



SIGLENT TECHNOLOGIES

RF PRODUCT CATALOG

- Spectrum Analyzer
- Vector Network Analyzer
- RF/MW Signal Generator
- Spectrum & Vector Network Analyzer
- RF/MW Signal Generator



CATALOG

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Company Profile

SIGLENT TECHNOLOGIES Co., Ltd.

The Best Value in Electronic Test & Measurement.

SIGLENT has been providing test & measurement solutions for almost 15 years from its headquarter in Shenzhen, China. There are more than 300 employees, one third of whom are high-educated R&D engineers.

SIGLENT has many patent technologies. We are dedicated to develop sophisticated and high quality digital oscilloscopes, waveform generators, RF signal generators, handheld digital oscilloscopes, spectrum analyzers, vector network analyzers and DC power supplies, DC Electronic Loads, digital multimeters. We strive to deliver the highest quality of customer service and satisfaction to our customers.



SIGLENT provides the following instruments:

- Digital Oscilloscope
- Handheld Oscilloscope
- Waveform Generator
- RF/MW Signal Generator
- Spectrum Analyzer
- Vector Network Analyzer
- DC Power Supply
- DC Electronic Load
- Digital Multimeter
- Probes & Accessories

SIGLENT sincerely invite you to join

Please email :

sales@siglent.com





SNA5000A

Vector Network Analyzer



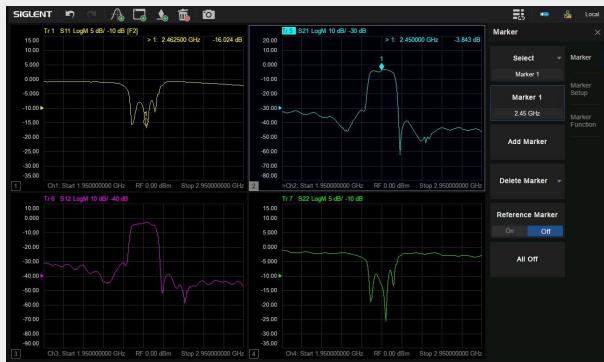
Features and Benefits

- Frequency range: 9 kHz - 8.5 GHz
- Frequency resolution: 1 Hz
- Level resolution: 0.05 dB
- Range of IFBW: 10 Hz~3 MHz
- Setting range of output level: -55 dBm ~ +10 dBm
- Dynamic range: 125 dB
- Types of calibration: Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, Full-three port calibration, Full-four port calibration, TRL calibration
- Types of measurement: Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, limit test, ripple test, impedance conversion, fixture simulation, adapter removal/insertion
- Support Bias-Tees
- Interface: LAN, USB Device, USB Host(USB-GPIB)
- Remote control: SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet/WebServer
- 12.1-inch touch screen
- Video output: HDMI

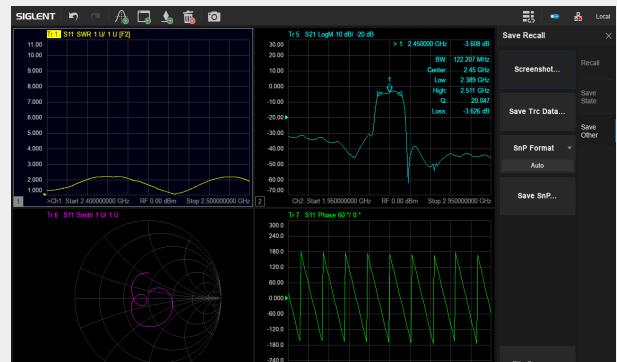


Design features

• Multi-window display



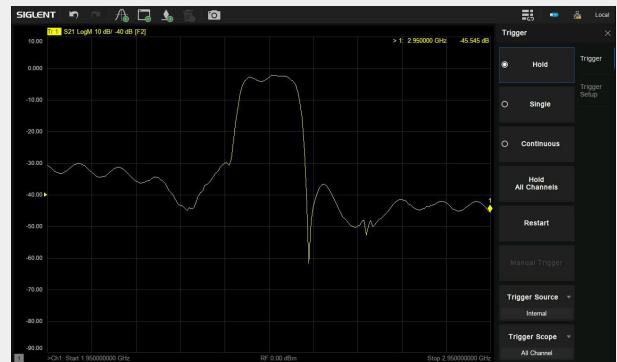
• Multi-format display



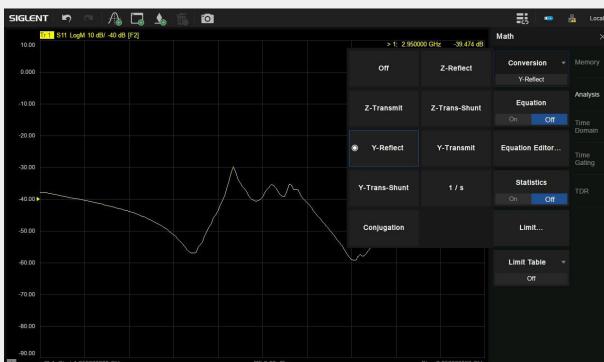
• Display and compare memory and current data



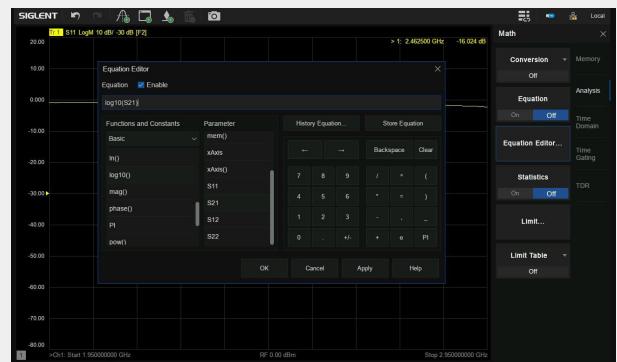
• Display data hold



• Impedance conversion

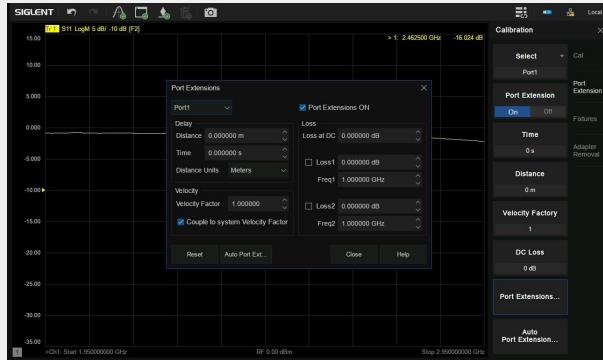


• Equation Editor

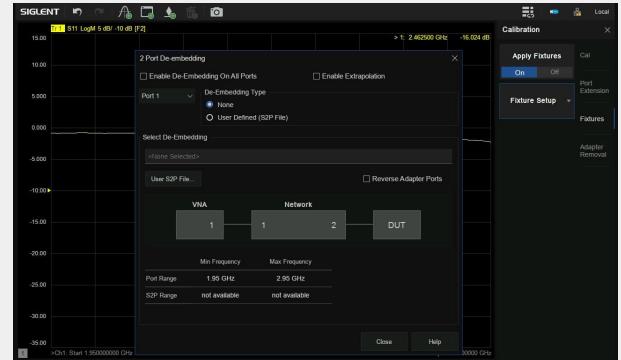


SSNA5000A Vector Network Analyzer

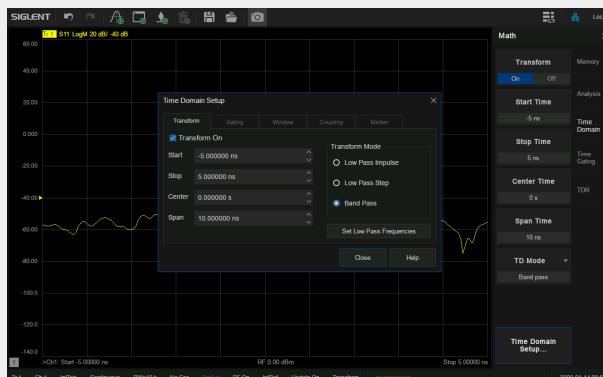
● Port Extensions



● Embedding and De-Embedding



● Time-Domain analysis



● Enhanced Time-Domain analysis(TDR)



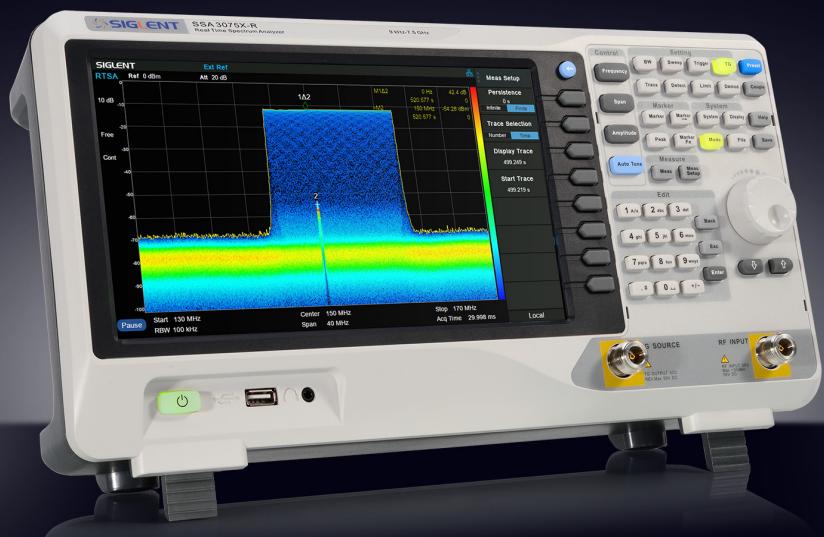
Model and Main index

| Model | SNA5002A | SNA5012A | SNA5004A | SNA5014A |
|-------------------------------|--|---------------|---------------|---------------|
| Frequency range | 9 kHz~4.5 GHz | 9 kHz~8.5 GHz | 9 kHz~4.5 GHz | 9 kHz~8.5 GHz |
| Ports | 2 | 2 | 4 | 4 |
| Frequency resolution | 1 Hz | | | |
| Level resolution | 0.05 dB | | | |
| Range of IFBW | 10 Hz~3 MHz | | | |
| Setting range of output level | -55 dBm ~ +10 dBm | | | |
| Dynamic range | 125 dB | | | |
| Types of calibration | Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, Full-three port calibration, Full-four port calibration, TRL calibration | | | |
| Types of measurement | Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, limit test, ripple test, impedance conversion, fixture simulation, adapter removal/insertion, enhanced time-domain parameter analysis(TDR) | | | |
| Bias-Tees | Support | | | |
| Interface | LAN, USB Device, USB Host(USB-GPIB) | | | |
| Remote control | SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet/WebServer | | | |
| Display | 12.1-inch touch screen | | | |
| Video output | HDMI | | | |



