



Datenblatt



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Wir beraten Sie gerne!







- All-Digital IF Technology
- Frequency Range from 9 kHz up to 7.5 GHz
- Min. -161dBm Displayed Average Noise Level (Typ.)
- Min. < -98dBc/Hz @ 10kHz Offset Phase Noise
- Level Measurement Uncertainty < 0.8dB
- 10Hz Minimum Resolution Bandwidth (DSA832/875)
- Up to 7.5GHz Tracking Generator (DSA8XX-TG)
- Optional Preamplifier(DSA832/875)
- Advanced Measurement Functions (Opt.)
- EMI Filter & Quasi-Peak Detector Kit(Opt.)
- VSWR Measurement Kit(Opt.)
- PC Software(Opt.)
- Optional RF TX/RX Training Kit
- Optional RF Accessories(Cable, Adaptor, Attenuator, Bridge ...)
- Complete Connectivity: LAN(LXI), USB Host & Device, GPIB (Opt.)
- 8 Inch WVGA (800x480) Display
- Compact Size, Light Weight Design



DSA800 Series Spectrum Analyzer



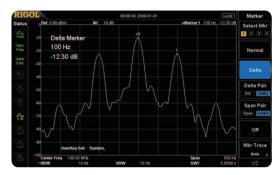
Product Dimensions: Width X Height X Depth = 361.6 mm x 178.8 mm x 128 mm

► Benefits of Rigol's all digital IF design

- The ability to measure smaller signals: on the basis of this technology, the IF fi lter enables smaller bandwidth settings, which greatly reduce the displayed average noise level.
- The ability to distinguish between small signals by frequency: using the IF fi Iter with the smallest bandwidth setting it is possible to make out signals with a frequency difference of only 10 Hz.
- 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.
- 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.
- 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.

▶ Features and Benefits

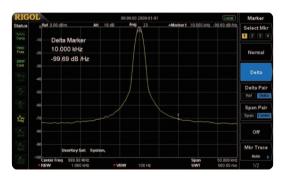
Distinguish the two nearby signals clearly with the 10Hz RBW (DSA832/875)



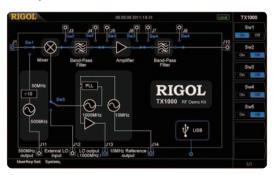
Readout the spectrum peak values with the peak table function



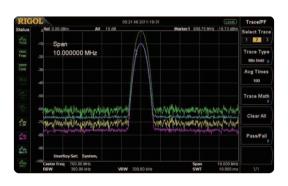
Phase noise <-98dBc/Hz @10 kHz offset (DSA832/875)



The GUI to control the RF demo kit (Transmitter) directly



Compare the spectrums with different color trace



Measure lower level signal with the preamplifier turn on



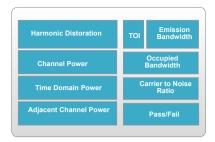
EMI kit(EMI filter & Quasi-peak & Pass/Fail)



VSWR measurement



► RIGOL Spectrum Analyzer Option and Accessory



Advanced Measurement Kit (AMK-DSA800)



Rack Mount Kit (RM-DSA800)



VSWR Bridge (VB1020/VB1040/VB1080)



RF Demo Kit (TX1000)



RF Demo Kit (RX1000)



RF CATV Kit



DSA Utility Kit



RF Adaptor Kit



RF Attenuator Kit



RF Cable Kit



High Power Attenuator



DSA PC Software (Ultra Spectrum)



Soft Carrying Bag (BAG-G1)



USB to GPIB Converter (USB-GPIB)

Specifications

Specifications are valid under the following conditions: the instrument is within the calibration period, is stored for at least two hours at 0 °C to 50 °C temperature, and is warmed up for 40 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 charts 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.

Frequency

Frequency			
	DSA815	DSA832	DSA875
Frequency range	9 kHz to 1.5 GHz	9 kHz to 3.2 GHz	9 kHz to 7.5 GHz
Frequency resolution	1 Hz		

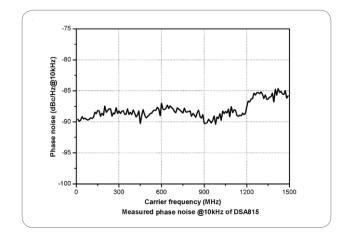
Internal Reference Frequency				
	DSA815	DSA832	DSA875	
Reference frequency	10MHz	10MHz		
Accuracy	±[(time since last adjustment × aging rate)+temperature stability + calibration accuracy]			
Initial calibration accuracy	<1ppm			
Tomporature atability	0°C to 50°C, reference to 25°C			
Temperature stability	< 2ppm < 0.5ppm			
Aging rate	< 2ppm/year	< 1ppm/year		

