



- All Digital IF Technology
- Frequency Range: 9 kHz to 3 GHz
- Displayed Average Noise Level Up to -148 dBm (DSA1030A)
- Phase Noise up to -88 dBc/Hz @10 kHz offset (DSA1030A)
- Total Amplitude Uncertainty <1.0 dB(DSA1030A)
- Minimum Resolution Bandwidth (RBW): 10 Hz (DSA1030A)
- Quasi-Peak Detector & EMI Filter (Standard)
- 3 GHz Tracking Generator (for DSA1030-TG and DSA1030A-TG)
- Advanced measurement functions (option for DSA1030 and DSA1030-TG, standard for DSA1030A and DSA1030A-TG)
- 8.5 inch widescreen display (800X480)
- Complete Connectivity: LAN, USB Host&Device, VGA, USB-GPIB (optional)
- · Compact size, light weight

DSA1000 series is a 3GHz general purpose spectrum analyzer. With its stable performance as well as overall and easy-to-use test functions, it can fulfill most of the spectrum-related test and application requirements, such as maintenance, production and education. In addition, it is a highly cost effective instrument that is worth having.

Unique widescreen display, friendly interface and easy-to-use operations



Product Dimensions: Width X Height X Depth = 399 mm × 223 mm × 159 mm Weight: 6.2 kg (Without Battery and Package)

Advanced Performance and stability

Stability and precision is the primary design goal of the DSA1000 Series. We started with an all digital IF core. With the minimum 10Hz resolution bandwidth, -88 dBc/Hz phase noise (typical) at 10 kHz offset, up to -148 dBm displayed average noise level (10 Hz RBW, standard preamplifier on) and less than 1.0 dB total amplitude error, the DSA1000 Series makes high precision measurements easier than ever whether the application calls for low noise or narrow resolution.

Incomparable Value

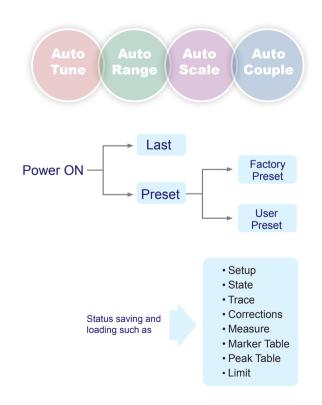
With the DSA1000 Series get a high quality spectrum analyzer without the price tag. This lowers the investment whether you are in stages related to research and development or manufacturing and maintenance. Don't let instrumentation costs dictate resource allocation. With our available calibration and maintenance training as well as firmware updates never regret a purchase because of total cost of ownership.

Benefits of Rigol's all digital IF design

- The ability to measure smaller signals: on the basis of this technology, the IF filter enables smaller bandwidth settings, which greatly reduce the displayed average noise level.
- The ability to distinguish between small signals by frequency: using the IF filter with the smallest bandwidth setting it is possible to make out signals with a frequency difference of only 10 Hz.
- 3. High precision amplitude readings: this technology almost eliminates the errors generated by filter switching, reference level uncertainty, scale distortion, as well as errors produced in the process of switching between logarithmic and linear display of amplitude when using a traditional analog IF design.
- 4. Higher reliability: compared with traditional analog designs, the digital IF greatly reduces the complexity of the hardware, the system instability caused by channel aging, and the temperature sensitivity that can contribute to parts failure.
- 5. High measurement speed: the use of digital IF technology improves the bandwidth precision and selectivity of the filter, minimizing the scanning time and improving the speed of the measurement.

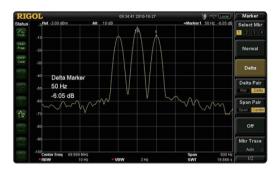
Breadth of measurement functions and automatic settings provide ultimate flexibility

DSA1000 Series provides a series of automatic setting functions such as Auto Tune, Auto Range, Auto Scale and Auto Couple that enable the analyzer to acquire signals and match parameters automatically, instead of the manual process used by a traditional analyzer. In addition, the User and Factory settings under the Preset function enable users to quickly and easily recall previous measurement settings.