Ordering Information

| Items | Description | Order number |
|----------------------|--|--------------|
| Products | 2 ports, 4.5G Vector Network Analyzer | SNA5002A |
| | 2 ports, 8.5G Vector Network Analyzer | SNA5012A |
| | 4 ports, 4.5G Vector Network Analyzer | SNA5004A |
| | 4 ports, 8.5G Vector Network Analyzer | SNA5014A |
| Standard Accessories | One Quick-start, one Power-cable, one USB-cable, One calibration-certificate | |
| Optional Accessories | High-performance reference source | SNA5000-HPR |
| | Time-Domain analysis | SNA5000-TDA |
| | Enhanced Time-Domain analysis | SNA5000-TDR |
| | N-type, Male, 50Ω Calibration Kit, 0-4.5GHz | F503ME |
| | N-type, Female, 50Ω Calibration Kit, 0-4.5GHz | F503FE |
| | 3.5 mm, Male, 50Ω Calibration Kit, 0-4.5GHz | F603ME |
| | 3.5 mm, Female, 50Ω Calibration Kit, 0-4.5GHz | F603FE |
| | N-type, Male, 50Ω Calibration Kit, 0-9GHz | F504MS |
| | N-type, Female, 50Ω Calibration Kit, 0-9GHz | F504FS |
| | N-type, Male and Female, 50Ω Calibration Kit, 0-9GHz | F504TS |
| | 3.5 mm, Male, 50Ω Calibration Kit, 0-9GHz | F604MS |
| | 3.5 mm, Female, 50Ω Calibration Kit, 0-9GHz | F604FS |
| | 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-9GHz | F604TS |



SSA3000X-R

Real-Time Spectrum Analyzer



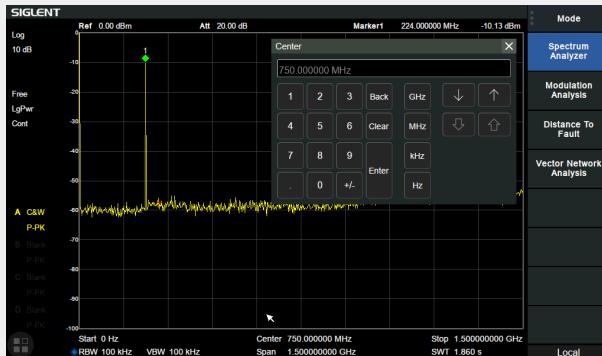
Features and Benefits

- 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 μ 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

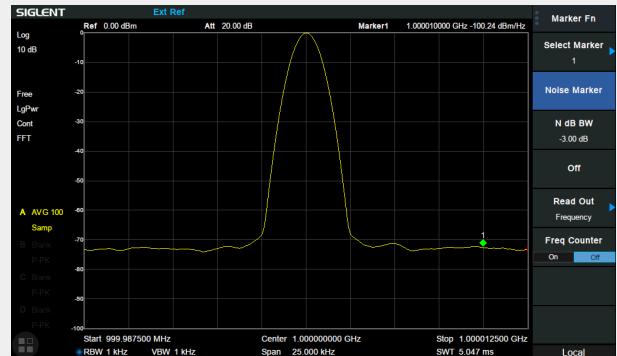


Design features

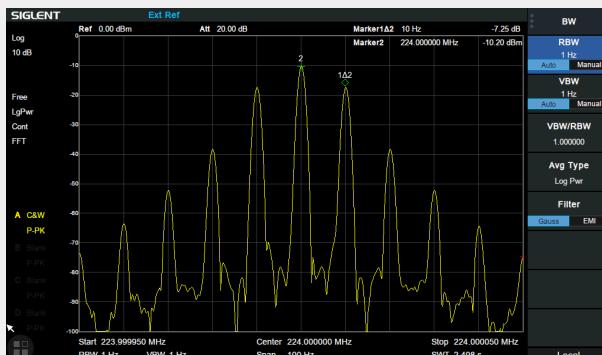
• 10.1 Inch Display with Multi-Touch Screen



• Phase noise <-98 dBc/Hz@1 GHz



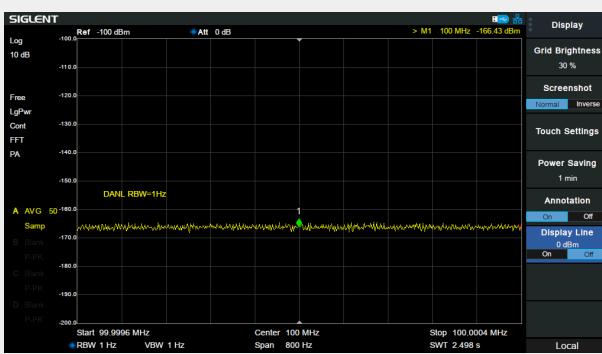
• Minimum 1 Hz Resolution Bandwidth (RBW)



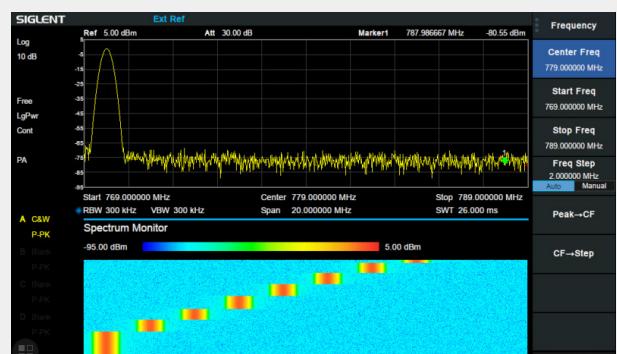
• ACPR in Advanced Measurement Kit



• -165 dBm/Hz Displayed Average Noise Level



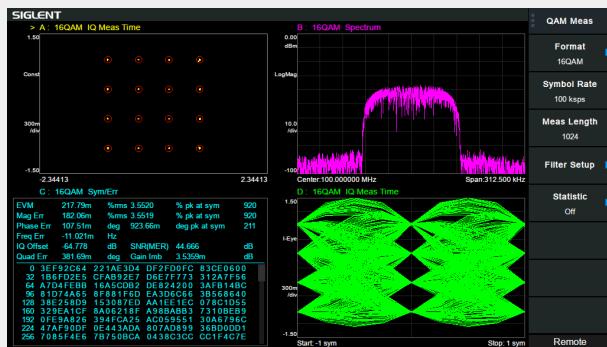
• Monitor in Advanced Measurement Kit



SSA3000X-R Real-Time Spectrum Analyzer

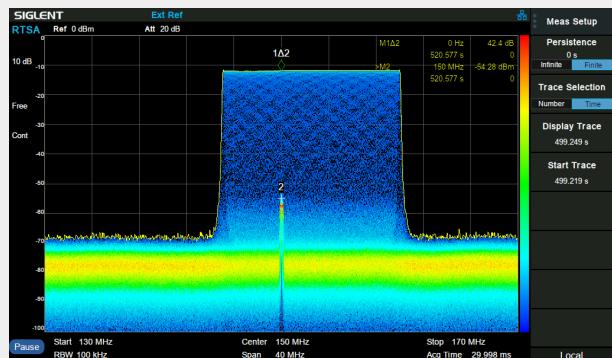
● Modulation Analysis Mode

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



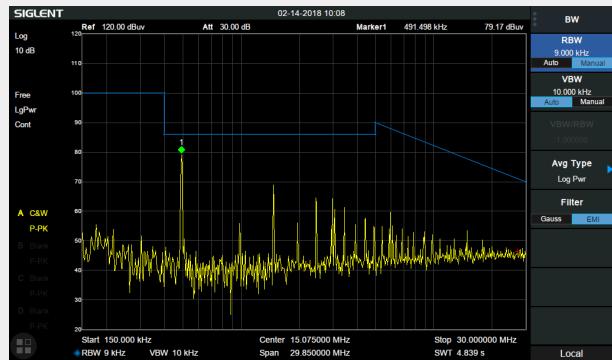
● Reflection Measurement

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 ps | |
| 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 |
| Real-Time Options | 6U Rack Mount Kit | SSA-RMK |
| | 40 MHz Real-Time BandWidth | SSA3000XR-RT40 |
| Reflection Measurement Options | Reflection Measurement | SSA3000-Refl |
| | 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 |



SSA3000X Plus

Spectrum Analyzer



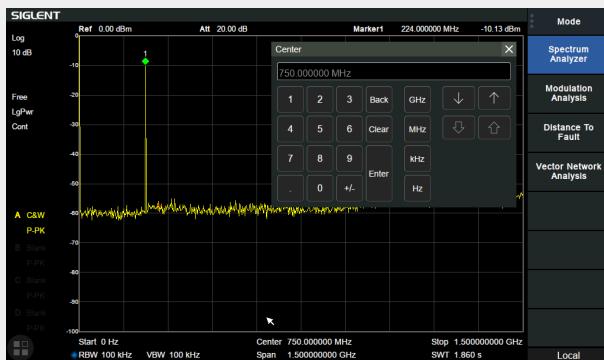
Features and Benefits

- Frequency Range from 9 kHz up to 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 included at no charge
- Vector Signal Modulation Analysis (Opt.)
- EMI Filter and Quasi-Peak Detector (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

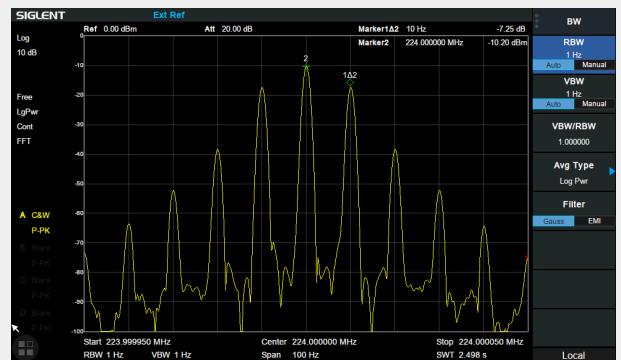


Design features

• 10.1 Inch (1024x600) Touch Screen

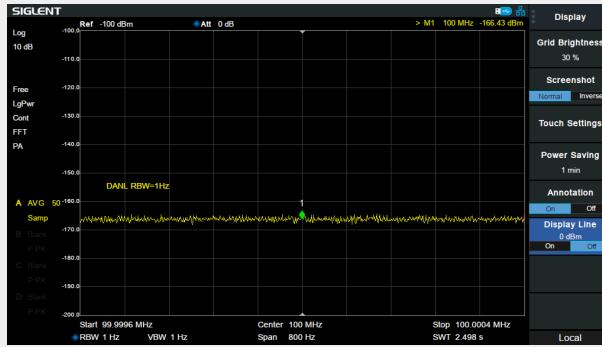


• Minimum 1 Hz Resolution Bandwidth (RBW)

