

# SSA3000X-R

## Real-Time Spectrum Analyzer

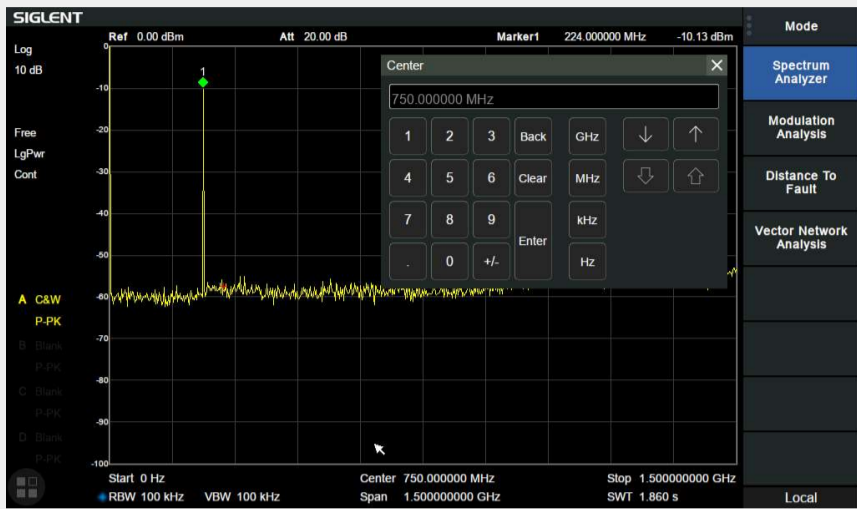


### Features and Benefits

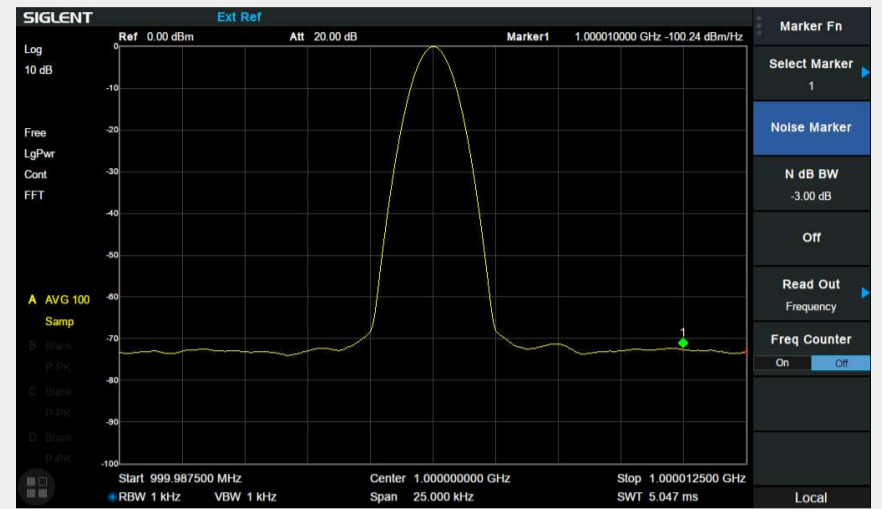
- Spectrum Analyzer Frequency Range from 9 kHz up to 5.0 GHz / 7.5 GHz
- -165 dBm/Hz Displayed Average Noise Level (Typ.)
- -98 dBc/Hz.@10 kHz Offset Phase Noise (1 GHz, Typ.)
- Level Measurement Uncertainty < 0.7 dB (Typ.)
- 1 Hz Minimum Resolution Bandwidth (RBW)
- Preamplifier Standard
- Tracking Generator Standard
- Up to 40 MHz Real Time Analysis Bandwidth
- 100% POI 7.20  $\mu$ s, Dynamic Range 60 dB
- Multi-view for Density, Spectrogram, PvT, and multi trigger and FMT
- Modulation Analysis up to 40 MHz BW (Opt.)
- Reflection Measurement Kit (Opt.)
- EMI Filter and Quasi-Peak Detector Kit(Opt.)
- Advanced Measurement Kit (Opt.)
- 10.1 inch Multi-Touch Screen , Mouse and Keyboard supported
- Web Browser Remote Control on PC and Mobile Terminals and File Operation