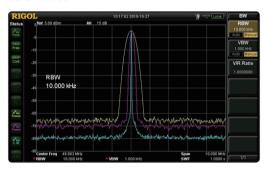


► Features and Benefits

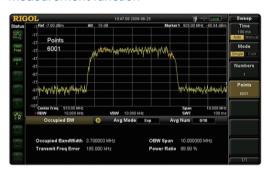
Distinguish the two nearby signals clearly with the 10Hz RBW



Compare the spectrums with different color trace



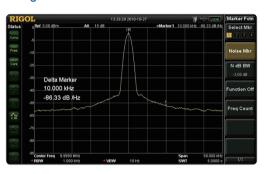
The advanced Occupied Bandwidth measurement function



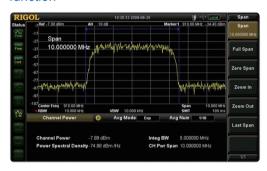
The advanced Harmonic distortion measurement function



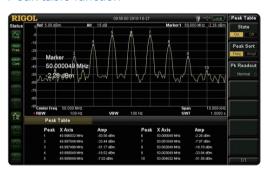
Readout the signal's Phase Noise directly by using the standard Noise Marker function



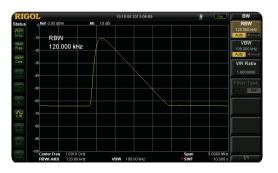
The advanced Channel Power measurement function



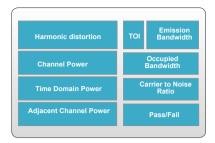
Readout the Spectrum Peak values with the Peak table function



Quasi-Peak Detector & EMI Filter (Standard)



► RIGOL Spectrum Analyzer Option and Accessory



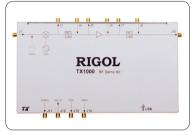
Advanced Measurement Kit (AMK-DSA1000)



Rack Mount Kit (RM-DSA1000)



VSWR Bridge (VB1020/VB1040)



RF Demo Kit (TX1000)



RF Demo Kit (RX1000)



RF CATV Kit



DSA Utility Kit



RF Adaptor Kit



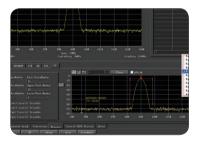
RF Attenuator Kit



RF Cable Kit (CB-NM-NM-75-L-12G) (CB-NM-SMAM-75-L-12G)



High Power Attenuator (ATT03301H)



DSA PC Software (Ultra Spectrum)



Soft Carrying Bag (BAG-DSA1000)



USB to GPIB Converter (USB-GPIB)



Desk Mount Instrument Arm (ARM)

Specifications

Specifications are valid under the following conditions: the instrument is within the calibration period, is stored for at least two hours at 5°C to 40°C temperature, and is warmed up for 30 minutes. Unless otherwise noted, the specifications in this manual include the measurement uncertainty.

Typical (typ.): characteristic performance, which 80 percent of the measurement results will meet at room temperature (approximately 25°C). This data is not warranted and does not include the measurement uncertainty.

Nominal (nom.): the expected mean or average performance or a designed attribute (such as the 50 Ω connector). This data is not warranted and is measured at room temperature (approximately 25°C).

Measured (meas.): an attribute measured during the design phase which can be compared to the expected performance, such as the amplitude drift variation with time. This data is not warranted and is measured at room temperature (approximately 25°C).

NOTE: All data in this manual are the measurement results of multiple instruments at room temperature unless otherwise noted. The specifications (except the TG specifications) listed in this manual are those when the tracking generator is off.