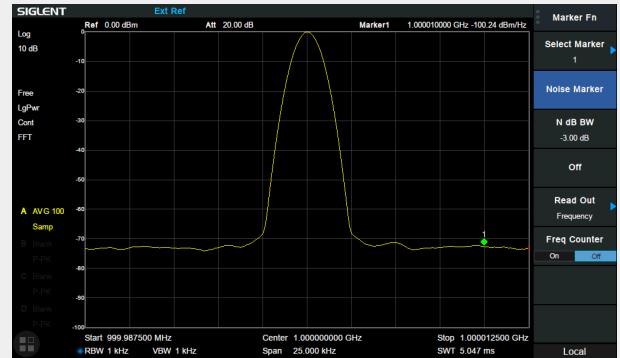


SSA3000X Plus Spectrum Analyzer

• -165 dBm/Hz Displayed Average Noise Level



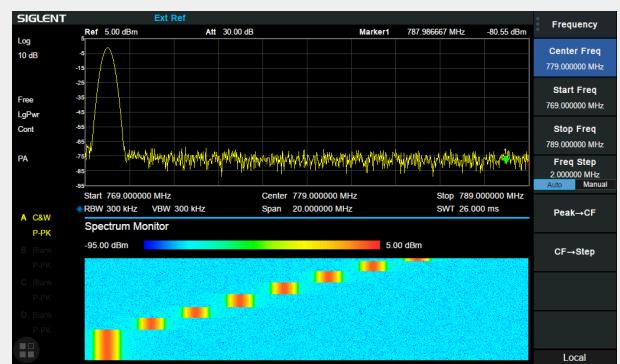
• Phase noise <-98 dBc/Hz@1 GHz



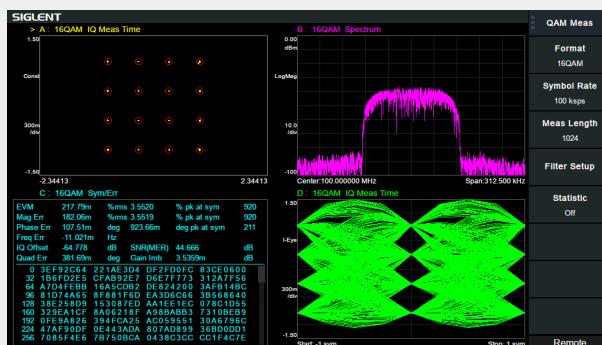
• Advanced Measurement Kit



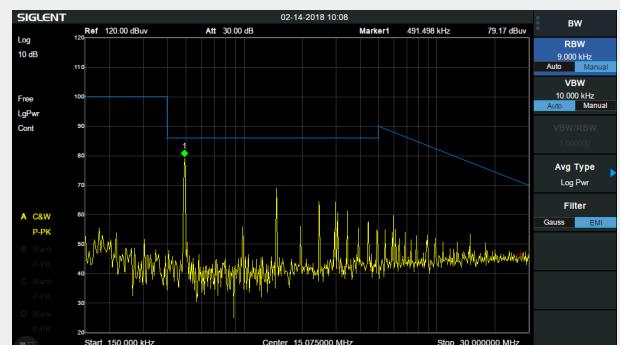
• Spectrum Monitor in Advanced Measurement Kit



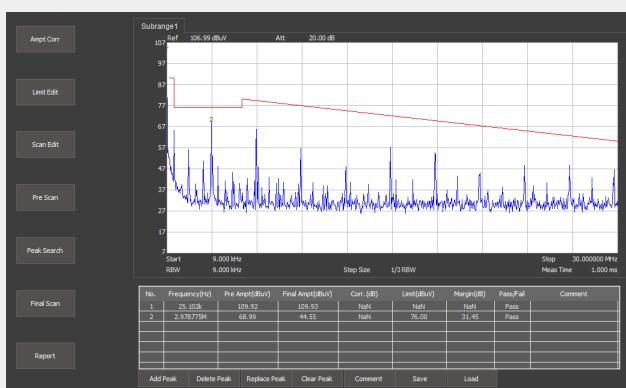
• Digital Modulation Analysis Mode



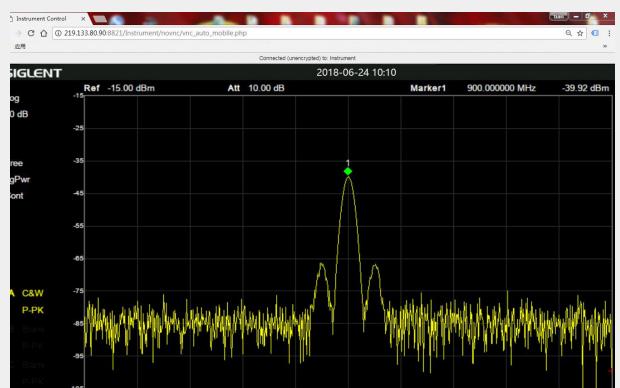
• EMI filter and Quasi-peak Detector for EMI Pre-compliance Test



• Easy Spectrum^T Software for Free



• Remote Control on Web Browser





Model and Main index

| Model | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
|-------------------------------|--|-----------------|-----------------|
| Frequency Range | 9 kHz ~ 2.1 GHz | 9 kHz~3.2 GHz | 9 kHz~7.5 GHz |
| Resolution Bandwidth | 1 Hz~1 MHz | 1 Hz~1 MHz | 1 Hz~3 MHz |
| Displayed Average Noise Level | -161 dBm/Hz | -161 dBm/Hz | -165 dBm/Hz |
| SSB Phase Noise | < -98 dBc/Hz | <-98 dBc/Hz | <-98 dBc/Hz |
| Total Amplitude Accuracy | < 0.7 dB | < 0.7 dB | < 0.7 dB |
| Tracking Generator | 100 kHz ~ 2.1 GHz | 100 kHz~3.2 GHz | 100 kHz~7.5 GHz |
| Touch Screen | Multi Touch, Mouse and Keyboard supported | | |
| Advanced Measurement | CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor | | |
| Reflection Measurement | VSWR measurement using Reflection Bridge | | |
| EMI Test | EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line | | |
| Modulation Analysis | AM, FM; ASK, FSK, MSK, PSK, QAM | | |
| 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 | Spectrum Analyzer, 9 kHz ~ 2.1 GHz | SSA3021X Plus |
| | Spectrum Analyzer, 9 kHz ~ 3.2 GHz | SSA3032X Plus |
| | Spectrum Analyzer, 9 kHz ~ 7.5 GHz | SSA3075X Plus |
| Standard Accessories | Quick Start, USB Cable, Power Cord | |
| | Tracking Generator | SSA3000XP-TG |
| | Advanced Measurement Kit | SSA3000XP-AMK |
| | Utility Kit: N(M)-SMA(M) cable (6 GHz), N(M)-N(M) cable (6 GHz), N(M)-BNC(F) adaptor x 2, N(M)-SMA(F) adaptor x 2, 10 dB 1W attenuator | UKitSSA3X |
| Common Options and Accessories | 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 |
| | USB-GPIB Adaptor | USB-GPIB |
| | Soft carrying bag | BAG-S2 |
| | 6U Rack Mount Kit | SSA-RMK |
| | Tracking Generator | SSA3000XP-TG |
| | Reflection Measurement | SSA3000-Refl |
| Reflection Measurement Options | Reflection Bridge Kit: Reflection Bridge (1 MHz ~ 2.5 GHz), N(M)-N(M) adaptors (2 pcs) | RB3X25 |
| | 50 Ω, N type Male, 4.5 GHz Economic Calibration Kit: Open(M), Short(M), Match(M), Through Adapter(F-F) | F503ME |
| EMI test Options | EMI Measurement Kit: EMI Filter and Quasi Peak Detector, EMI Receiver Mode in EasySpectrum Software | SSA3000XP-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 | Digital Modulation: ASK, FSK, MSK, PSK, QAM | SSA3000XP-DMA |
| | Analog Modulation: AM, FM | SSA3000XP-AMA |



SSA3000X

Spectrum Analyzer



Features and Benefits

- All-Digital IF Technology
 - Frequency Range from 9 kHz up to 3.2 GHz
 - -161 dBm/Hz Displayed Average Noise Level (Typ.)
 - -98 dBc/Hz @10 kHz Offset Phase Noise (1 GHz, Typ.)
 - Total Amplitude Accuracy < 0.7 dB
 - 1 Hz Minimum Resolution Bandwidth (RBW)
 - Preamplifier Standard
 - Up to 3.2 GHz Tracking Generator Kit
 - Reflection Measurement Kit (Opt.)
 - Advanced Measurement Kit (Opt.)
 - EMI Pre-compliance Measurements Kit (Opt.)
 - 10.1 Inch WVGA (1024x600) Display

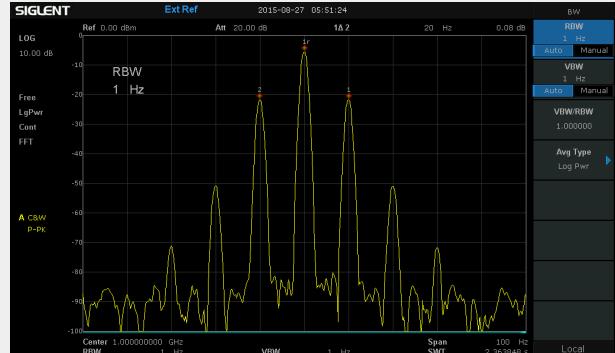


Design features

- Support four traces and cursors independently

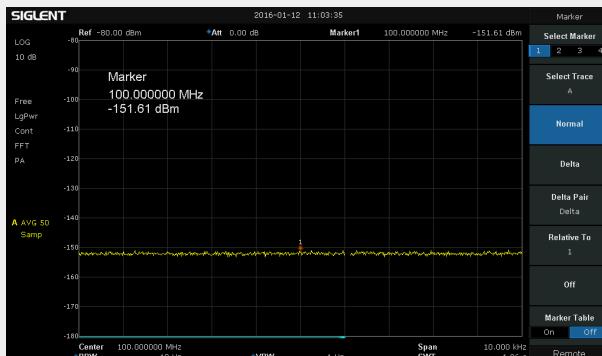


- **1 Hz Minimum Resolution Bandwidth (RBW)**

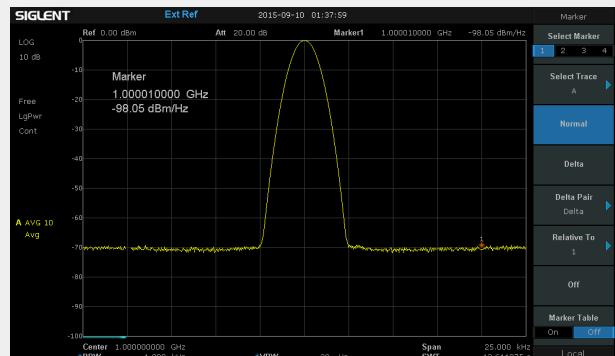


SSA3000X Spectrum Analyzer

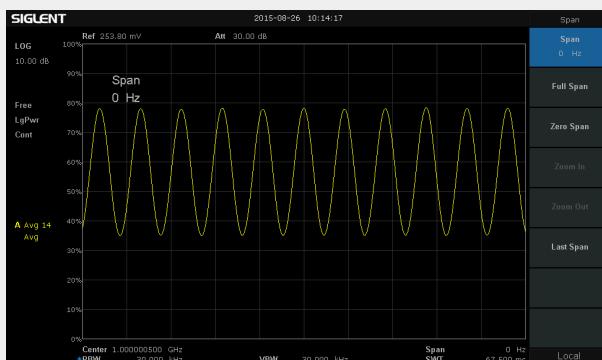
- 151 dBm Displayed Average Noise Level (RBW=10 Hz)



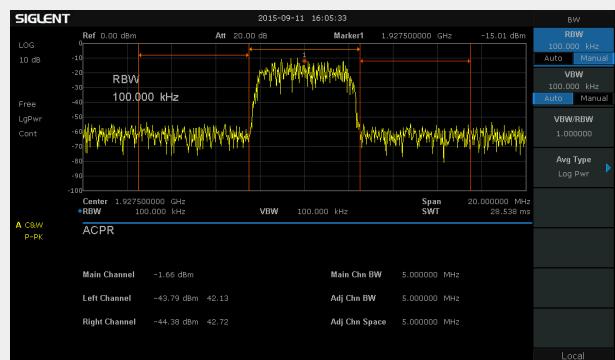
- Phase noise -98 dBc/Hz@1 GHz, offset 10 kHz