**Design features**

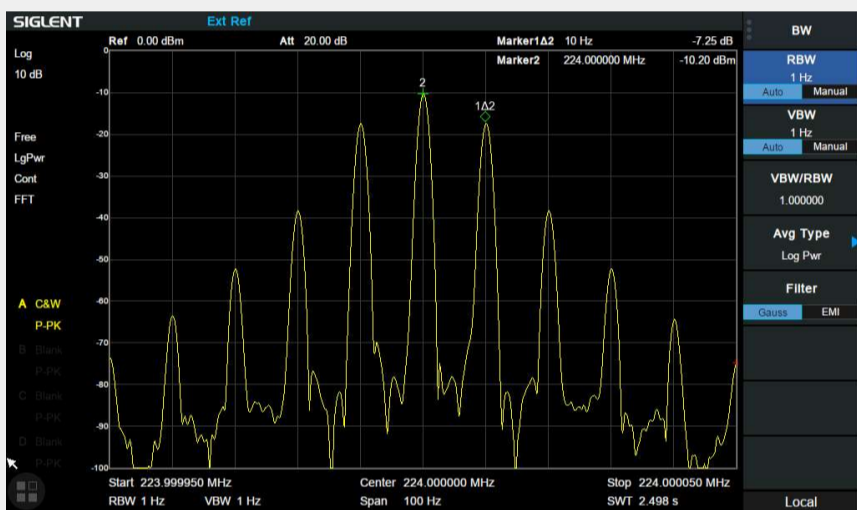
• 10.1 Inch Display with Multi-Touch Screen



• Phase noise <-98 dBc/Hz@1 GHz



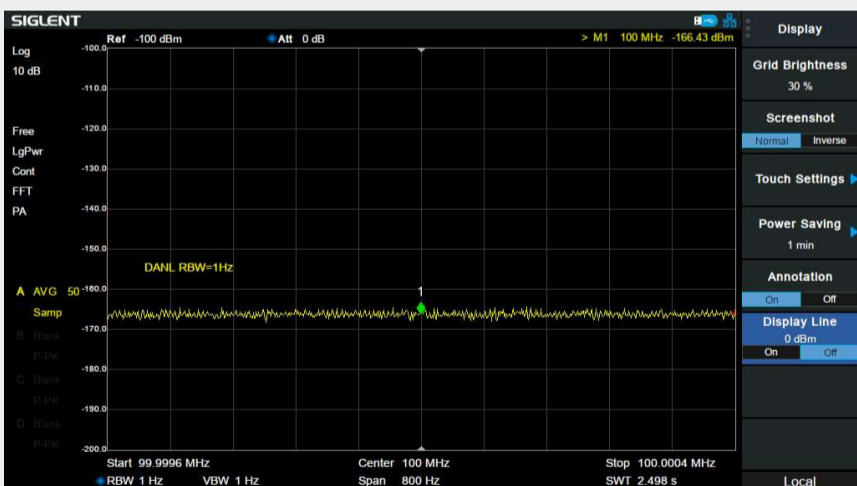
• Minimum 1 Hz Resolution Bandwidth (RBW)