Model	DSA1030A/DSA1030A-TG	DSA1030/DSA1030-TG	
Frequency			
Frequency			
Frequency Range	9 kHz to 3 GHz		
Frequency Resolution	1 Hz		
Internal Frequency Reference			
Reference Frequency	10 MHz		
Aging Rate	<3 ppm/year		
Temperature Drift	<3 ppm, 20 °C to 30 °C		
Frequency Readout Accuracy			
Marker Resolution	span/(sweep points-1)		
Marker Uncertainty	± (frequency indication × frequency reference uncertainty +1% × span + 10% × resolution bandwidth + marker resolution)		
Marker Frequency Counter	,		
Resolution	1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz		
Uncertainty	±(frequency indication × frequency reference uncertainty + counter resolution) Note: Frequency Reference Uncertainty= (aging rate × period since adjustment + temperature drift).		
Frequency Span			
Range	0 Hz, 100 Hz to 3 GHz		
Uncertainty	±span/(sweep points-1)		
SSB Phase Noise	, , , ,		
SSB Phase Noise Note: Typical fc = 500MHz, RBW≤1kHz, sample detector, and trace	Carrier Offset 10 kHz: <-88 dBc/Hz, typical Carrier Offset 100 kHz: <-100 dBc/Hz, typical Carrier Offset 1 MHz: <-110 dBc/Hz, typical	Carrier Offset 10 kHz: <-80 dBc/Hz	
average≥50.			
Bandwidths			
Set "Auto SWT" to "Accy"			
Resolution Bandwidth (-3dB)	10 Hz to 1 MHz, in 1-3-10 sequence	100 Hz to 1 MHz, in 1-3-10 sequence	
Bandwidth (-6dB)	200Hz, 9kHz, 120kHz, 1 MHz	200Hz, 9kHz, 120kHz, 1 MHz	
RBW Uncertainty	<5%, nominal		
Resolution Filter Shape Factor (60 dB : 3 dB)	<5, nominal		
Video Bandwidth (-3dB)	1 Hz to 3 MHz, in 1-3-10 sequence		
Amplitude	•		
Measurement Range			
Range	10 MHz to 3 GHz: DANL to +30 dBm 1 MHz to 10 MHz: DANL to +21 dBm 9 kHz to 1 MHz: DANL to +17 dBm		
Maximum rated input level			
Note: When input level >33 dBm, th			
DC Voltage	50 V		
CW RF Power	30 dBm (1 W) (RF attenuation≥20 dB)		
Max. Damage Level	40 dBm (10 W)		
1dB Gain Compression			
fc ≥ 50MHz, preamplifier off			