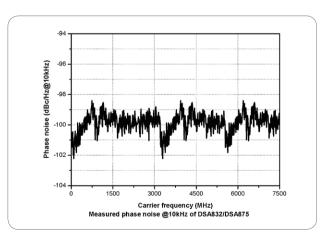
Frequency Readout Accuracy	
Marker resolution	span/ (number of sweep points - 1)
Marker uncertainty	\pm (frequency indication × frequency reference uncertainty + 1% × span + 10% × resolution bandwidth + marker resolution)

Frequency Counter	
Resolution	1 Hz, 10 Hz, 100 Hz, 1 kHz, 10kHz, 100kHz
Uncertainty	±(frequency indication × reference frequency accuracy + counter resolution)

Frequency Span	
Range	0Hz, 100Hz to maximum frequency of instrument
Uncertainty	±span/ (number of sweep points - 1)

SSB Phase Noise				
	20° C to 30° C , f_c =1 GHz			
Carrier offset	DSA815	DSA832	DSA875	
10 kHz	<-80 dBc/Hz	<-98 dBc/Hz		
100 kHz	<-100 dBc/Hz (typ.)	<-100 dBc/Hz (typ.)		





Residual FM			
20° C to 30° C , RBW = VBW = 1 kHz			
	DSA815	DSA832	DSA875
Residual FM	< 50 Hz (nom.)	< 20Hz (nom.)	

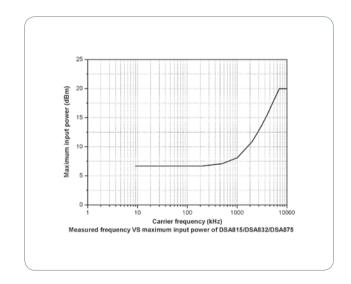
Bandwidths			
	DSA815	DSA832	DSA875
Resolution bandwidth (-3dB)	100 Hz to 1 MHz, in 1-3-10 sequence 10 Hz to 1 MHz, in 1-3-10 sequence		quence
RBW uncertainty	<5% (nom.)		
Resolution filter shape factor (60dB: 3dB)	<5 (nom.)		
Video bandwidth (-3dB)	1 Hz to 3 MHz, in 1-3-10 sequence		
Resolution bandwidth (-6dB) (EMI-DSA800 option)	200 Hz, 9 kHz, 120 kHz		

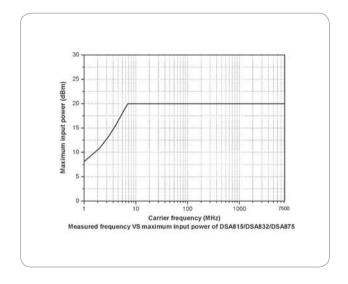
Amplitude

Measurement Range	
Danga	f _c ≥10MHz
Range	DANL to +20 dBm

Maximum Input Level	
DC voltage	50 V
CW PE	attenuation = 30 dB
CW RF power	+20 dBm (100 mW)
Max. damage level ^[1]	+30 dBm (1 W)

NOTE: [1] When $f_c \ge 10$ MHz, input level > +25 dBm and PA is Off, the protection switch will be on.

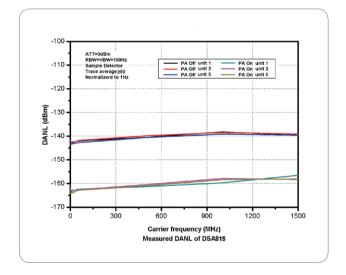


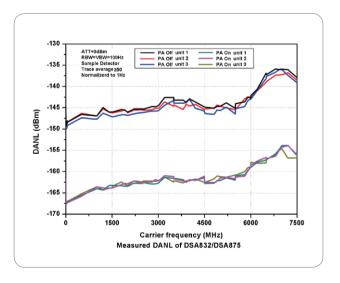


Displayed Av	Displayed Average Noise Level (DANL)			
		DSA815		
Frequency		attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average ≥ 50, tracking generator off, 20°C to 30°C, input impendence = 50 Ω		
PA off	100 kHz to 1 MHz	<-90 dBm, <-110 dBm (typ.)		
1MHz to 1.5 GHz		<-110 dBm+6×(f/1GHz)dB, <-115 dBm (typ.)		
PA on	100 kHz to 1 MHz	<-110 dBm, <-130 dBm (typ.)		
FA UII	1MHz to 1.5 GHz	<-130 dBm+6×(f/1GHz)dB, <-135 dBm (typ.)		