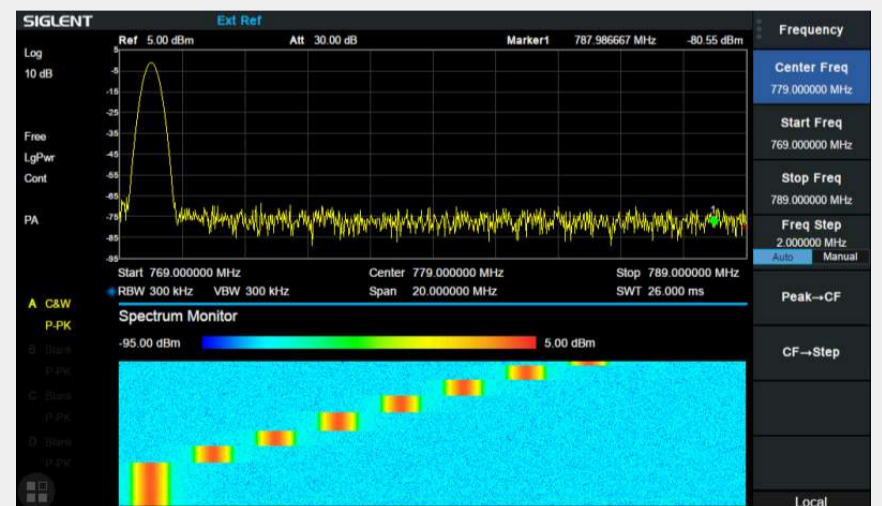
• ACPR in Advanced Measurement Kit



• -165 dBm/Hz Displayed Average Noise Level



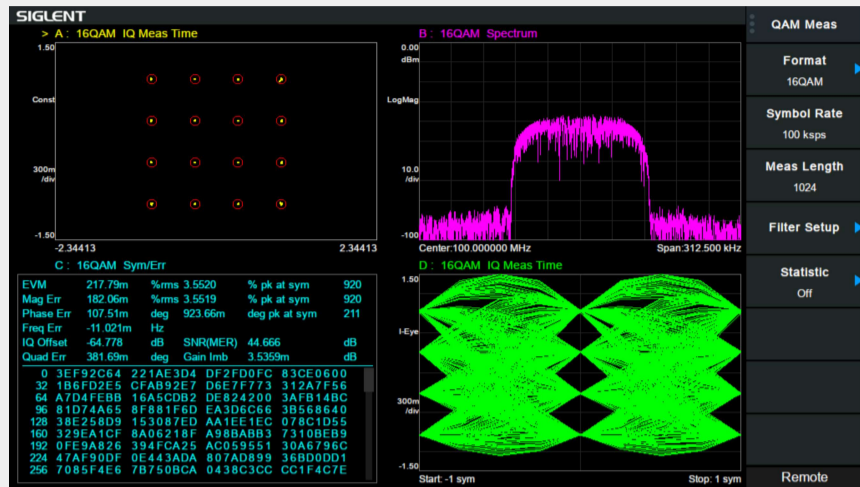
• Monitor in Advanced Measurement Kit



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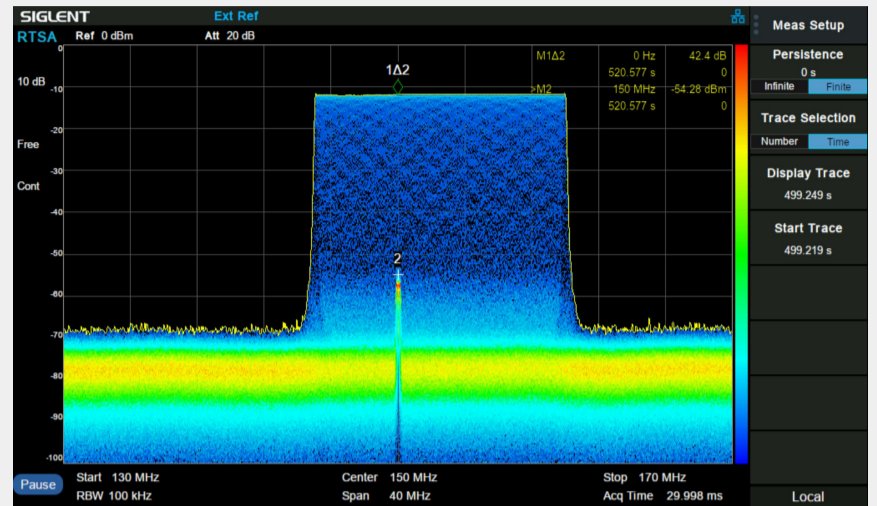
## • Modulation Analysis Mode

AM/FM, ASK/FSK/PSK/MSK/QAM Vector Signal Modulation Analysis and EVM evaluation. The analysis BW is same with real-time BW in RTSA mode



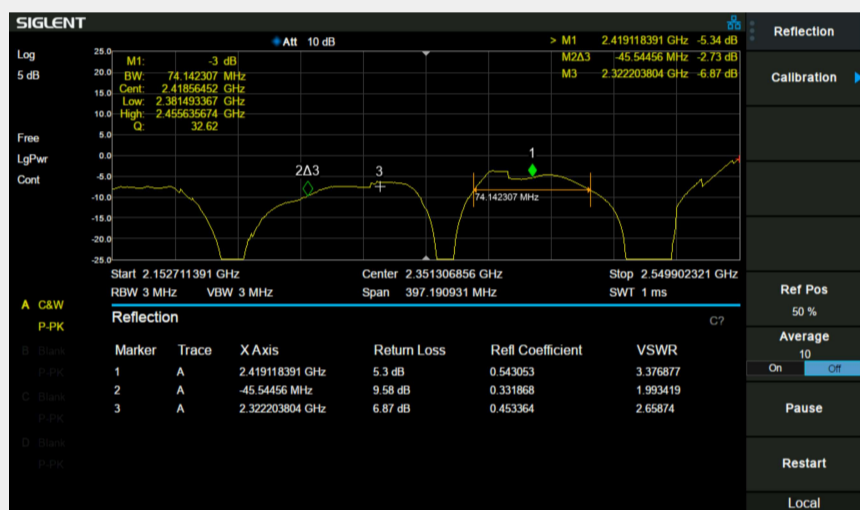
## • Real Time Analysis Mode

Density, 3D, Spectrogram, PVT, Multi-view and dimensions to monitor complex signals



