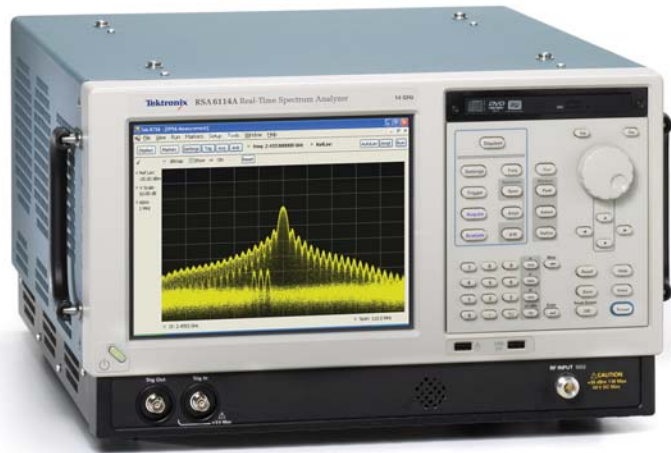


RSA6100A Series Real-Time Spectrum Analyzers

It's Time to Get Real

► Fact Sheet



RSA6100A Series are uniquely able to address the needs of both traditional and new digital RF applications.

Unique DPX™ live spectrum display technology transforms volumes of real-time data into a single-glance visual

The RSA6100A Series will help you to easily discover design issues that other signal analyzers may miss. The revolutionary DPX spectrum display offers an intuitive live color view of signal transients changing over time in the frequency domain, giving you immediate confidence in the stability of your design, or instantly displaying a fault when it occurs. This live display of transients is impossible with other signal analyzers. Once a problem is discovered with DPX, the RSA6100A Series of Real-Time Spectrum Analyzers (RTSA) can be set to trigger on the event, capture a continuous time record of changing RF events and perform time-correlated analysis in all domains. You get the functionality of a wide-band vector signal analyzer, a spectrum analyzer and the unique trigger-capture-analyze capability of a Real-Time Spectrum Analyzer — all in a single package.

Features & Benefits

Discover

- ▶ Revolutionary DPX® Displays Transients with over 48,000 spectrum measurements per second
- ▶ DPX Spectrum Processing Provides an Intuitive Understanding of Time-varying RF Signals with Color-graded Displays Based on Frequency of Occurrence

Trigger

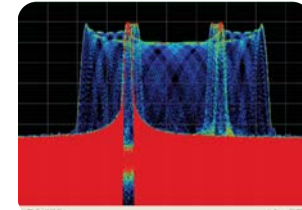
- ▶ Tektronix Exclusive 40 MHz and 110 MHz Frequency Mask Triggers (FMT) Offer Easy Event-based Capture of Transient RF Signals by Triggering on Any Change in the Frequency Domain

Capture

- ▶ All Signals in Up to 110 MHz Spans Are Captured into Memory
- ▶ Up to 1.7 s Acquisition Length at 110 MHz Bandwidth Provides Complete Analysis Over Time Without Making Multiple Acquisitions

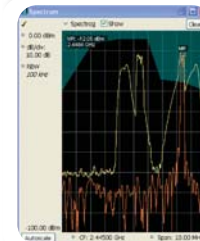
Analyze

- ▶ Extensive Time-correlated Multi-domain Displays Connect Problems in Time, Frequency, Phase and Amplitude for Quicker Understanding of Cause and Effect when Troubleshooting
- ▶ Tektronix OpenChoice® Makes for Easy Transfer to a Variety of Analysis Programs such as Excel and Matlab



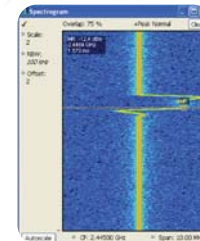
Discover

Live RF with DPX spectrum display



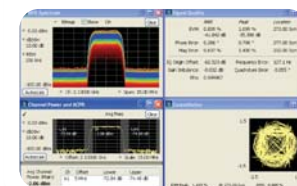
Trigger

110 MHz Frequency Mask Trigger



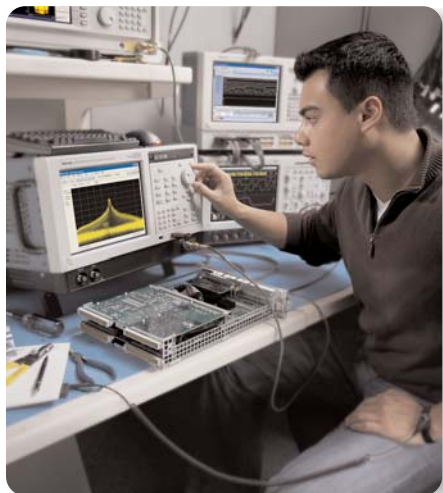
Capture

110 MHz BW with 73dB dynamic range



Analyze

Time correlation between analysis domains



► **Performance Overview**

Frequency

6.2 GHz and 14 GHz models

Real-Time Bandwidth

40 MHz (110 MHz, Optional)

DPX Display

More than 48,000 spectral measurements per second

Trigger

Time, Frequency and External Triggers

Dynamic Range

-73 dBc at 110 MHz Bandwidth

Record Length

1.7 seconds @ 110 MHz

Software Options

Advanced Signal Analysis (Pulse Measurements)
RSAVu Analysis Software

Usability

10.4 inch Display, Removable HDD, Windows UI,
USB ports, Tek OpenChoice™

► **Ordering Information**

RSA6106A

Real-Time Spectrum Analyzer, 9 kHz to 6.2 GHz.

RSA6114A

Real-Time Spectrum Analyzer, 9 kHz to 14 GHz.

Both Include: Quick Start Manual (printed), User manual, Programmer's manual (on CD), power cord, BNC-N adapter, USB keyboard, USB mouse, pouch, front cover. Please specify power plug and language options when ordering.

Options

Opt. 01 – Internal Preamp, 10 MHz to 3 GHz, 30 dB gain, 4 dB Noise Figure at 2 GHz, typical.

Opt. 02 – 1 GB Memory, Frequency Mask Trigger.

Opt. 05 – Digital IQ Output and 500 MHz Analog IF output.

Opt. 06 – Removable HDD.

Opt. 07 – DVD-RW, Required option, no-cost (not compatible with Opt. 06).

Opt. 20 – Advanced Signal Analysis (including pulse measurements)

Opt. 21 – General Purpose Modulation Analysis.

Opt. 110 – 110 MHz Real-time Capture BW.

Opt. 1R – Rackmount.

Our most up-to-date product information is available at: www.tektronix.com



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