

Spectrum Management/Surveillance

Accuracy and Insight All Across the Spectrum

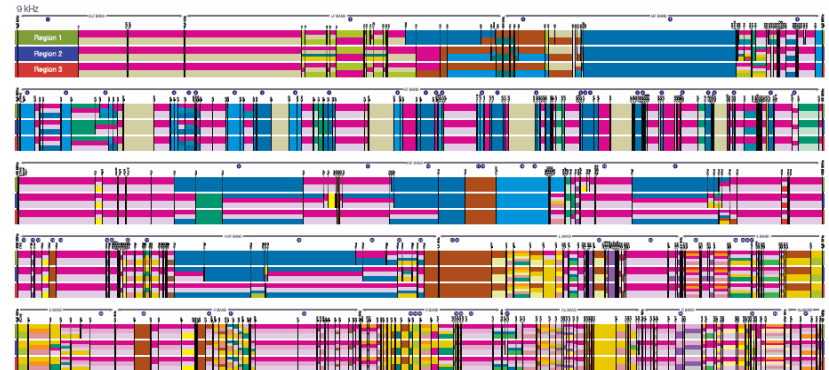
Monitoring, detecting, and mitigating sources of interference, either intentional or unintentional, is a daunting task. With the proliferation of wireless communication services and wireless applications touching every aspect of modern society, the management and monitoring of your spectrum or facility has become increasingly important.

Solve today's demanding signal detection and exploitation challenges with world-class instrumentation for detection, identification, mapping, and hunting down signals or sources of interference. DPX™ Live RF spectrum display will change the way you search and discover elusive signals.

Spectrum Management / Surveillance Challenges:

Signal Monitoring	<ul style="list-style-type: none">▪ Detecting signals of interest with certainty▪ Finding covert signals-within-signals▪ Isolating low-level signals of interest in a crowded spectrum▪ Detecting low-level signals with broad sweeps in narrow Resolution Bandwidths▪ Detecting and characterizing impulse noise▪ Refining measurements on captured data without needing to reacquire signal▪ Collecting and monitoring signals in remote locations
Field Monitoring	<ul style="list-style-type: none">▪ Detecting low level interference▪ Triggering on changes to ambient conditions▪ Mapping signals to the environment both indoors and outdoors▪ Locating signals of interest with simplified Direction Finding▪ Signal classification

Worldwide Spectrum Allocations



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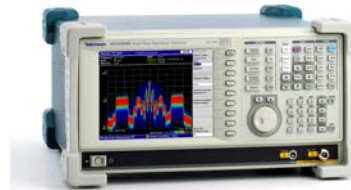
Solutions Fact Sheet



Performance Signal Monitoring

RSA5000/6000 Series Real-time Spectrum Analyzers

- Discover elusive transient, impulse, and signal-within-signal events with 100% probability with over 292,000/s spectrum updates and swept DPX.
- Trigger and isolate spectrum events with 100% probability using patented DPX Density™, Frequency Mask, Frequency Edge, and Time-qualified Triggering
- Capture long event records with up to 110 MHz of bandwidth with deep internal memory or external recording devices
- Analyze signals in multi-domains: time, frequency, and phase vs time, without needing to recapture data
- Speed search testing with the fastest scanning technology for wide spans and narrow resolution bandwidths



Signal Monitoring

RSA3000 Series Real-time Spectrum Analyzers

- Discover elusive transient, impulse, and signal-within-signal events with 100% probability with over 48,000/s spectrum updates
- Trigger and isolate spectrum events with 100% probability using patented frequency mask triggering
- Capture long event records with up to 36 MHz of bandwidth and deep internal memory
- Analyze captured data against common wireless modulation formats
- Perform off-line analysis of recorded data with remote connectivity



Field Monitoring

H600/SA2600 Series Real-time Spectrum Analyzers

- Discover elusive transient, impulse, and signal-within-signal events with 100% probability with up to 10,000/s spectrum updates
- Trigger on changes in ambient or limit thresholds
- Document emission levels with integrated mapping and measurements for indoor and outdoor use
- Locate interference signals faster with simple Direction Finding tools
- Speed interference troubleshooting with built-in automatic signal classification capability

www.tektronix.com/surveillance

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