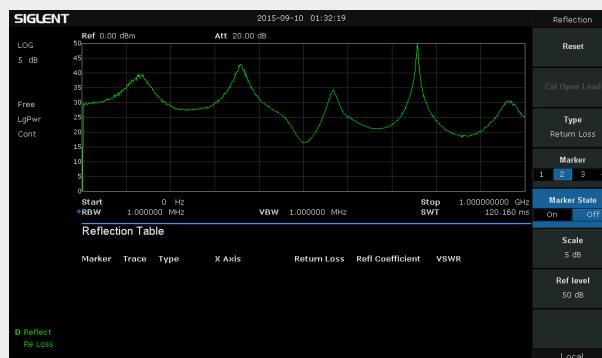
- Demodulation at the zero span



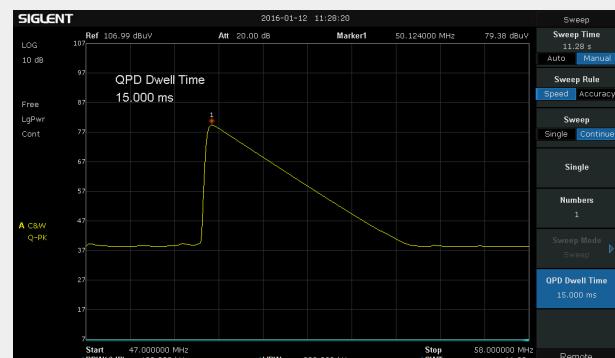
- Advanced power measurement, calculate the ACPR parameters



- Reflection measurement, acquire characteristic curve of the Return Loss



- EMI filter, Quasi-Peak detector following CISPR 16



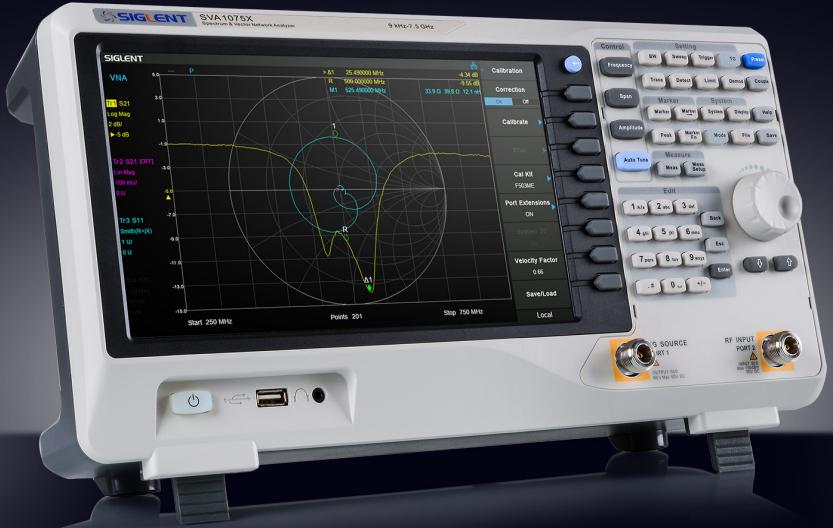
Model and Main index

| Model | SSA3021X | SSA3032X |
|-------------------------------|---------------------------------------|---------------------------------------|
| Frequency Range | 9 kHz~2.1 GHz | 9 kHz~3.2 GHz |
| Resolution Bandwidth | 1 Hz~1 MHz, in 1-3-10 sequence | 1 Hz~1 MHz, in 1-3-10 sequence |
| Displayed Average Noise Level | -161 dBm/Hz, Normalize to 1 Hz (typ.) | -161 dBm/Hz, Normalize to 1 Hz (typ.) |
| Phase Noise | <-98 dBc/Hz@1 GHz, 10 kHz offset | <-98 dBc/Hz@1 GHz, 10 kHz offset |
| Amplitude Precision | < 0.7 dB | < 0.7 dB |



Ordering Information

| Product Description | SSA3000X Spectrum Analyzer | Order Number |
|-----------------------------|--|---|
| Product code | Spectrum Analyzer, 9 kHz~2.1 GHz Spectrum Analyzer, 9 kHz~3.2 GHz | SSA3021X SSA3032X |
| Standard configurations | A Quick Start, A Product Certification, A USB Cable, A Calibration Certificate Advanced Measurement Kit (Software) | QG-SSA3000X AMK-SSA3000X |
| Utility Options | 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 N (M)-SMA (M) cable N (M)-N (M) cable N (M)-BNC (M) cable Soft carrying bag | UKitSSA3X N-SMA-6L N-N-6L N-BNC-2L BAG-S2 |
| EMI Options | EMI Measurement Kit: EMI Filter and Quasi Peak Detector, EMI test option in EasySpectrum Software Near Field Probe:H field probe sets (20 mm, 10 mm, 5 mm) , E field probe (5 mm), 300 kHz~3.0 GHz | EMI-SSA3000X SRF5030-T |
| Reflect Measurement Options | Tracking Generator Kit (standard) Reflect Measurement Kit (Software) VSWR Bridge Kit: including SSA3000-Refl VSWR Bridge(1 MHz~2 GHz) N(M)-N(M) adaptor(2 pcs) | TG-SSA3000X SSA3000-Refl RBSSA3X20 |



SVA1000X

Spectrum & Vector Network Analyzer



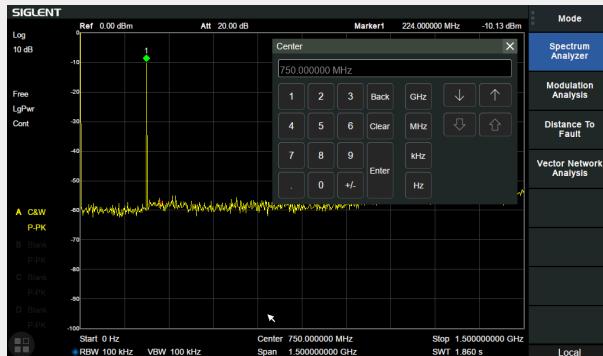
Features and Benefits

- Spectrum Analyzer Frequency Range from 9 kHz up to 7.5 GHz
- Vector Network Analyzer Frequency Range from 100 kHz up to 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
- Distance To Fault (Opt.)
- Vector Signal Modulation Analysis (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

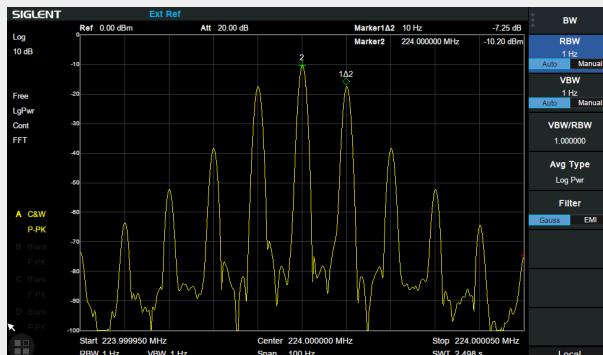


Design features

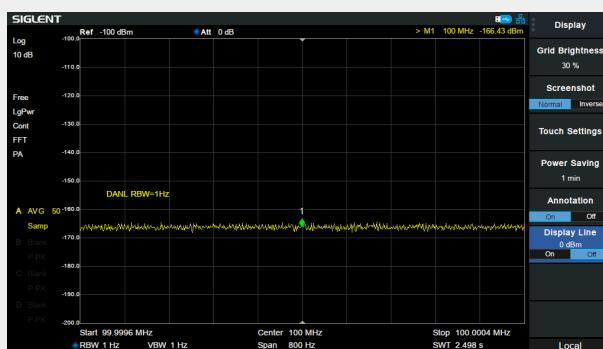
- 10.1 Inch Display with Multi-Touch Screen



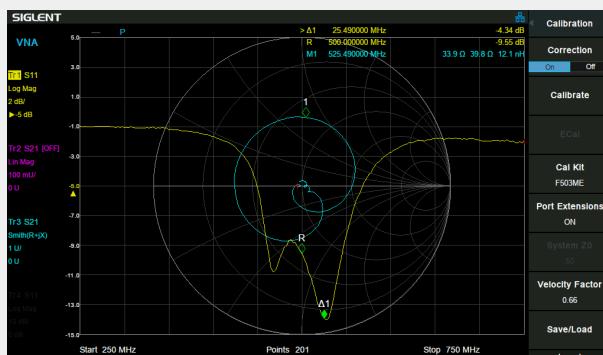
- Minimum 1 Hz Resolution Bandwidth (RBW)



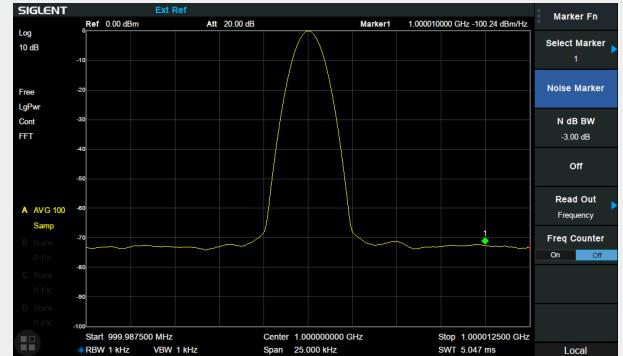
- -165 dBm/Hz Displayed Average Noise Level



- 100 k-7.5 GHz Vector S11 and S21 measurement, Multi Formats Overlay Display



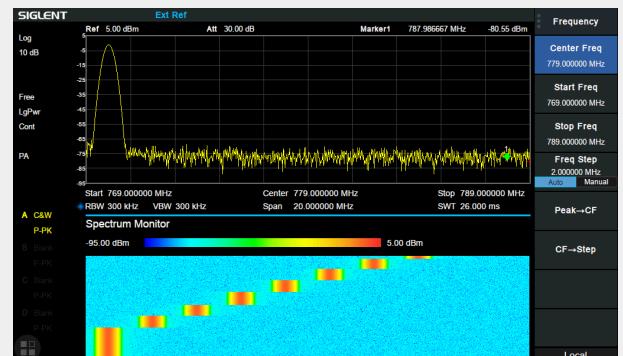
- Phase noise <-98 dBc/Hz@1 GHz, offset 10 kHz