Displayed Av	verage Noise Level (DANL)		
		DSA832	DSA875
Frequency	quency attenuation = 0 dB, RBW = VBW = 10 Hz, sample detector, trace average ≥ generator off, 20°C to 30°C , input impendence = 50 Ω		Hz, sample detector, trace average \geq 50, tracking dence = 50 Ω
	9 kHz to 100 kHz	<-110 dBm (typ.)	<-110 dBm (typ.)
	100 kHz to 5 MHz	<-125 dBm, <-128 dBm (typ.)	<-125 dBm, <-128 dBm (typ.)
PA off	5 MHz to 3.2 GHz	<-130 dBm, <-134 dBm (typ.)	<-130 dBm, <-134 dBm (typ.)
	3.2 GHz to 6 GHz		<-126 dBm, <-130 dBm (typ.)
	6 GHz to 7.5 GHz		<-121 dBm, <-125 dBm (typ.)
	100 kHz to 5 MHz	<-142 dBm, <-145 dBm (typ.)	<-142 dBm, <-145 dBm (typ.)
PA on	5 MHz to 3.2 GHz	<-147 dBm, <-151 dBm (typ.)	<-147 dBm, <-151 dBm (typ.)
	3.2 GHz to 6 GHz		<-143 dBm, <-147 dBm (typ.)
	6 GHz to 7.5 GHz		<-138 dBm, <-142 dBm (typ.)

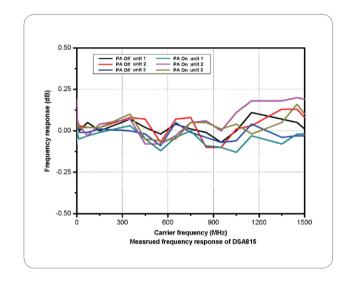
		DSA815	DSA832	DSA875	
Frequency		attenuation = 0 dB, RBW	attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average ≥ 50, tracking generator off, normalized to 1Hz, 20°C to 30°C , input impendence = 50 Ω		
	9 kHz to 100 kHz		<-120 dBm (typ.)	<-120 dBm (typ.)	
	100 kHz to 1 MHz	<-110 dBm, <-130 dBm (typ.)	<-135 dBm,	<-135 dBm,	
	1MHz to 5MHz	<-130 dBm+6×(f/1GHz)	<-138 dBm (typ.)	<-138 dBm (typ.)	
PA off	5 MHz to 1.5 GHz	dB, <-135 dBm (typ.)	<-140 dBm,	<-140 dBm,	
	1.5 GHz to 3.2 GHz		<-144 dBm (typ.)	<-144 dBm (typ.)	
	3.2 GHz to 6 GHz			<-136 dBm, <-140 dBm (typ.)	
	6 GHz to 7.5 GHz			<-131 dBm, <-135 dBm (typ.)	
	100 kHz to 1 MHz	<-130 dBm, <-150 dBm (typ.)	<-152 dBm,	<-152 dBm,	
	1MHz to 5MHz	<-150dBm + 6×	<-155 dBm (typ.)	<-155 dBm (typ.)	
	5 MHz to 1.5 GHz	(f/1GHz)dB, <-155 dBm (typ.)	<-157 dBm,	<-157 dBm,	
PA on	1.5 GHz to 3.2 GHz	, , , ,	<-161 dBm (typ.)	<-161 dBm (typ.)	
	3.2 GHz to 6 GHz			<-153 dBm, <-157 dBm (typ.)	
	6 GHz to 7.5 GHz			<-148 dBm, <-152 dBm (typ.)	

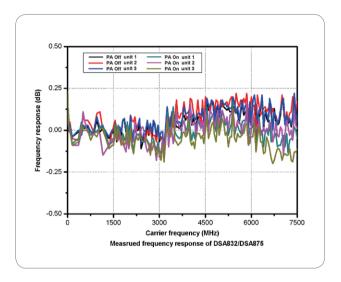




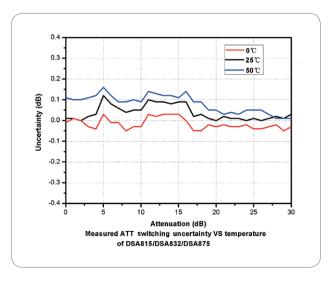
Level Display	
Logarithmic level axis	1 dB to 200 dB
Linear level axis	0 to Reference Level
Number of display points	601
Number of traces	3 + Math Trace
Trace detectors	normal, positive-peak, negative-peak, sample, RMS, voltage average
Trace detectors	quasi-peak (with EMI-DSA800 option)
Trace functions	clear write, max hold, min hold, average, view, blank
Units of level axis	dBm,dBmV, dBμV, nV, μV, mV, V, nW, μW, mW, W

