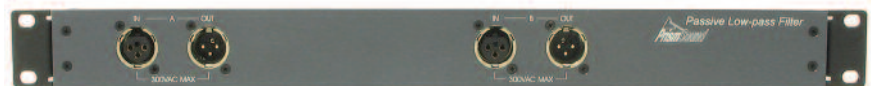
Options	dScope Series III	dScope Series IIIA+	dScope Series IIIA
Analog I/O	✓	✓	✓
Soundcard I/O	✓	✓	✓
FFT Analysis	✓	✓	✓
Impulse response Testing	✓	✓	✓
Scripting	✓	✓	✓
Multi-tones	✓	✓	✗
FFT Detectors	40	40	2
Scripted FFT Detectors	✓	✓	✗
Nested & Sensed Sweeps	✓	✓	✗
Sweep Input on X axis	✓	✓	✗
Regulation	✓	✓	✗
dS-NET Control	✓	✓	✗
Port Access from Scripts	✓	✓	✗
Event Manager	✓	✓	✗
192kHz Sampling	✓	✓	✗
Digital I/O	✓	✗	✗
Digital Carrier I/O	✓	✗	✗
Signal Generator Functions	All functions	All functions	Sine, Swept Sine, Twin Tone, White Noise, & Pink Noise only



dS-NET VSIO Adapter Digital Serial Interface Adapter (I<sup>2</sup>S, I<sup>2</sup>C, SPI)



dS-NET I/O Switcher Dual bus, 16 Channel Input / Output Switcher



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



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