- ACPR in Advanced Measurement Kit



- Monitor in Advanced Measurement Kit

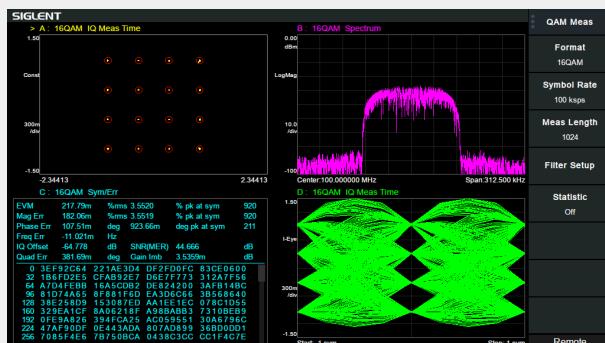


- Cable and Antenna Test based on Timing Domain Analysis

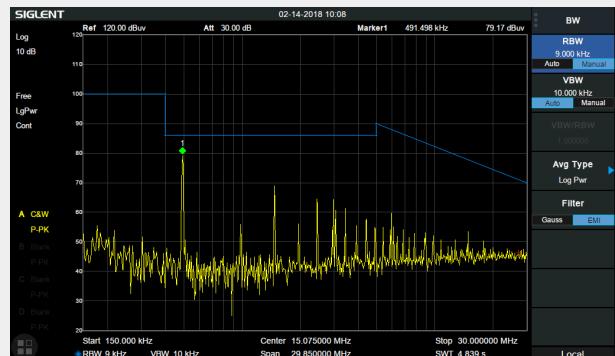


SVA1000X Spectrum & Vector Network Analyzer

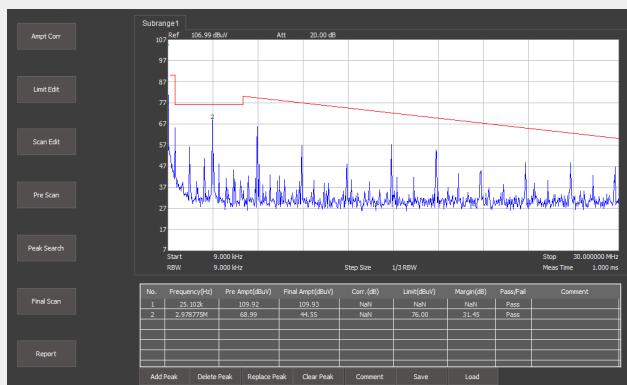
- AM/FM,ASK/FSK/PSK/MSK/QAM Vector Signal Modulation Analysis



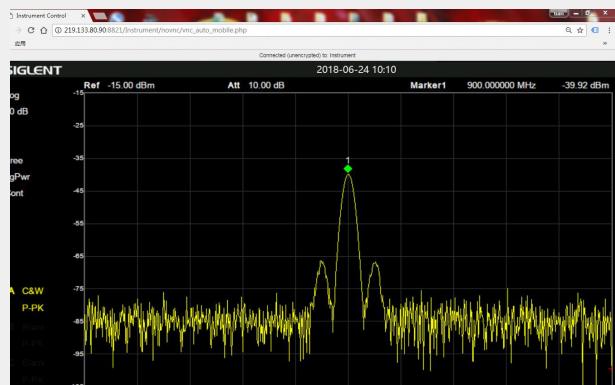
- CISPR 16-1-1 EMI filter and Quasi-peak Detector , Log scale and limit line



- Easy Spectrum^T Software for Free



- Remote Control on Web Browser



Model and Main index

| Model | SVA1015X | SVA1032X | SVA1075X |
|---|--|-----------------|-----------------|
| Spectrum Analyzer Frequency Range | 9 kHz~1.5 GHz | 9 kHz~3.2 GHz | 9 kHz~7.5 GHz |
| Vector Network Analyzer Frequency Range | 10 MHz~1.5 GHz | 100 kHz~3.2 GHz | 100 kHz~7.5 GHz |
| Resolution Bandwidth | 1 Hz~1 MHz | 1 Hz~1 MHz | 1 Hz~3 MHz |
| Displayed Average Noise Level | -156 dBm/Hz | -161 dBm/Hz | -165 dBm/Hz |
| SSB Phase Noise | <-99 dBc/Hz | <-98 dBc/Hz | <-98 dBc/Hz |
| Total Amplitude Accuracy | < 1.2 dB | < 0.7 dB | < 0.7 dB |
| Tracking Generator | 5 MHz~1.5 GHz | 100 kHz~3.2 GHz | 100 kHz~7.5 GHz |
| VNA measurement | Vector S11,Vector S21 | | |
| Distance to Fault | VNA Timing Domain Analysis Locator | | |
| Touch Screen | Multi Touch, Mouse and Keyboard supported | | |
| Advanced Measurement | CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor | | |
| Reflection Measurement | VSWR measurement using Reflection Bridge | | |
| EMI Test | EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line | | |
| Modulation Analysis | AM, FM, ASK, FSK, MSK, PSK, QAM | | |
| 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 | Spectrum & Vector Network Analyzer, 1.5 GHz | SVA1015X |
| | Spectrum & Vector Network Analyzer, 3.2 GHz | SVA1032X |
| | Spectrum & Vector Network Analyzer, 7.5 GHz | SVA1075X |
| Standard Accessories | Quick Start, USB Cable, Power Cord | |
| Common Options and Accessories | Advanced Measurement Kit | SVA1000X-AMK |
| | Utility Kit: N(M)-SMA(M) cable (6 GHz), N(M)-N(M) cable (6 GHz), N(M)-BNC(F) adaptor x 2, N(M)-SMA(F) adaptor x 2, 10 dB 1W 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)-N(M) cable, 100cm, 18 GHz | N-N-18L |
| | N(M)-SMA(M) cable, 100cm, 18 GHz | N-SMA-18L |
| | USB-GPIB Adaptor | USB-GPIB |
| | Soft carrying bag | BAG-S2 |
| | 6U Rack Mount Kit | SSA-RMK |
| VNA Options | Distance To Fault | SVA1000X-DTF |
| | Mechanical Calibration Kit: Open(M), Short(M), Match(M,50), Through(F-F), 4.5 GHz, N-Male connector | F503ME |
| | Mechanical Calibration Kit: OSLT, DC - 4.5 GHz, N-Female connector | F503FE |
| | Mechanical Calibration Kit: OSLT, DC - 4.5 GHz, 3.5mm SMA-Male connector | F603ME |
| | Mechanical Calibration Kit: Open(M), Short(M), Match(M,50), Through(F-F), 4.5 GHz, SMA-Female connector | F603FE |
| | Mechanical Calibration Kit: OSLT, DC - 9 GHz, N-Male connector | F504MS |
| | Mechanical Calibration Kit: OSLT, DC - 9 GHz, N-Female connector | F504FS |
| | Mechanical Calibration Kit: OSLT, DC - 9 GHz, 3.5mm SMA-Male connector | F604MS |
| | Mechanical Calibration Kit: OSLT, DC - 9 GHz, 3.5mm SMA-Female connector | F604FS |
| | N-type, Male and Female, 50Ω Calibration Kit, 0-9GHz | F504TS |
| EMI test Options | 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-9GHz | F604TS |
| | EMI Measurement Kit: EMI Filter and Quasi Peak Detector, EMI Receiver Mode in EasySpectrum Software | SVA1000X-EMI |
| Modulation Analysis Options | 300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm) | SRF5030T |
| | Digital Modulation: ASK, FSK, MSK, PSK, QAM | SVA1000X-DMA |
| | Analog Modulation: AM, FM | SVA1000X-AMA |



SSG5000X

RF Signal Generator



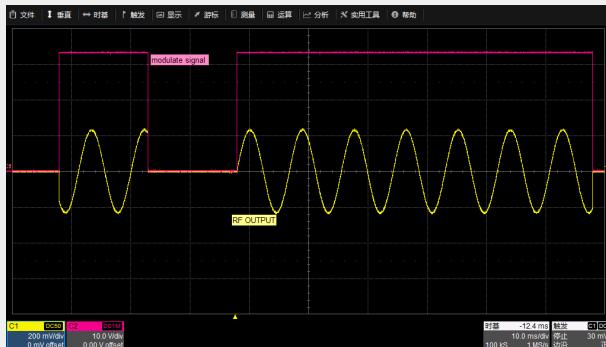
Features and Benefits

- Frequency up to 4 GHz/6 GHz
- 0.001 Hz frequency setting resolution
- High output power up to +26 dBm (typ.)
- Phase Noise: -120 dBc/ Hz @ 1 GHz, 20 kHz offset (typ.)
- User flatness correction with power sensor to correct the cable loss
- Provides AM, FM, PM analog modulation with internal, external or Int+Ext source
- Single pulse, double pulse and Pulse train generator (option)
- Internal IQ modulation with 150 MHz modulation bandwidth with perfect in-factory calibration
- Internal include some digital communication stand file such as 5G-NR, LTE, WCDMA, WLAN, and playback them
- Internal Custom mode generate common IQ signal such as QAM, FSK, ASK, MSK
- Analog differential I/Q outputs
- External analog I/Q input
- USB-power meter measurement
- 5inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface included USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB

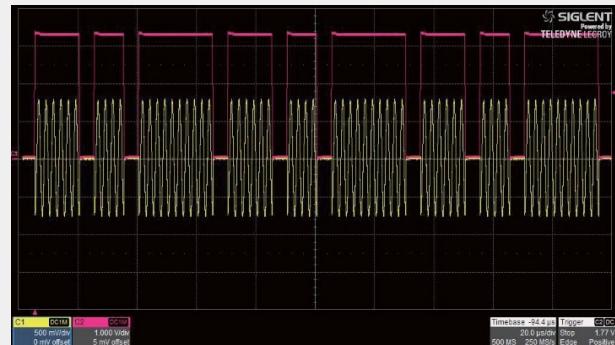


Design features

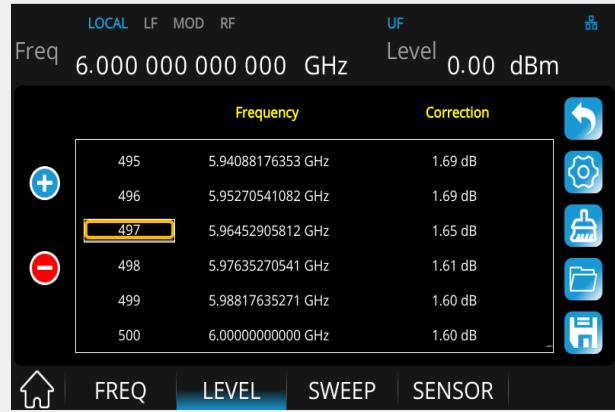
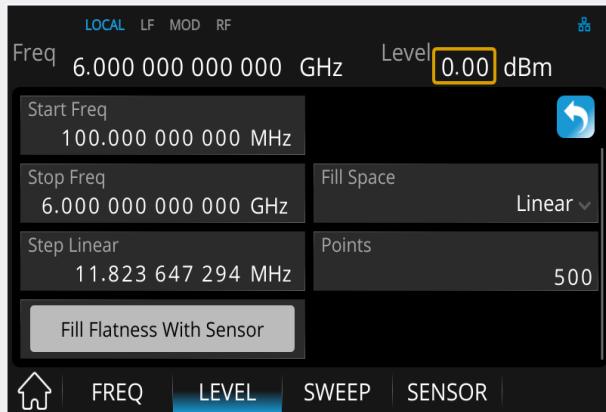
- Double pulse modulation



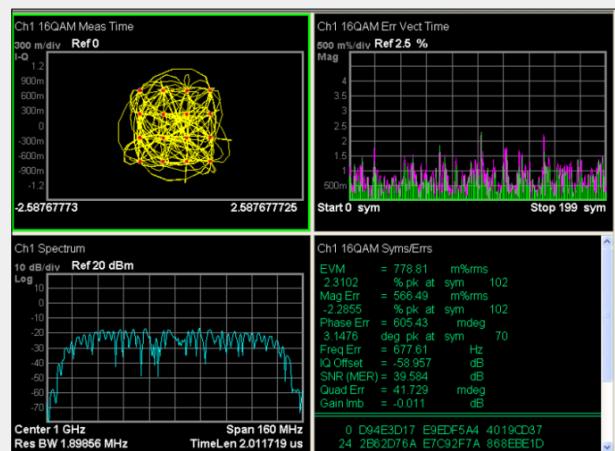
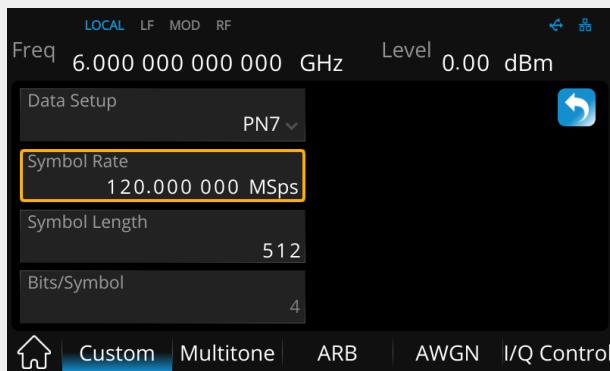
- Pulse train generator