Frequency Response				
		DSA815	DSA832	DSA875
Frequency response		f _c ≥100kHz, attenuation = 10 dB, rela	ive to 50 MHz, 20°C to 30 °C	
PA off	100kHz to 1.5GHz	<0.7 dB	<0.5 dB, <0.3 dB(typ.)	
	1.5GHz to 3.2GHz			
	3.2GHz to 7.5GHz		<0.7 dB, <0.3 dB(typ.)	
		f _c ≥1MHz, attenuation = 10 dB, relative to 50 MHz, 20°C to 30 °C		
	100kHz to 1.5GHz	<1.0 dB	-0.7 dD0.2 dD/h/m)	
PA on	1.5GHz to 3.2GHz		<0.7 dB, <0.3 dB(typ.)	
	3.2GHz to 7.5GHz		<0.9 dB, <0.3 dB(typ.)	





Input Attenuation Switching Uncertainty				
DSA815 DSA832 DSA875				
Setting range	0 to 30 dB, in 1 dB step			
Cuitabina unacrtaintu	f _c =50 MHz, relative to 10 dB, 20 °C to	30 °C		
Switching uncertainty	< 0.5 dB	< 0.3 dB		



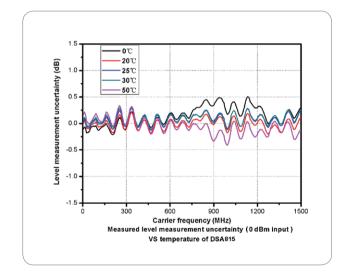
Absolute Amplitude Uncertainty					
	DSA815	DSA832	DSA875		
Uncertainty	f _c = 50 MHz, peak detector, preampli 20 °C to 30 °C	fier off, attenuation = 10 dB, input	t signal level = -10 dBm,		
-	<0.4dB	<0.3 dB			

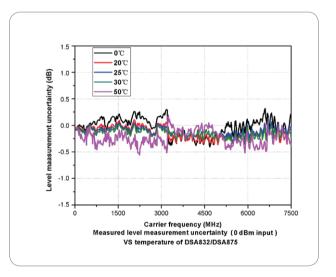
RBW Switching Uncertainty			
Lincortainty	relative to 1 kHz RBW		
Uncertainty	<0.1 dB		

Reference Level		
Range		-100 dBm to +20 dBm, in 1 dB step
Decelution	log Scale	0.01 dB
Resolution	linear Scale	4 digits

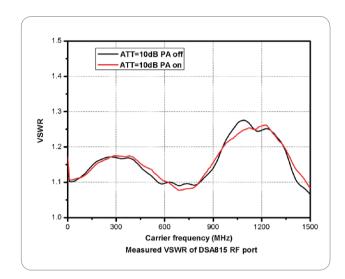
Preamplifier					
		DSA815 (standard)	PA-DSA832 (option)	PA-DSA875 (option)	
Gain	100kHz to 1.5 GHz	20 dB(nom.)	17 dB(nom.)		
	1.5GHz to 3.2 GHz		17 db(non.)	17 dB(nom.)	
	3.2GHz to 7.5 GHz				

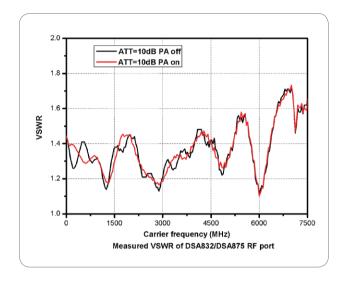
Level Measurement Uncertainty			
	DSA815	DSA832	DSA875
95% confidence level, S/N > 20 dB, RBW = VBW = 1 kHz, preamplifier off, attenuation = 10 dB, -50 dBm < input level ≤ 0 dBm, fc > 10 MHz, 20 °C to 30 °C to			
Level measurement uncertainty	<1.5 dB(nom.)	<0.8 dB (nom.)	





RF Input VSWR					
		DSA815	DSA832	DSA875	
		attenuation ≥ 10 dB			
VSWR	300kHz to 1.5GHz	<1.5(nom.)	44 E(mains)	44 E(nom)	
	1.5GHz to 3.2GHz		<1.5(nom.)	<1.5(nom.)	
	3.2GHz to 7.5GHz			<1.8(nom.)	