Total Power at Input Mixer	>0 dBm Note: Mixer power level (dBm) = input power (dB	m) – input attenuation (dB).	
Displayed Average Noise Level (DA	. , , , , ,		
	0 dB RF Attenuation, RBW=10 Hz, VBW=1Hz, RMS Average Detector, Trace Average ≥ 50, Input Impedance=50 Ω, Tracking Generator Off.	0 dB RF Attenuation, RBW=100 Hz, VBW=1Hz, RMS Average Detector, Trace Average ≥ 50, Input Impedance=50 Ω, Tracking Generator Off.	
DANL (Preamplifier Off)	100 kHz to 10 MHz: <-85 dBm-3 x (f/1 MHz) dB, typical -125 dBm 10 MHz to 2.5 GHz: <-127 dBm+3 x (f/1GHz) dB, typical -130 dBm 2.5 GHz to 3 GHz:<-115 dBm	100 kHz to 10 MHz: <-75 dBm-3 x (f/1 MHz) dB, typical -115 dBm 10 MHz to 2.5 GHz: <-117 dBm+3 x (f/1 GHz) dB, typical -120 dBm 2.5 GHz to 3 GHz:<-105 dBm	
DANL (Preamplifier On)	100 kHz to 1 MHz:<-103 dBm 1 MHz to 10 MHz:<-103 dBm-3 x (f/1 MHz) dB, typical -143 dBm 10 MHz to 2.5 GHz:<-145 dBm+3 x (f/1 GHz) dB, typical -148 dBm 2.5 GHz to 3 GHz:<-133 dBm	100 kHz to 1 MHz:<-93 dBm 1 MHz to 10 MHz:<-93 dBm-3 x (f/1 MHz) dB, typical -133 dBm 10 MHz to 2.5 GHz:<-135 dBm+3 x (f/1 GHz) dB, typical -138 dBm 2.5 GHz to 3 GHz:<-123 dBm	
Level Display Range			
Log Scale	1 dB to 200 dB		
Linear Scale	0 to Reference Level		
Number of Display Points	Normal: 601; Full Screen: 751		
Number of Traces	3 + Math Trace		
Trace Detectors	Normal, Positive-peak, Negative-peak, Sample, RMS, Voltage Average, Quasi-Peak		
Trace Functions	Clear Write, Max Hold, Min Hold, Average, Freeze, Blank		
Scale Units	dBm, dBmV, dBμV, V, W		
Frequency Response	NAUL 0000 / 0000		
10 dB RF Attenuation, Relative to 50	·	Dunamentifica Off 400 kHz to 2 OHz, 44 0 dF	
Frequency Response	Preamplifier Off , 100 kHz to 3 GHz: <0.7 dB Preamplifier On , 1 MHz to 3 GHz: <1.0 dB	Preamplifier Off , 100 kHz to 3 GHz: <1.0 dE Preamplifier On , 1 MHz to 3 GHz: <1.4 dB	
Input Attenuation Switching Uncerta			
Setting Range	0 to 50 dB, in 1 dB step		
Switching Uncertainty (fc=50 MHz, relative to 10 dB, 20 °C to 30 °C)	< (0.3 + 0.01 x attenuator setting) dB	<0.8 dB	
Absolute Amplitude Uncertainty			
Uncertainty (fc=50 MHz, peak detector, preamplifier off, 10 dB RF attenuation, input signal=-10 dBm, 20 °C to 30 °C)	±0.4 dB		
RBW Switching Uncertainty			
	10 Hz to 1 MHz, relative to 1 kHz RBW	100 Hz to 1 MHz, relative to 1 kHz RBW	
Uncertainty	<0.1 dB		
Reference Level			
Range	-100 dBm to +30 dBm, in 1 dB step		
Resolution	Log Scale: 0.01 dB; Linear Scale: 5 digits		
Level Measurement Uncertainty			
•	RBW=VBW=1 kHz, preamplifier off, 10 dB RF atten	uation, -50 dBm <reference level<0,10<="" td=""></reference>	
Level Measurement Uncertainty RF Input VSWR	<1.0 dB, nominal	<1.5 dB, nominal	
10 dB RF Attenuation			
VSWR	100 kHz to 10 MHz: <1.8, nominal 10 MHz to 2.5 GHz: <1.5, nominal 2.5 GHz to 3 GHz: <1.8, nominal		

lata was a dulation		
Intermodulation	125 dDm	
Second Harmonic Intercept (SHI)	+35 dBm	
Third-order Intermodulation (TOI)	fc >30 MHz: +7 dBm	
Spurious Responses	. 00 ID	
Image Frequency	<-60 dBc	
Intermediate Frequency	<-60 dBc	. O.S. ID
Spurious Response	<-88 dBm, typical	<-85 dBm, typical
System-related Sideband		
(Referenced to local oscillators,		
referenced to A/D conversion,	<-60 dBc	
referenced to subharmonic of first		
LO, referenced to harmonic of first		
LO)		
Input Related Spurious	<-60 dBc, typical	
(Mixer level: -30 dBm)	, 3,	
Sweep		
Sweep		
Sweep Time Range	100 Hz ≤ Span ≤ 3 GHz: 10 ms to 3000 s Span=0 Hz: 20 µs to 3000 s	
	Non-zero Span (100 Hz ≤ Span ≤ 3 GHz): 5%, no	ominal
Sweep Time Uncertainty	Zero Span (1 ms to 3000 s): 5%, nominal	
	· · · · · · · · · · · · · · · · · · ·	
Sweep Mode	Continuous, single	
Trigger Functions		
Trigger		
Trigger Source	Free Run, Video, External	
External Trigger Level	5 V TTL level, nominal	
Tracking (for DSA1030A-TG and I	DSA1030-TG)	
TG Output		
Frequency Range	10 MHz to 3 GHz , 9 kHz settable	
Output Level	-20 dBm to 0 dBm, in 1 dB steps	
Output Flatness (10 MHz to 3	±3 dB	
GHz, referenced to 50 MHz)		
Inputs/Outputs		
RF Input		
Impedance	50 Ω, nominal	
Connector	N female	
TG Out		
Impedance	50 Ω, nominal	
Connector	N female	
Probe Power		
Voltage/Current	+15 V, <10% at 150 mA	
•	-12.6 V, <10% at 150 mA	
10 MHz REF In / 10 MHz REF Out /	,	
Connector	BNC female	
10 MHz REF Amplitude	0 dBm to 10 dBm	
Trigger Voltage	5 V TTL level, nominal	
Remote Control		
USB		
USB Host		
Connector	A Plug	
Protocol	Version 2.0	
USB Device	I = =:	
Connector	B Plug	
Protocol	Version 2.0	
LAN		
LXI Core 2011 Device GPIB	10/100 Base, RJ-45	
	10/100 Base, RJ-45 With the USB-GPIB option	