- Works with Power sensor to use the measured values to compensate the cable losses with internal control functions

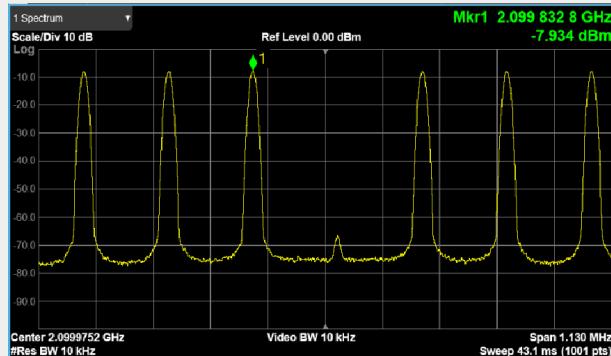


- Custom mod can generate IQ modulated signal such as QAM, PSK, ASK, FSK, the maximum sample rate is 120 Msps/s

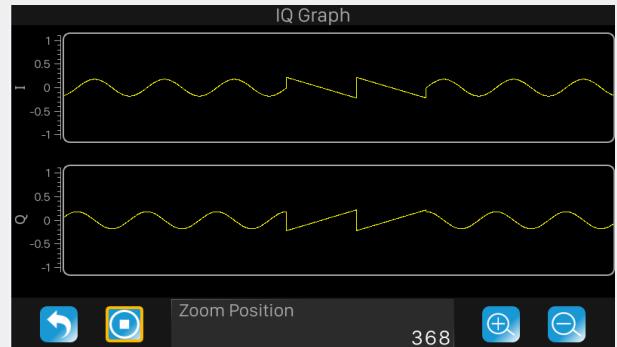


SSG5000X RF Signal Generator

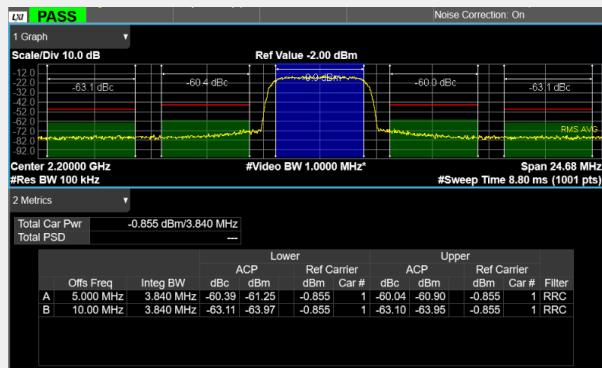
- Multi-tone mode to output multi-signal



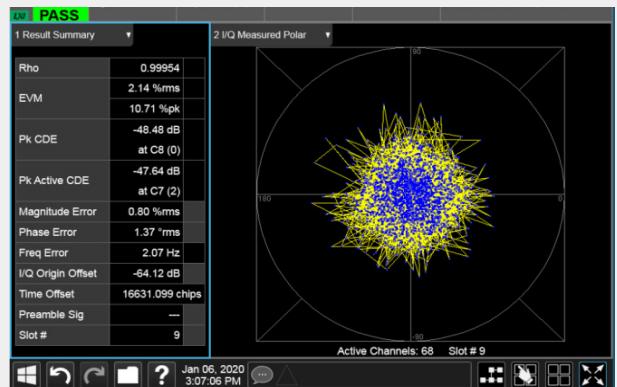
- ARB mode to build and replay waveform sequence



- Arb mode to replay back communication stand files

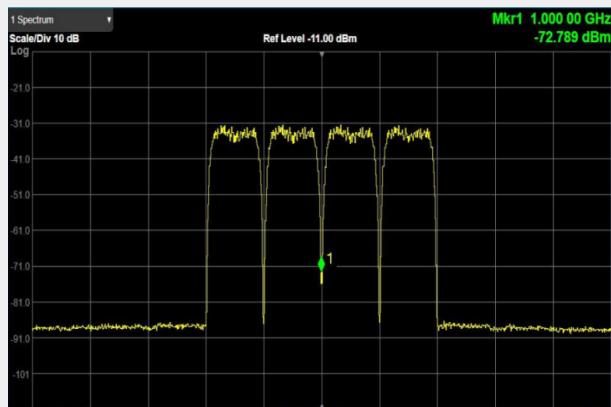


3GPP WCDMA TM1-64DPCH ACPR

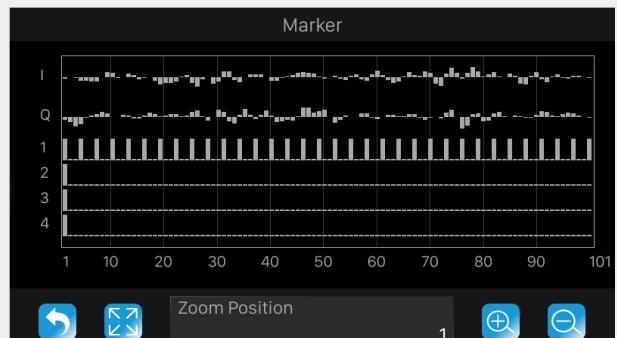


3GPP WCDMA TM1-64DPCH EVM

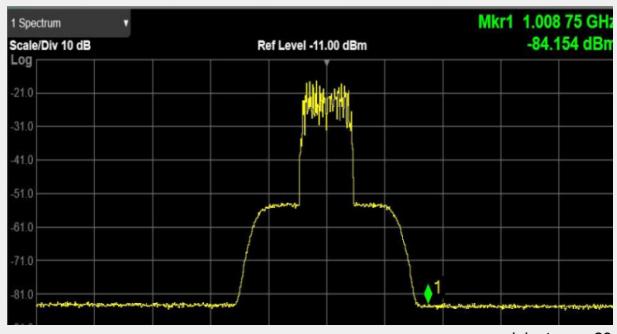
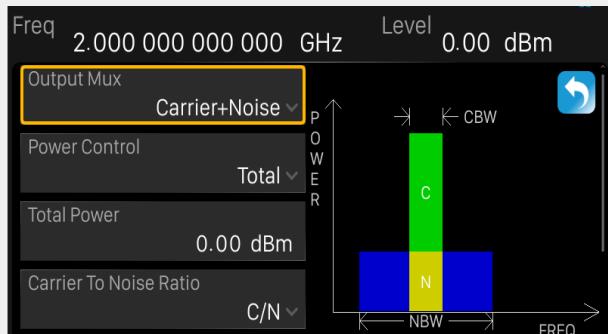
- ARB mod to generate multi-carrier



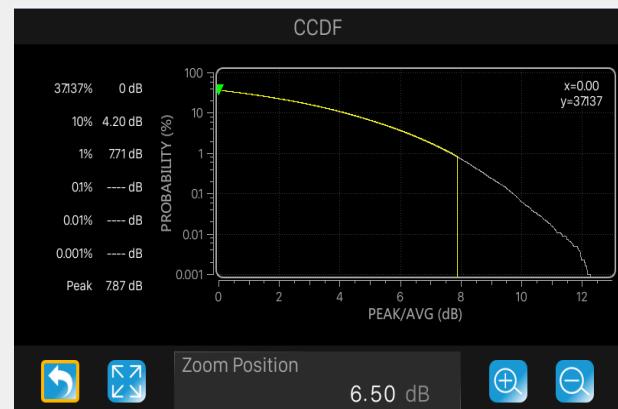
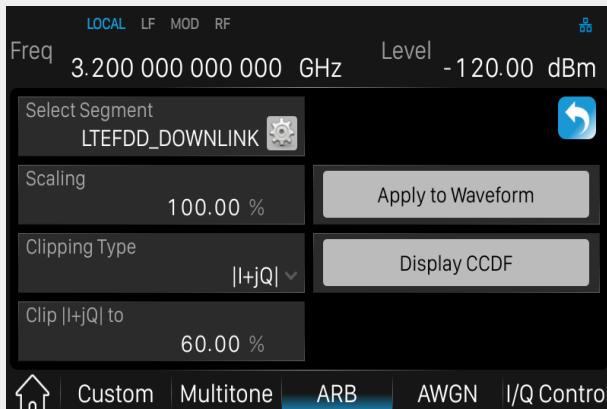
- ARB mod to use the marker to label symbol of the waveform files and simultaneously output a pulse from the invent interface, this can synchronize another device.



- ARB mode to add real time AWGN to the digital IQ to satisfy the receiver performance tests of receiver



- ARB mod to clip the signal of the peak power and display the CCDF (cytotoxic cell differentiation factor)



Model and Main index

| Model | SSG5040X | SSG5060X | SSG5040X-V | SSG5060X-V |
|----------------------|---|---------------------|---|---|
| Frequency Range | CW MODE 9 kHz~4 GHz | CW MODE 9 kHz~6 GHz | CW MODE 9 kHz~4 GHz IQ MODE 10 MHz~4 GHz | CW MODE 9 kHz~6 GHz IQ MODE 10 MHz~6 GHz |
| Frequency Resolution | 0.001 Hz | | | |
| Amplitude Resolution | 0.01 dB | | | |
| Level accuracy | 0.7 dB (typ.) | | | |
| Phase noise | -120 dBc/Hz @1 GHz, offset 20 kHz (typ.) | | | |
| Display | 5inch capacitance touch screen, RGB (800*480) | | | |



Ordering Information

| Product Description | SSG5000X Signal Generator | Order Number |
|-------------------------|--|---|
| Product code | Analog Signal Generator 9 kHz~4 GHz Vector Signal Generator 10 MHz~6 GHz | SSG5040X SSG5060X SSG5040X-V SSG5060X-V |
| Standard configurations | quick start, an USB cable, calibration certificate, power cord pulse train generator | SSG5000X-PT |
| option | rack mount kit USB-GPIB adapter Upgrade 4 GHz to 6 GHz Upgrade IQ bandwidth from 75 MHz to 150 MHz Precision Frequency Reference | SSG-RMK USB-GPIB SSG5000X-F60 SSG5000XV-B150 10M_OCXO_L |

