



RSA6000 Series Spectrum Analyzer



Feature

5 kHz ~ 26.5 GHz

Frequency Range

200MHz

Real-Time / Analysis BW

4THz/s

Sweep Speed

-163 dBm(typ.)

DANL(1GHz)

-108dBc/Hz(typ.)

Phase Noise(1GHz, 10kHz)

±0.7dB

Amplitude Accuracy

The Power Tool for Engineers Breaking Boundaries in Spectrum Analysis

RIGOL RSA6000 Series Real-Time Spectrum Analyzer, built on the upgraded UltraReal platform, combines high-performance signal capture, advanced analysis, and portable design—breaking free from traditional lab constraints.

With one-click mode switching, remote Web Control, and a lightweight form factor, it's a core platform for R&D, validation, and troubleshooting—delivering high-end performance in a truly portable form.

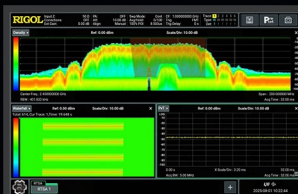
Benefits

- **5 kHz to 26.5 GHz frequency range** — from low-frequency comms to microwave radar.
- **200 MHz real-time bandwidth, 4 THz/s sweep speed** — capture fast, transient signals with precision.
- **Rich signal analysis & demodulation** within 200 MHz bandwidth.
- **Five modes in one device:** GPSA, RTSA, VSA, EMI, ADM — ideal for R&D, production, and compliance.
- **Built-in preamp and tracking generator** — ready to use, no external modules required.
- **Compact and portable**, easy to deploy in the field.
- **Touch + key operation**, supports **Web Control** for remote access.
- **USB, LAN, HDMI interfaces**, SCPI compatible — ready for integration and automation.

All-in-One Platform · Five Modes in One



Next-Level Performance · Real-Time Transient Capture



Reveal the Full Truth of Every Signal

Up to 200 MHz real-time bandwidth, RSA6000 captures every burst, hop, and anomaly—without loss or delay.



Full Spectrum Visibility in Milliseconds

With up to 4THz/s scan speed and FMT trigger, RSA6000 captures dense, wideband signals in seconds—so no transient is missed, even in interference-heavy environments.

Ultra-Portable Design · Deploy Anywhere, Anytime

121 mm

358 mm

214 mm

5.3 kg

Small in size, light in weight—the A Series fits seamlessly into lab benches, factory setups.

Application

Spectrum Monitoring

- Real-time signal detection
- Frequency occupancy & compliance
- Illegal transmission tracking

Wireless & RF Testing

- Gain, loss, harmonics, spurs, IMD
- Spectrum & interference analysis
- EVM and constellation validation

R&D & Production

- RF performance validation
- Noise/interference troubleshooting
- Fast production line verification

Research & Education

- RF teaching & lab experiments
- Academic research & innovation

EMC / EMI

- Conducted/radiated tests
- PCB emission localization
- Pre-compliance diagnostics

Order Information

Description		Order No.
Model	Real-time Spectrum Analyzer, 5 kHz ~ 8.5 GHz	RSA6085
	Real-time Spectrum Analyzer, 5 kHz ~ 14 GHz	RSA6140
	Real-time Spectrum Analyzer, 5 kHz ~ 26.5 GHz	RSA6265
Standard Accessory	Power Cord	-
Options	Vector Signal Analysis Application Software	RSA6000-VSA
	EMI Measurement Application Software	RSA6000-EMI
	Analog Demodulation Application Software	RSA6000-ADM
	Advanced Measurement Kit	RSA6000-AMK
	Preamplifier (PA), 8.5 GHz	RSA6000-P08
	Preamplifier (PA), 14 GHz	RSA6000-P14
	Preamplifier (PA), 26.5 GHz	RSA6000-P26
	8.5 GHz Tracking Generator Output	RSA6000-T08
	200 MHz Analysis Bandwidth	RSA6000-B200
	200 MHz Real-time Bandwidth	RSA6000-RB200



RIGOL Website: www.rigol.com

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