VGA Connector VGA compatible, 15-pin mini D-SUB Resolution 800 * 600 @ 60Hz General Specifications Display Type TFT LCD Resolution 800 * 480 Size 8.5" Colors 65536 Printer Supported Protocol PictBridge Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal		
Resolution 800 * 600 @ 60Hz General Specifications Display Type TFT LCD Resolution 800 * 480 Size 8.5" Colors 65536 Printer Supported Protocol PictBridge Mass Memory Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power	VGA	
General SpecificationsDisplayTypeTFT LCDResolution800 * 480Size8.5"Colors65536Printer SupportedProtocolPictBridgeMass MemoryFlash Disk (internal), USB Disk (not supplied)Data Storage Space1G BytesPower SupplyInput Voltage Range, AC100 V to 240 V, nominalAC Supply Frequency45 Hz to 440 HzPower ConsumptionTypical 35 W, Max 60 W with all options.Operation Time at DC PowerAbout 3 hours, nominal	Connector	VGA compatible, 15-pin mini D-SUB
Type TFT LCD Resolution 800 * 480 Size 8.5" Colors 65536 Printer Supported Protocol PictBridge Mass Memory Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Resolution	800 * 600 @ 60Hz
Type TFT LCD Resolution 800 * 480 Size 8.5" Colors 65536 Printer Supported Protocol PictBridge Mass Memory Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	General Specifications	
Resolution 800 * 480 Size 8.5" Colors 65536 Printer Supported Protocol PictBridge Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Display	
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Colors 65536 Printer Supported Protocol PictBridge Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Resolution	800 * 480
Printer Supported Protocol PictBridge Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Size	8.5"
Protocol PictBridge Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Colors	65536
Mass Memory Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space Power Supply Input Voltage Range, AC AC Supply Frequency Power Consumption Operation Time at DC Power Mass Memory Flash Disk (internal), USB Disk (not supplied) 1G Bytes 100 V to 240 V, nominal 45 Hz to 440 Hz Typical 35 W, Max 60 W with all options. About 3 hours, nominal	Printer Supported	
Mass Memory Flash Disk (internal), USB Disk (not supplied) Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Protocol	PictBridge
Data Storage Space 1G Bytes Power Supply Input Voltage Range, AC 100 V to 240 V, nominal AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, nominal	Mass Memory	
Power Supply Input Voltage Range, AC Input Voltage Range, AC AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, pominal	Mass Memory	Flash Disk (internal), USB Disk (not supplied)
Input Voltage Range, AC AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, pominal	Data Storage Space	1G Bytes
AC Supply Frequency 45 Hz to 440 Hz Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, pominal	Power Supply	
Power Consumption Typical 35 W, Max 60 W with all options. Operation Time at DC Power About 3 hours, pominal	Input Voltage Range, AC	100 V to 240 V, nominal
Operation Time at DC Power About 3 hours, nominal	AC Supply Frequency	45 Hz to 440 Hz
' About 3 hours, nominal	Power Consumption	Typical 35 W, Max 60 W with all options.
About 3 Hours, Horring	Operation Time at DC Power	About 3 hours, naminal
Supply	Supply	About 5 flours, florilliar
Temperature	Temperature	
Operating temperature range $5 ^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$	Operating temperature range	5 °C to 40 °C
Storage temperature range −20 °C to 70 °C	Storage temperature range	–20 °C to 70 °C
Dimensions	Dimensions	
Dimensions 399 mm x 223 mm x 159 mm	Dimensions	399 mm x 223 mm x 159 mm
(W x H x D) (15.7 inches x 8.78 inches x 6.26 inches), approximate	(W x H x D)	(15.7 inches x 8.78 inches x 6.26 inches), approximate
Weight	Weight	
Weight Without battery pack: 6.2 kg (13.7 lbs), approximate; With battery pack: 7.4 kg (16.3 lbs), approximate	Weight	

