

## **New Handheld Tektronix Real-Time Spectrum Analyzers Show Live RF Complete DPX™ Enabled Field to Bench Portfolio Includes New SA2600 and H600 Handhelds**

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Tektronix, Inc., a leading worldwide provider of test, measurement and monitoring instrumentation, announced the new SA2600 handheld Real-Time Spectrum Analyzer that includes DPX™ waveform image processor technology that provides a live RF view of the spectrum (<http://www.tek.com/RTSA/handheld>). DPX is now also available on the H600 "RF Hawk" handheld unit originally introduced in February. With these additions, Tektronix offers a full portfolio of Real-Time Spectrum Analyzers with DPX for use in the field and the design bench.

The rapid expansion of digital RF applications has driven the measurement needs of many applications including mobile communications and spectrum management beyond the capabilities of swept spectrum and vector signal analysis. Digital RF signals carry complex modulation and change from one instant to the next, hopping frequencies, spiking briefly and then disappearing. These transient and time varying transmission techniques help RF devices avoid interference, maximize peak power and, oftentimes, evade detection. Finding and physically locating RF emitters that are misusing the radio spectrum can be a challenging process, especially when risk mitigation and time to response are critical.

"The new Tektronix Real-Time Spectrum Analyzers are designed to offer benchtop performance on a portable handheld platform, specifically to solve problems created by digital RF technologies from WiFi to WiMAX to UWB and UMTS," said Bob Hiebert, general manager, Wireless Field Test Product Line, Tektronix. "The new SA2600 and H600 handheld spectrum analyzers extend the application of DPX to serve a broad range of fielded wireless technologies. These units uniquely assist customers with the discovery of interference and the mapping of wireless technologies in a variety of environments, both indoors and outside."

The explosion of digital RF has created a highly complex technology environment that is moving from the design bench to the field, requiring the need for next generation test and measurement instruments. DPX waveform image processing provides a unique live RF view of the spectrum, enabling an unprecedented RF signal discovery capability for a broad range of applications including radio communications and spectrum management. DPX transforms volumes of real-time data and produces a live RF spectrum display that reveals previously unseen RF signals and signal anomalies.

### **Portable Real-Time Spectrum Analysis with New SA2600**

The SA2600 with 10kHz-6.2GHz frequency coverage, 20 MHz real time bandwidth and -153dBm Displayed Average Noise Level (DANL) is designed to deliver benchtop spectrum analyzer performance in a battery-operated, handheld field unit. With a spectrum processing rate more than 100 times faster than any swept spectrum analyzer from other vendors, the SA2600 and H600 provide 100% probability of intercept for transients with minimum event durations of 500 microseconds on the SA2600 and 125 microseconds on the H600.

The SA2600 and H600 are designed for field measurements. The new models combine a high performance spectrum analyzer with an intuitive set of user controls, allowing for the quick and simple classification and location of both analog and digital RF transmissions. The user interface is designed specifically for enhanced productivity in the field including a touch screen for easy navigation. While other solutions may require

offline GPS and mapping software, the SA2600/H600 includes integrated GPS and mapping tools to allow more efficient interference location capability.

### DPX Makes All the Difference

DPX waveform image processor technology in the SA2600/H600 displays the live spectrum by processing >2,500 or >10,000 spectrum measurements per second respectively. This is orders of magnitude more information than is shown by any other conventional spectrum analyzer without DPX, minimizing the analysis gaps inherent in swept spectrum and vector signal analyzers. To achieve thousands of spectrum measurements per second, DPX makes use of dedicated, real-time hardware to process the incoming signal.

In addition to live RF, the waveform image processor also provides an intensity-graded persistence display that holds anomalies until the eye can see them to show the history of occurrence for dynamic signals and immediate feedback on signal variations over time. This provides engineers the ability to rapidly see on screen both transients and signals that ordinarily could not be seen, either because they are masked by other signals or could only be deduced after time consuming offline analysis. DPX waveform imaging will enhance productivity by quickly capturing elusive anomalies and transient events, improving accuracy and insight, and accelerating design debug.

### SA2600 and H600 Are Part of Digital RF Test Portfolio

Tektronix offers digital RF test tools from signal generation to acquisition. In addition to Real-Time Spectrum Analyzers, Arbitrary Waveform Generators generate ideal, distorted or "real-world" signals. Logic Analyzers enable the capture and analysis of the digital I/Q information to more quickly debug elusive problems within the digital baseband segment of a Digital RF design. Digital oscilloscopes allow measurements of strict timing relationships including signal integrity analysis. With these instruments and supporting software, Tektronix provides what customers need to test demanding digital RF applications.

### Price and Availability

The SA2600 is priced at \$22,900 and the H600 is available for \$38,900. Prices are U.S. MSRP. Customers owning existing H600 units can obtain a free DPX upgrade. All models and options are available for order. Additional information can be found at: <http://www.tek.com/RTSA/handheld>.

### 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, computing and advanced technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is <http://www.tektronix.com/>.

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<http://news.tektronix.com/2008-06-17-New-Handheld-Tektronix-Real-Time-Spectrum-Analyzers-Show-Live-RF>