SSG3000X

RF Signal Generator



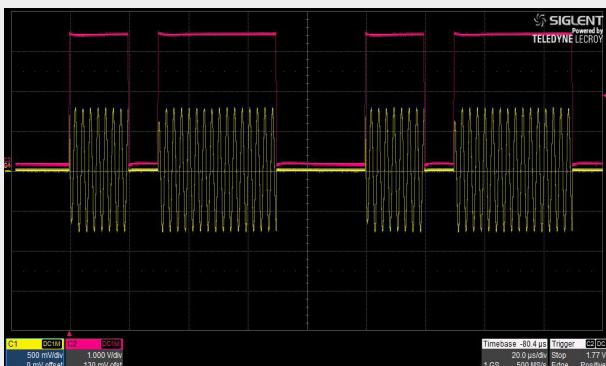
Features and Benefits

- Frequency up to 2.1 GHz/3.2 GHz
- 0.01 Hz frequency setting resolution
- Level output from -110 dBm to +13 dBm
- Maximum level up to +20 dBm (typ.)
- Phase Noise: -110 dBc/ Hz @ 1 GHz , 20 kHz offset (typ.)
- Level accuracy ≤ 0.7 dB (typ.)
- Provides AM, FM & PM analog modulation with internal, external or Int+Ext source
- Pulse modulation, on/off ratio ≥ 70 dBc
- Pulse train generator (option)
- External IQ modulation with SDG6000X as the baseband IQ signal
- USB-power meter measurement
- 5 inch TFT capacitive touch screen, mouse and keyboard supported
- Web browser remote control on PC and mobile terminals
- Standard interface include USB Host, USB Device (USB TMC), LAN (VXI-11, Socket, Telnet). Optional interface: GPIB

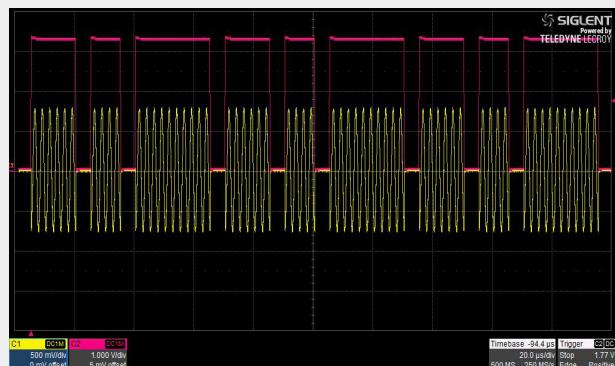


Design features

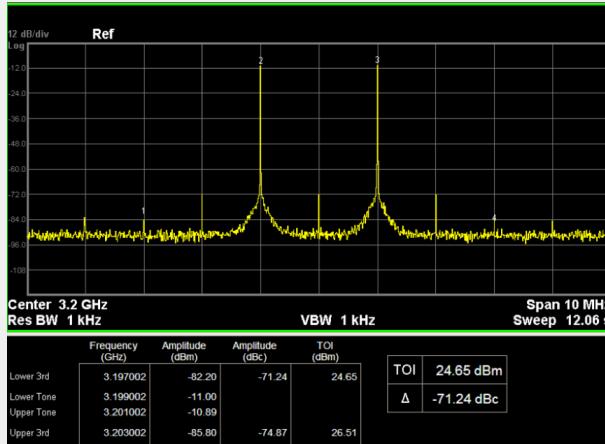
• Double pulse modulation



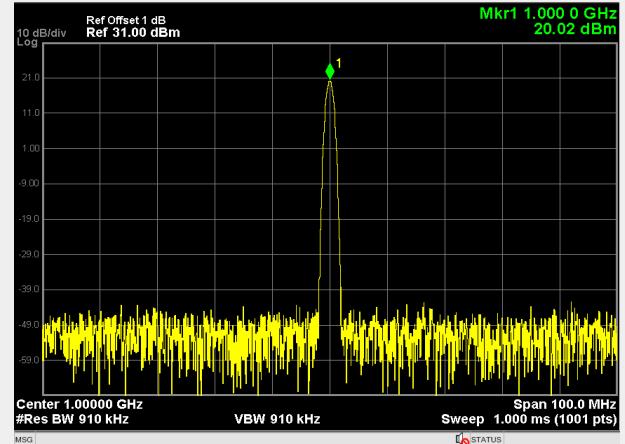
• Pulse train generator



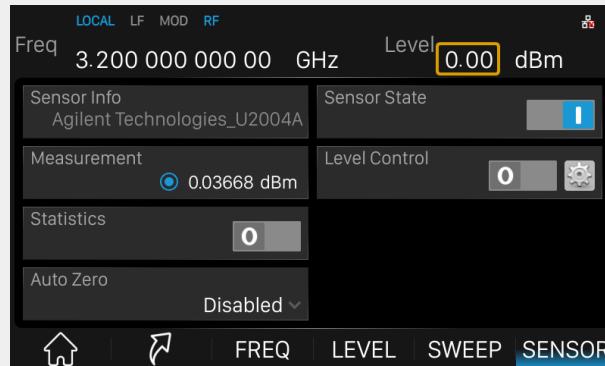
- Provides double-tone signal with IQ modulation, easily do TOI testing



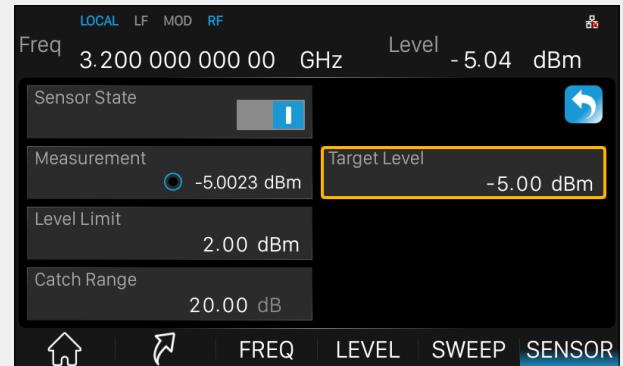
- Maximum output level up to +20 dBm



- Power output display using USB power sensor



- Power output control using USB power sensor

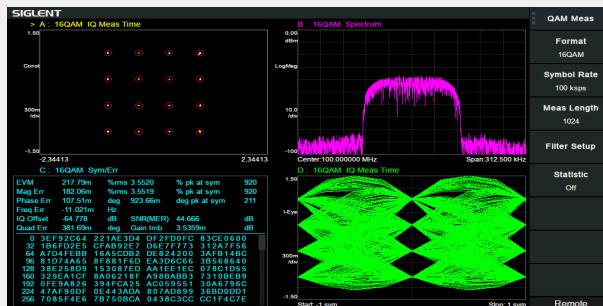


- Example for auto level control

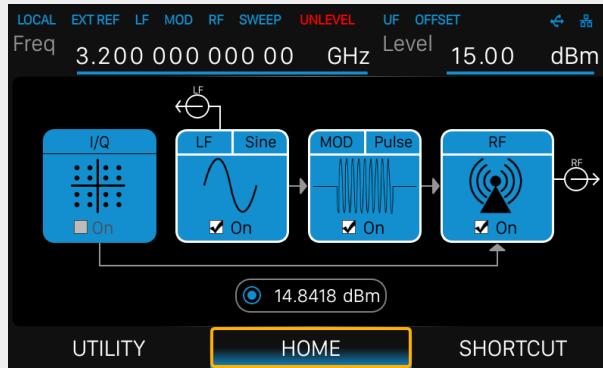


SSG3000X RF Generator

- External IQ modulation using the SDG6000X as the baseband source



- 5 inch touch screen, keyboard and mouse support



Specifications

Specifications are valid under the following condition: The instrument is within the calibration period, has been stored between 0 and 50°C for at least 2 hours prior to use, and has been powered on and warmed up for at least 40 minutes. The specifications include the measurement uncertainty, unless otherwise noted.

Specifications: All products are guaranteed to meet published specifications when operating temperatures from 5 to 45°C , unless otherwise noted.

Typical(typ.): Performance deemed typical implies that 80 percent of the measurement results will meet the typical published performance with a 95th percentile confidence level at room temperature (approximately 25°C). Typical performance is not warranted and does not include measurement uncertainty.

Nominal(nom.): This value indicate the expected mean or average performance, or an attribute whose performance is by design, such as the 50 ohm connector.



Model and Main index

| Model | SSG3021X | SSG3032X | SSG3021X-IQE | SSG3032X-IQE |
|----------------------|--|-----------------------|---|---|
| Frequency Range | CW MODE 9 kHz~2.1 GHz | CW MODE 9 kHz~3.2 GHz | CW MODE 9 kHz~2.1 GHz IQ MODE 10 MHz~2.1 GHz | CW MODE 9 kHz~3.2 GHz IQ MODE 10 MHz~3.2 GHz |
| Frequency Resolution | 0.01 Hz | | | |
| Amplitude Resolution | 0.01 dB | | | |
| Level accuracy | 0.7 dB (typ.) | | | |
| Phase noise | -110 dBc/Hz @1 GHz ,offset 20 kHz (typ.) | | | |
| Display | 5 inch capacitance touch screen, RGB (800*480) | | | |



Ordering Information

| Product Description | SSG3000X Signal Generator | Order Number |
|-------------------------|--|---------------------|
| Product code | Signal Generator 9 kHz~2.1 GHz | SSG3021X |
| | Signal Generator 9 kHz~3.2 GHz | SSG3021X-IQE |
| Standard configurations | quick start, an USB cable, calibration certificate, power cord | SSG3032X |
| | pulse train generator | SSG3032X-IQE |
| | rack mount kit | |
| option | USB-GPIB adapter | SSG3000X-PT |
| | Upgrade 2.1 GHz to 3.2 GHz | SSG-RMK |
| | Upgrade 2.1 GHz to 3.2 GHz (with external IQ) | USB-GPIB |
| | | SSG3000X-21BW32 |
| | | SSG3000X-IQE-21BW32 |

 **Accessories**

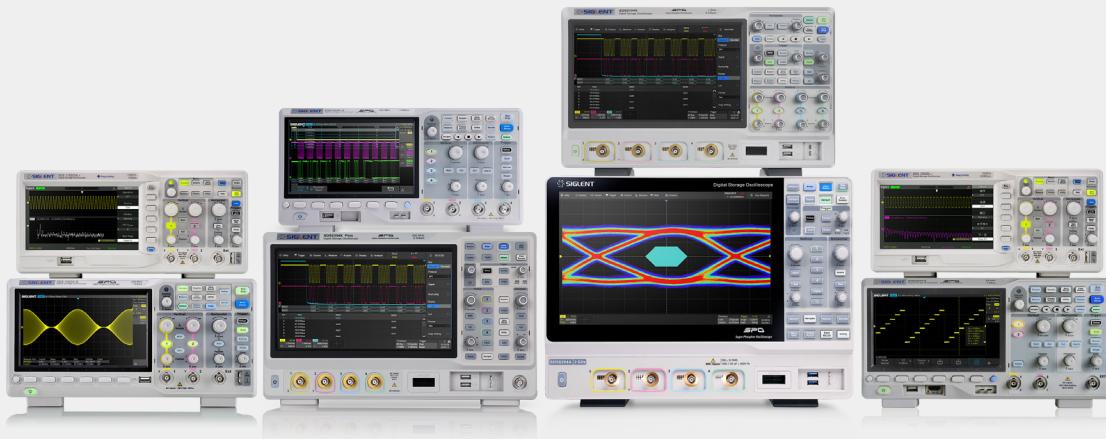
| Type | Model | Picture | Specifications |
|-----------------------------|-----------|---|--|
| Near-field Probe | SRF5030T |  | Near Field Probe: H field probe sets (20 mm, 10 mm, 5 mm) , E field probe (5 mm), 300 kHz~3.0 GHz; distinguished within 10 cm range of the magnetic field; for EMI radiation interference and the intensity detector |
| Cable | N-BNC-2L |  | N-BNC cable for SSA3000X Series; 2 GHz bandwidth |
| | N-N-6L |  | N-N cable for SSA3000X, SSA3000X Plus, SSA3000X-R, SVA1000X Series; 6 GHz bandwidth |
| Cable | N-N-18L |  | N(M)-N(M) cable for SSA3000X, SSA3000X Plus, SSA3000X-R, SVA1000X series, 100cm, 18 GHz bandwidth |
| | N-SMA-18L |  | N(M)-SMA(M) cable for SSA3000X, SSA3000X Plus, SSA3000X-R, SVA1000X series, 100cm, 18 GHz bandwidth |
| | N-SMA-6L |  | N-SMA cable for SSA3000X, SSA3000X Plus, SSA3000X-R, SVA1000X Series; 6 GHz bandwidth |
| Reflection Bridge | RB3X25 |  | VSWR bridge: (1 MHz~2.5 GHz), N (M) -N (M) adaptor (2 pcs) |
| SSA3000X Utility Kit | UKitSSA3X |  | Utility Kit for SSA3000X Series: 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 |

