

Tektronix Unveils the World's First Uncompromised Performance Oscilloscopes

New DPO7000 Platform Eliminates Oscilloscope Trade-Offs; Transforms Customer Expectations

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Tektronix, Inc. , a leading worldwide provider of test, measurement and monitoring instrumentation, announced the introduction of new DPO7000 Digital Phosphor Oscilloscopes (DPOs). These breakthrough instruments are based upon a new generation hardware platform that eliminates the trade-offs found in all other oscilloscopes between sample rate, record length and waveform capture rate. With technology innovation, unmatched features and specifications, the real-time DPO7000 is the world's first uncompromised performance oscilloscope.

Design engineers are increasingly working with embedded systems that present a variety of challenges in serial data, power design, video and other applications. In addition, faster signaling speeds are becoming more prominent in mainstream applications. To meet the needs brought about by increasing speed and complexity, engineers need greater real-time signal acquisition and instrument intelligence for design validation, debugging and compliance. This requires the fast sampling rates, long record length (deep memory), fast waveform capture and analysis capabilities uniquely available in the DPO7000. Ranging from 500 MHz to 2.5 GHz, the new DPO7000 models are ideal for engineers and technicians wanting to more efficiently debug their devices, reduce time to market, obtain higher quality products and lower development costs.

"All digital oscilloscopes have had to make difficult design trade-offs in order to keep pace with the latest technologies," said Colin Shepard, Vice President, Performance Oscilloscopes, Tektronix. "With the real-time DPO7000, Tektronix has eliminated these trades-offs and is able to provide full real-time performance, deep memory, and fast waveform capture rate. With this performance, leading data analysis, and compelling ease-of-use, the DPO7000 models are the first uncompromised mid-range bandwidth performance oscilloscopes available and are ideal for performing debug and analysis. With more industry-leading specifications and standard features than any other similarly priced product, the DPO7000 offers everything an engineer wants in a performance oscilloscope and will transform customer expectations."

The New DPO7000 Models: Real-Time Performance Everywhere it Counts

The 500 MHz DPO7054, 1 GHz DPO7104, and 2.5 GHz DPO7254 models share a new generation platform that makes broad use of IBM 7HP silicon germanium (SiGe) technology to provide higher performance for demanding applications. The DPO7254 provides fast sample rates of 10 GS/s on four channels, with 4X real-time oversampling on four channels simultaneously and up to 16X on one channel. The DPO7054 and DPO7104 support 40X oversampling on one channel and 10X on four channels simultaneously. The DPO7054 and DPO7104 support deep record lengths to 200M while the DPO7254 supports 400M. All models include a 12.1 inch XGA display enabling engineers to see more information at once, and all models provide vertical accuracy of +/- 1%.

The new models provide fast waveform capture at all sample rates through 4th generation DPX® signal imaging that can acquire more than 250,000 waveforms per second. This allows designers to capture, view, and measure dynamic signal information in real time much more quickly, easily, and accurately than other oscilloscopes in this class. With variable color-graded persistence that holds anomalies until the eye can see them, the new models will enhance customer productivity by quickly capturing elusive anomalies and

transient events, improving accuracy and accelerating design debug. The new models also include the award-winning MyScope™ user interface that greatly simplifies ease of use. MyScope functionality enables users to quickly and easily customize the oscilloscope to meet their unique requirements.

"Tektronix has successfully combined fast sample rate, deep memory, and high waveform capture rate in their newest oscilloscopes," said Steve Boyle, engineering group leader, Analog Devices. "The new DPO7000 oscilloscopes accurately capture fast signals, their characteristics and imperfections. In combination with MyScope ease of use and a broad set of applications, the DPO7000 provides superior performance for our demanding applications at a very attractive price."

Ideal for Embedded Applications

DPO7000 models include the unique Pinpoint® trigger system, the world's only complete A/B triggering system to rapidly discover and capture intermittent faults or events in complex signal structures. The Pinpoint trigger system provides DPO7000 customers with built-in serial pattern triggering up to 1.25 Gb/s. With this capability incoming data can be triggered on in real-time without post processing, allowing engineers to catch a fault instead of hoping to find it through repeated searches.

Built-in serial triggers for the I2C, SPI, and RS-232 buses are standard features of the DPO7000 Series. This enables designers to trigger on the events that define key system activities for each of these industry-standard buses. Comprehensive signal analysis tools with key measurements for CAN are available options for the DPO7000. These tools enable engineers to perform time correlated system analysis of CAN and LIN, physical layer and data layer analysis with both timing and protocol decode displays, and CAN packet specific triggering.

"The new real-time DPO7000 series is one of the most complete mainstream oscilloscopes in the market, offering leading specifications, an abundance of instrument intelligence, and the most advanced real-time signal capture tools to accelerate the debug of complex embedded designs," said Kiran Unni, Program Manager, Test & Measurement group with Frost & Sullivan. "The DPO7000 oscilloscopes offer excellent performance, utility, usability, productivity, and insight into challenging engineering problems. The new family will transform customer expectations; no other comparably priced oscilloscopes offer as many industry-leading features and specifications."

U.S. list prices for the DPO7000 models begin at \$14,000.

About Tektronix

Tektronix, Inc. is a test, measurement, and monitoring company providing measurement solutions to the communications, computer, and semiconductor industries worldwide. With more than 55 years of experience, Tektronix enables its customers to design, build, deploy, and manage next-generation global communications networks and advanced technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is www.tektronix.com.

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