Ordering Information

	Description	Order Number
	Spectrum Analyzer, 9 kHz to 3 GHz, with preamplifier	DSA1030A
Model	Spectrum Analyzer, 9 kHz to 3 GHz, with preamplifier, with track generator	DSA1030A-TG
	Spectrum Analyzer, 9 kHz to 3 GHz	DSA1030
	Spectrum Analyzer, 9 kHz to 3 GHz, with track generator	DSA1030-TG
	Front Panel Cover	FPCS-DSA1000
Standard Accessories	Quick Guide (Hard Copy)	-
	CDROM (User Guide, Programming Guide)	-
Accessories	USB Cable	-
Power Cable Conforming to the Standard of the Country		-
Options	Preamplifier (for DSA1030 and DSA1030-TG)	PA-DSA1030
	Advanced Measurement Kit (for DSA1030 and DSA1030-TG)	AMK-DSA1000
	PC software for EMI Pre-Competible testing	EMI Test System
	DSA PC Software	Ultra Spectrum
Optional Accessories	Include: N-SMA Cable, BNC-BNC Cable, N-BNC Adaptor, N-SMA Adaptor, 75 Ω – 50 Ω Adaptor, 900 MHz/1.8 GHz Antennas, 2.4 GHz Antennas	DSA Utility Kit
	Include: N(F)-N(F) Adaptor (1pcs), N(M)-N(M) Adaptor (1pcs), N(M)-SMA(F) Adaptor (2pcs), N(M)-BNC(F) Adaptor (2pcs), SMA(F)-SMA(F) Adaptor (1pcs), SMA(M)-SMA(M) Adaptor (1pcs), BNC T Type Adaptor (1pcs), 50Ω SMA Load (1pcs), 50Ω Impedance Adaptor (1pcs)	RF Adaptor Kit
	Include: 50Ω to 75Ω Adaptor (2pcs)	RF CATV Kit
	Include: 6dB Attenuator (1pcs), 10dB Attenuator (2pcs)	RF Attenuator Kit
	30dB High Power Attenuator, Max Power 100W	ATT03301H
	N(M)-N(M) RF Cable	CB-NM-NM-75-L-12G
	N(M)-SMA(M) RF Cable	CB-NM-SMAM-75-L-120
	RF Demo Kit (Transmitter)	TX1000
	RF Demo Kit (Receiver)	RX1000
	VSWR Bridge (1 MHz to 2 GHz)	VB1020
	VSWR Bridge (1 MHz to 3.2 GHz)	VB1032
	VSWR Bridge (800 MHz to 4 GHz)	VB1040
	VSWR Bridge (2 GHz to 8 GHz)	VB1080
	Near field probe	NFP-3
	Rack Mount Kit	RM-DSA1000
	Soft Carrying Bag	BAG-DSA1000
	USB to GPIB Interface Converter for Instrument	USB-GPIB
	11.1 V, 147 Wh Li-ion Battery Pack	BAT(China Only)
	Desk Mount Instrument Arm	ARM

Warranty

Three -year warranty, excluding accessories.

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