

Tektronix Award-Winning Oscilloscopes Offer Enhanced Signal Fidelity and Easier Debug of High Speed Serial Buses

New Features and Capabilities for DPO7000 and DPO/DSA70000 Series

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Tektronix, Inc. , a leading worldwide provider of test, measurement and monitoring instrumentation, announced several new features and enhancements for the award winning DPO7000 Series and the DPO and DSA70000 Series, the highest performing real-time oscilloscopes in the world. The new capabilities provide unimpaired signal representation, as well as accurate timing and amplitude measurements resulting in enhanced productivity, reduced costs, improved efficiencies and increased customer satisfaction. The new capabilities will ease testing of high-speed serial data buses such as PCI-Express, SATA, and HDMI.

The new and enhanced capabilities will assist design engineers defining, developing and testing complex computing, video, communication, and data acquisition equipment. Key additions include: Bandwidth Limit Selection to control the noise floor; the best acquisition solution through enhanced bandwidth to the probe tip using DSP; Pattern Lock Triggering and Event Search and Mark. Taken together along with existing capabilities of the platform, the DPO/DSA70000 Series provides the most accurate 4-channel real time oscilloscope and the fastest and most complete debug capability. The complete toolset is capable of quickly capturing elusive anomalies and transient events through triggering and analyzing record length post acquisition.

Bandwidth Limit Selection

The DPO7000 and DPO and DSA70000 Series oscilloscopes include as standard a series of user-selectable bandwidth limit filters that preserve the basic roll-off characteristics, flatness, and phase linearity of the instrument within the new frequency range, reducing the effects of out-of-band noise on the measurements. Designer engineers can purchase one instrument for their highest bandwidth needs and easily optimize it to handle lower-frequency measurements equally well by adjusting the maximum bandwidth in 1 GHz increments down to 500 MHz. The new limited bandwidth is also available at sample rates above the maximum real time sample rate, and is selectable independently on all 4 channels.

Bandwidth Enhancement to the Probe Tip

DSP filtering has been added and complements the acquisition engine providing reliable timing and amplitude resolution and accuracy down to the probe tip for most Z-active™ probes (P7380, P7380SMA, P7313, P7313SMA, and P7360) and new P7500 TriMode™ probes. This optimizes the complete acquisition system performance for best response, enabling engineers to test up to the full bandwidth of the oscilloscope and probe combination with enhanced signal fidelity. This feature is available at sample rates above the maximum real-time sample rate and is selectable independently on all 4 channels.

Pattern Lock Triggering

Pattern Lock adds a new dimension to pattern triggering at data rates up to 6.25 Gb/s NRZ or 8b/10b with internal clock recovery by enabling the oscilloscope to take samples at specific locations in the data pattern with outstanding timebase accuracy. This industry-unique feature accurately and repetitively captures an entire NRZ test pattern for in-depth analysis. Pattern lock triggering may be used to build up an eye diagram from samples taken sequentially through the data pattern. This maintains a specific timing relationship

between samples and allows the oscilloscope to draw the eye based on specific bit trajectories. This feature is standard on DSA70000 Digital Serial Analyzer models, and is included as part of Option PTM on the DPO7000 Series and Option PTH on the DPO70000 Series.

Event Search and Mark

This ability enables an engineer to search through a long acquisition and automatically mark all occurrences of a specified event. The user can even view the search results as an event table rather than viewing them one at a time on the waveforms themselves, providing rapid debugging of faults in complex signal structures. Event Search and Mark will relieve the user from tedious task of examining data by helping him to highlight the important and reduce the unimportant and by facilitating the comprehension of event relationships. A basic event (edge-only) search and mark is provided standard; nine more advanced event types support is provided with the ASM option (Advanced Event Search and Mark) for all DPO7000 and DPO70000 models. Option ASM is included standard with all DSA70000 models.

Additional available features include Waveform Limit Testing, Enhanced Triggering Mode with trigger path compensation, Horizontal Timebase Control, XYZ Mode, and Enhanced FastAcq. These and other features are available as part of Firmware Version 4.0, available now at <http://www.tektronix.com/>. Additional information can be found through your Tektronix representative or at: http://www.tek.com/products/oscilloscopes/dpo70000_dsa70000/?wt=550&link=/products/oscilloscopes/dpo70000_dsa70000/

About Tektronix

Tektronix is a leading supplier of test, measurement, and monitoring products, solutions and services for the communications, computer, and semiconductor industries -- as well as military/aerospace, consumer electronics, education and a broad range of other industries worldwide. With 60 years of experience, Tektronix enables its customers to design, build, deploy, and manage next-generation global communications networks, advanced and pervasive technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is <http://www.tektronix.com/>.

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