| Type | Model | Picture | Specifications |
|---------------------|---------|---|---|
| VNA Calibration Kit | F503ME |  | Mechanical Calibration Kit: Open(M), Short(M), Match(M,50), Through(F-F), 4.5 GHz |
| | F503FE | | Mechanical Calibration Kit: OSLT, DC - 4.5 GHz, N-Female connector |
| | F504MS | | Mechanical Calibration Kit: OSLT, DC - 9 GHz, N-Male connector |
| | F504FS | | Mechanical Calibration Kit: OSLT, DC - 9 GHz, N-Female connector |
| | F504TS | | N-type, Male and Female, 50Ω Calibration Kit, 0-9GHz |
| | F603ME | | Mechanical Calibration Kit: OSLT, DC - 4.5 GHz, 3.5mm SMA-Male connector |
| Rack Mount | F603FE |  | Mechanical Calibration Kit: Open(M), Short(M), Match(M,50), Through(F-F), 4.5 GHz, SMA-type |
| | F604MS | | Mechanical Calibration Kit: OSLT, DC - 9 GHz, 3.5mm SMA-Male connector |
| | F604FS | | Mechanical Calibration Kit: OSLT, DC - 9 GHz, 3.5mm SMA-Female connector |
| | F604TS | | 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-9GHz |
| | SSA-RMK |  | Single instrument rack mount kit for SSA3000X, SVA1000X series |
| Carry Bag | BAG-S2 |  | Soft Carry Case for SDS2000X, SDS5000X, SSA3000X, SVA1000X, SSA3000X Plus |

Other Products Overview

SIGLENT also provides other instruments like Oscilloscopes, AWG, Multimeters, Electronic load, Power Supply.

※ Oscilloscopes ※



| | SDS6000A | SDS5000X | SDS2000X plus | SDS2000X-E | SDS1000X-E | SDS1104 X-U | SDS1000 CML+ | SDS1000 DL+ |
|----------------------|--|-----------------|----------------------|------------------------------------|-------------------|--------------------|---------------------|--------------------|
| Bandwidth | 350 MHz ~ 2 GH | 350 MHz ~ 1 GHz | 100 MHz ~ 500 MHz | 200 MHz ~ 350 MHz | 100 MHz ~ 200 MHz | 100 MHz | 70 MHz ~ 150 MHz | 50 MHz |
| Sample rate | 5 GSa/s (10 GSa/s ESR) | 5 GSa/s | 2 GSa/s | 2 GSa/s | 1 GSa/s | 1 GSa/s | 1 GSa/s | 500 MSA/s |
| ADC per analog input | Yes | | | | | | | |
| Analog channel | 4 | 4 | 2/4 | 2 | 2/4 | 4 | 2 | 2 |
| Memory depth | 500 Mpts | 250 Mpts | 200 Mpts | 28 Mpts | 14 Mpts | 14 Mpts | 2 Mpts | 32 kpts |
| Waveform update Rate | 170,000 wfm/s | 110,000 wfm/s | 120,000 wfm/s | 110,000 wfm/s | 100,000 wfm/s | 100,000 wfm/s | | |
| Protocol analysis | Standard: I2C, SPI, UART, CAN, LIN; Option: CAN FD, FlexRay, I2S, MIL-STD-1553B | | | Standard: IIC, SPI, UART, CAN, LIN | | | | |
| Sequence | Yes | Yes | Yes | Yes | Yes | Yes | | |
| History | Yes | Yes | Yes | Yes | Yes | Yes | | |
| Math traces | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| FFT points | 8 Mpts | 2 Mpts | 2 Mpts | 1 Mpts | 1 Mpts | 128 kpts | | |
| Search and Navigate | Yes | Yes | Yes | Yes | Yes | Yes | | |
| DVM | Yes | Yes | | | | | | |
| Counter | Yes | Yes | Yes | | | | | |
| Histogram | Yes | Yes | Yes | | | | | |
| Bode plot | Yes | Yes | Yes | Yes | Yes | | | |
| Power analysis | Yes | Yes | Yes | | | | | |
| Eye/Jitter analysis | Yes | | | | | | | |
| Digital channels | Yes | Yes | Yes | Yes | Yes | | | |
| AWG | 25 MHz | 25 MHz | 50 MHz | 25 MHz | 25 MHz | | | |
| Zone Trigger | Yes | Yes | Yes | | | | | |
| Webserver | Yes | Yes | Yes | Yes | Yes | | | |
| HDMI output | Yes | | | | | | | |
| Porbe Adapters | Yes | Yes | | | | | | |
| Screen | 12.1" touch | 10.1" touch | 10.1" touch | 7" LCD | 7" LCD | 7" LCD | 7" LCD | 7" LCD |

※ Arbitrary Waveform Generator ※



| | SDG7000A | SDG6000X | SDG2000X | SDG1000X | SDG800 |
|---------------------------|---|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
| Bandwidth | 350/500 MHz, 1 GHz | 200/300/500 MHz | 40/80/120 MHz | 30/60 MHz | 5/10/30 MHz |
| Number of channels | 2 Differential/ Single-ended | 2 Single-ended | 2 Single-ended | 2 Single-ended | 1 Single-ended |
| Output range | ± 24 V (48 V) | ±10V | ±10V | ±10V | ±10V |
| Digital bus(Optional) | 16-bit, LVTTL or LVDS output Bit rate 1μbps ~ 1 Gbps | | | | |
| Sampling rate | 5 GSa/s | 2.4 GSa/s (2X Interpolation) | 1.2 GSa/s (4X Interpolation) | 150 MSa/s | 125MSa/s |
| Vertical resolution | 14-bit | 16-bit | 16-bit | 14-bit | 14-bit |
| Arbitrary waveform length | 24pts ~ 512 Mpts/ch | 2 ~ 20 Mpts | 8 ~ 8 Mpts | 16 kpts | 16 kpts |
| Modulation types | AM, FM, PM, PWM, FSK, PSK, ASK, QAM | AM,FM,PM,ASK,FSK,PSK, PWM, QAM | AM,FM,PM,ASK,FSK,PSK, PWM | AM, DSB-AM, FM,PM, FSK, ASK, PSK, PWM | AM, DSB-AM, FM, PM, FSK, ASK, PWM |
| Harmonic output | 16 | 10 | 10 | 16 | |
| Sweep & Burst | Yes | Yes | Yes | Yes | Yes |
| IQ Signal Generator | Yes | Yes | | | |
| PRBS Generator | Yes | Yes | | | |
| Display | 5" touch screen , 800*480 | 4.3" touch screen, 480*272 | 4.3" touch screen, 480*272 | 4.3" LCD, 480*272 | 3.5" LCD, 320*240 |



※ Power Supply ※

| | SPS5000X | SPD3000X | SPD3303C | SPD1000X |
|----------------|-------------------------|-----------------|-----------------|-----------------|
| Output Channel | 1/2/3 | 3 | 3 | 1 |
| Max. Voltage | 40/50/80/160 V | 32 V | 32 V | 16/30 V |
| Max. Current | 7.5/15/22.5/30/45/60/90 | 3.2 A | 3.2 A | 5/ 8 A |
| Max. Power | 180/360/720/1080 W | 220 W | 220 W | 128/150 W |
| Resolution | 1 mV/1 mA | 1 mV/1 mA | 10 mV/10 mA | 1 mV / 1 mA |
| Screen | 2.4" OLED | 4.3" LCD | LED | 2.8" LCD |

※ DC Electronic Load ※

| | SDL1020X | SDL1020X-E | SDL1030X | SDL1030X-E |
|---------------------------|--------------------------|-------------------|-----------------|-------------------|
| Min. readback resolution | 0.1 mV, 0.1 mA | 1 mV, 1 mA | 0.1 mV, 0.1 mA | 1 mV, 1 mA |
| Input power | 200 W | | 300 W | |
| Input current | 30 A | | | |
| Input voltage | 150 V | | | |
| CC Dynamic mode frequency | 25 kHz | | | |
| Current slew rate | 0.001 A/us~2.5 A/us | | | |
| Display | 3.5 inch TFT-LCD display | | | |

※ Digital Multimeter ※

| | SDM3045X | SDM3055 | SDM3065X |
|--------------------|-----------------------|-----------------|-----------------|
| Reading resolution | 4 1/2 | 5 1/2 | 6 1/2 |
| DC voltage | 600 mV ~ 1000 V | 200 mV ~ 1000 V | 200 mV ~ 1000 V |
| AC voltage | 600 mV ~ 750 V | 200 mV ~ 750 V | 200 mV ~ 750 V |
| DC current | 600 µA ~ 10 A | 200 µA ~ 10 A | 200 µA ~ 10 A |
| AC current | 60 mA ~ 10 A | 20 mA ~ 10 A | 200 µA ~ 10 A |
| Scanner card | Not support | Support | Support |
| Display | 4.3" TFT-LCD, 480*272 | | |

Service Promise:

Since the date of purchase, we offer three year's warranty for the main unit:

- During the warranty period, if the products cause any hardware or software failure because of the quality, Siglent's after-sales service center or Siglent's designated maintenance points will offer the maintenance of the fault products for the user.
- Because of improper use or any other artificial reason, the damage won't be included in the free maintenance.

1. Extension after-sales service

Extension service is based on the main unit (not including accessories) as an object. During the extension service, Siglent still offer free maintenance after the standard warranty period.

1.1 Three advantages:

- Guarantee investment. To extend the life cycle of the products.
- Save money. To prevent the high cost of maintenance after the warranty period.
- Avoid the repeated investment. To prevent buying new equipments because it can't be repaired after the warranty period.

1.2 The content of the extension service

You can buy the following extension service according to your demand:

| Solution | Viability | Instruction |
|----------|-------------------------------------|--|
| ES4 | One year after the warranty period | According to the service terms, Siglent will offer another one year for the after-sales maintenance service |
| ES5 | Two years after the warranty period | According to the service terms, Siglent will offer another two years for the after-sales maintenance service |

2. Calibration services

After long-term use, oscilloscope will cause the deviation of measured value and waveform display, because of its work temperature and humidity. Siglent will restore the original performance and accuracy of factory setting to calibrate the deviation.

- Eliminate the error of measurement
- Restore the original performance and accuracy of the factory setting to the "new" state
- The upgrade of the firmware and the software
- Make the instruments comply with the standard of the ISO9001 quality management process
- Traceable calibration certificates



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