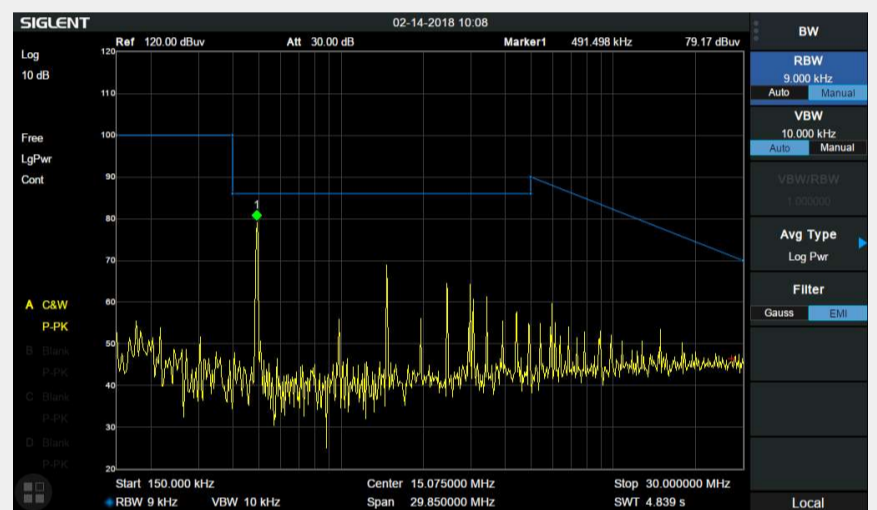
## • Reflection Measurement

VSWR and Return Loss measurement with Q value measurement



## • EMI Pre-Compliance Test

CISPR 16-1-1 EMI filter and Quasi-peak Detector, Log scale and Limit line



## Model and Main index

Model	SSA3050X-R	SSA3075X-R
Frequency Range	9 kHz~5.0 GHz	9 kHz~7.5 GHz
Resolution Bandwidth	1 Hz~3 MHz	1 Hz~3 MHz
Displayed Average Noise Level	-165 dBm/Hz	-165 dBm/Hz
SSB Phase Noise	<-98 dBc/Hz	<-98 dBc/Hz
Total Amplitude Accuracy	< 0.7 dB	< 0.7 dB
Tracking Generator	100 kHz - 5.0 GHz	100 kHz - 7.5 GHz
Real Time Band Width	25 MHz, 40 MHz (Option)	
SFDR	60 dB	
100% POI	7.20 μs	
RTSA Measurement	Density, Spectrogram, 3D, PVT	
Touch Screen	Multi Touch, Mouse and Keyboard supported	
Advanced Measurement	CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor	
Modulation Analysis	AM, FM, ASK, FSK, MSK, PSK, QAM	
Reflection Measurement	VSWR measurement using Reflection Bridge	
EMI Test	EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line	
Communication Interface	LAN, USB Device, USB Host (USB-GPIB)	
Remote Control Capability	SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet	
Remote Controller	NI-MAX, Web Browser, Easy Spectrum software, File Explorer	



## Ordering Information

Product	Description	Order Number
Product Code	Real Time Spectrum Analyzer, 5.0 GHz	SSA3050X-R
	Real Time Spectrum Analyzer, 7.5 GHz	SSA3075X-R
Standard Accessories	Quick Start, USB Cable, Power Cord	
Common Options and Accessories	Advanced Measurement Kit	SSA3000XR-AMK
	Utility Kit: N(M)-SMA(M) cable, N(M)-N(M) cable, N(M)-BNC(F) adaptor (2 pcs), N(M)-SMA(F) adaptor (2 pcs), 10 dB attenuator	UKitSSA3X
	N(M)-SMA(M) cable, 70cm, 6 GHz	N-SMA-6L
	N(M)-N(M) cable, 70cm, 6 GHz	N-N-6L
	N(M)-BNC(M) cable, 70cm, 2 GHz	N-BNC-2L
	N(M)-SMA(M) cable, 100cm, 18 GHz	N-SMA-18L
	N(M)-N(M) cable, 100cm, 18 GHz	N-N-18L
	USB-GPIB Adaptor	USB-GPIB
	Soft carrying bag	BAG-S2
	6U Rack Mount Kit	SSA-RMK
Real-Time Options	40 MHz Real-Time BandWidth	SSA3000XR-RT40
Reflection Measurement Options	Reflection Measurement	SSA3000-RefI
	Reflection Bridge Kit: Reflection Bridge (1 MHz ~ 2.5 GHz), N(M)-N(M) adaptors (2 pcs)	RB3X25
EMI test Options	EMI Measurement Kit: EMI Filter and Quasi Peak Detector, EMI Receiver Mode in EasySpectrum Software	SSA3000XR-EMI
	300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm)	SRF5030T
Modulation Analysis Options	Analog Modulation Analysis: AM, FM	SSA3000XR-AMA
	Digital Modulation Analysis: ASK, FSK, MSK, PSK, QAM. The analysis BW is the real-time BW in RTSA mode	SSA3000XR-WDMA