RIGOL
Innovation or nothing

RSA5000 Series

Real-Time Spectrum Analyzer

RSA5000 Options and Accessories

RSA5065	6.5GHz Host	RSA5000-B25	25MHz RealTime Bandwidth
RSA5032	3.2GHz Host	RSA5000-B40	40MHz RealTime Bandwidth
RSA5000-TG6	6.5GHz Tracking Generator	OCXO-C08	High Stability Clock
RSA5000-TG3	3.2GHz Tracking Generator	RM6041	Rack Mount Kit
RSA5000-PA	Pre Amplifier	Ultra Spectrum	DSA PC Software
RSA5000-VSWR	VSWR Measurement	S1210	EMI Pre Test PC Software
RSA5000-AMK	Advanced Measurement		

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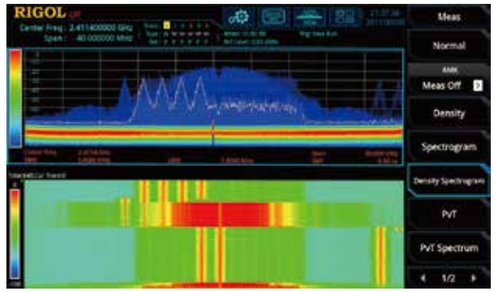
RSA5000 Series
Real-Time Spectrum Analyzer

UltraReal

Application Area

- Radio monitoring
- Capture and analyze wireless communication signals
- Frequency hopping radio system test
- Radar signal test
- RFID, NFC signal test
- Diagnostic electronic circuit design issues
- EMI pre test with standard

10.1 inch capacitive screen, multi touch, gestureoperation



Spectrogram Persistence and other modes forgapless spectrum display

RSA5000 Series

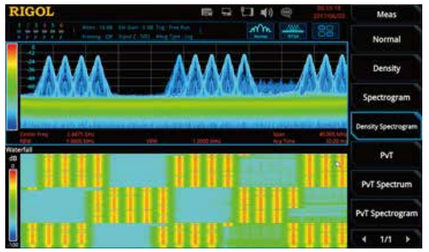
RSA5065: 9kHz to 6.5GHz

RSA5032: 9kHz to 3.2GHz

- Frequency Stability: 0.5ppm, Option: 0.005ppm
- Phase Noise: –108dBc/Hz (tpy.)
- DNAL: –165dBm (tpy.)
- RBW: 1Hz to 10MHz
- Full Amplitude Accuracy: <0.5dB
- Sweep Time: 1ms
- RTBW: 10MHz Option: 25MHz/40MHz
- FFT Rate: 146,484/s
- POI: 7.45 μ s
- SFDR: <60dBc (typ.)
- EMC Mode: RBW(–6dB): 200Hz, 9kHz, 120kHz, 1MHz

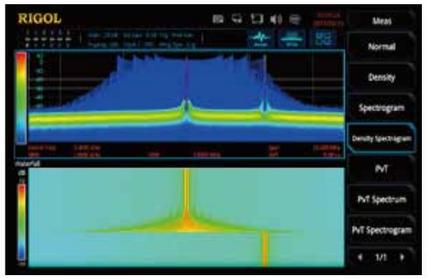
Analyzing Specific Signal Using FMT

FMT templates provide a powerful tool for reliable detection and analysis of dynamic RF signals.



Capture Frequency Hopping Signal

Real time spectrum analyzer can seamlessly collect the whole process of frequency hopping signal.



PLL Lock Process Analysis

The stability time of phase locked loop can be observed directly by using the measurement results of frequency changes with time under RTSA.

RSA5000 Series
Measurement Application

Radio spectrum monitoring

RSA5000 Series in RTSA mode have a 100% POI of 7.45 μ s . This is accomplished as the UltraReal technology processes up to 146,484 FFT of every second. This capability provides an incredible advantage for spectrum monitoring applications.

WiFi Signal Test

RSA5000 series, providing large real–time bandwidth, to meet the test requirements of WiFi and other communication signals.