

## PRESS RELEASE

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## **Yokogawa adds two 500 MHz digital oscilloscopes to its DL9000 signalXplorer series**

Newnan, Georgia - Yokogawa expands its award-winning high performance DL9000 signalXplorer digital oscilloscope series with two new 500 MHz bandwidth instruments. Both the DL9040 and DL9040L can sample up to 5 GS/s on two channels or 2.5 GS/s on all four channels. The DL9040 comes standard with 2.5 Mpoints of memory per channel; the DL9040L comes standard with 6.25 Mpoints of memory per channel.

The DL9000 signalXplorer series offers a unique combination of functions and features making it a superb all-around scope: fast and flexible waveform acquisitions, Dot Density display, History Memory, simple memory deletion and formatting critical for operation in secure environments, advanced waveform analysis, and a large color display with a compact footprint.

The DL9000 implements parallel processing in the A-to-D conversion section. This means that waveform data from each channel is processed independently and the acquisition rate does not slow down when more than one channel is active. Even with all four channels turned on, the DL9000 can capture and display as many as 25,000 waveforms/sec/channel (each waveform contains 2,500 points). Also, without displaying each waveform as it is captured, the DL9000 can acquire an incredible 2.5 million waveforms/sec/channel.

Yokogawa continues to lead in oscilloscope waveform acquisition flexibility with the DL9000. Based on how many data points are needed per acquisition, how many 'History' waveforms need to be saved and how fast each acquisition needs to occur, users select from 10 or more different waveform acquisition lengths to best suit their particular application. For example, a user could set a memory length of 2.5 kpoints/acquisition (on each of four

channels) and acquire up to 25,000 acquisitions/sec/channel. Or the user could set the memory to 12.5 kpoints/acquisition (on each of four channels) and acquire up to 9,000 acquisitions/sec/channel or 125 kpoints/acquisition (on each of four channels) and acquire up to 900 acquisitions/sec/channel.

Acquired waveforms are displayed using Dot Display technology. A user-selectable number of waveforms are overlaid on top of each other. Then either the intensity or the color of every pixel on the display is varied, based on the number of times waveforms 'hit' each pixel. The result is a display that shows how the acquired waveforms behave over time. By simply looking at the display, users get a sense of waveform noise and jitter and can also see glitches that may only occur infrequently.

History Memory in the DL9000 stores as many as 2000 previously acquired waveforms. History waveforms can be reviewed, replayed, searched for specific events and analyzed. This offers users unparalleled insight into waveform behavior, thus aiding in troubleshooting complex problems.

The Sure Delete function of the DL9000 provides fast and simple deletion and formatting of all internal acquisition memory as well as data stored on the optional internal hard disk drive. Unlike many oscilloscopes on the market today that run Microsoft Windows from the oscilloscope's internal hard drive, the DL9000's operating system (OS) is embedded in the internal CPU ASIC. When an instrument's OS resides on the internal hard drive, it is impossible to completely erase that drive without then having to reload the OS. With the DL9000 and its embedded OS, users can feel confident, with the press of a button, that all waveform and setup information inside the instrument is erased, without having to reload the OS.

The DL9000 offers a number of advanced waveform analysis features. In addition to waveform parameter calculation, the DL9000 comes standard with two independent analysis windows. Each analysis window can be used to calculate and display the following: XY plots, FFT calculations using up to 250,000 waveform points, waveform parameter listing and trending plots, waveform parameter histograms and accumulation display histograms for noise and jitter analysis. The analysis windows also offer optional I<sup>2</sup>C and SPI serial bus protocol analysis.

Finally, despite its high performance acquisition and display functions, the DL9000 series scopes are compact and lightweight. Their dimensions are approximately 14"(W) x 8"(H) x 7"(D). They weigh about 14.3 lbs. and are rack mountable. The DL9000 series scopes have a large, bright 8.4" XGA high-resolution LCD screen.

For more information about these instruments, contact your local Yokogawa office or Yokogawa representative. Additional information can also be found at {[www.yokogawa.com/tm](http://www.yokogawa.com/tm)}

## **About Yokogawa Corporation of America**

Yokogawa Corporation of America is the North American unit of \$4 billion Yokogawa Electric Corporation, a global leader in the manufacture and supply of instrumentation, process control, and automation solutions.

Headquartered in Newnan, Georgia, Yokogawa Corporation of America serves a diverse customer base with market-leading products including analyzers, flowmeters, transmitters, controllers, recorders, data acquisition products, meters, instruments, distributed control systems, and more.

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