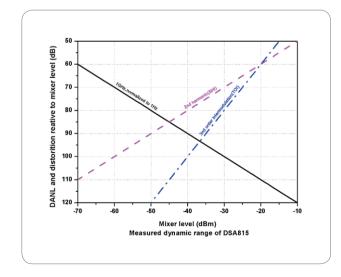


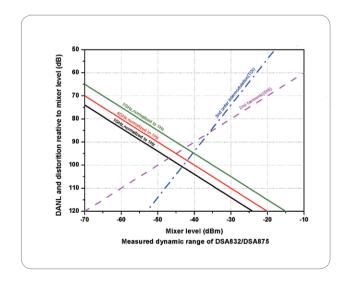
Distortion

Second Harmonic Intercept				
	DSA815	DSA832	DSA875	
Second harmonic Intercent (SUI)	f _c ≥ 50 MHz, input signal level = -20 dBm, attenuation = 10 dB			
Second harmonic Intercept (SHI)	+40dBm	+45dBm		

Third-order Intercept					
	DSA815	DSA832	DSA875		
Third-order intercept	$f_c \ge 50$ MHz, two -20dBm tones at input mixer spaced by 200kHz, attenuation = 10 dB		nuation = 10 dB		
(TOI)	+10dBm	+11 dBm, +15 dBm (typ.)			

1dB Gain Compression	
1dB compression of input mixer	$f_c \ge 50$ MHz, attenuation = 0 dB
(P _{1dB})	>0dBm





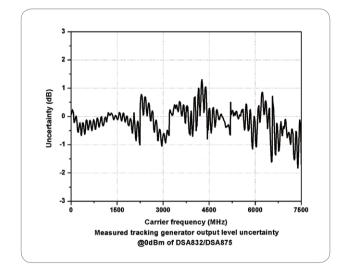
Spurious Responses					
Spurious response	DSA815	DSA832	DSA875		
	input terminated 50 Ω, atte	input terminated 50 Ω, attenuation = 0 dB, 20°C to 30°C			
Эриноиз тевропве	< -88dBm (typ.)	< -90dBm, < -100dBm (typ.)			
Intermediate frequency	<-60 dBc				
System related sidebands	referenced to local oscillators, referenced to A/D conversion, referenced to subharmonic of first LO, referenced to harmonic of first LO				
,	<-60 dBc				
Input Related Spurious	mixer level = -30 dBm				
	<-60 dBc				

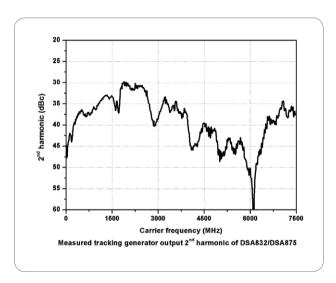
Sweep

Sweep				
		DSA815	DSA832	DSA875
Sweep time	Span≥100 Hz	10ms to 1500s	1ms to 1500s	1ms to 1500s
	zero span	20 μs to 1500 s	20 µs to 3200 s	20 μs to 7500 s
	Span≥100 Hz	5%(nom.)		
Sweep time uncertainty	zero span (sweep time setting value > 1 ms)	5%(nom.)		
Sweep mode	·	continuous, single		

Tracking Generator (Option)

TG Output			
	DSA815	DSA832	DSA875
Frequency range	100 kHz to 1.5 GHz	100 kHz to 3.2 GHz	100 kHz to 7.5 GHz
Output level range	-20 dBm to 0 dBm	-40 dBm to 0 dBm	
Output level resolution	1 dB		
Output flatness	relative to 50 MHz		
	±3 dB (nom.)		





Trigger Functions

IEC/IEEE(GPIB) bus(USB-GPIB option) IEEE488.2

Trigger	
Trigger source	Free run, video, external
External trigger level	5 V TTL level

External trigger level		5 V TTL level		
nput /Output				
Front Panel Conne	ectors			
RF input	impedance	50 Ω (nom.)		
	connector	N female		
Tracking	impedance	50 Ω (nom.)		
generator output	connector	N female		
Internal/ External I	Reference			
	frequency	10 MHz		
Internal	output level	+3 dBm to +10 dBm, +8 dBm (typ.)		
reference	impedance	50Ω (nom.)		
	connector	BNC female		
	frequency	10 MHz±5 ppm		
External	input level	0 dBm to +10 dBm		
reference	impedance	50 Ω (nom.)		
	connector	BNC female		
External Trigger In	put			
External trigger	impedance	1 kΩ (nom.)		
input	connector	BNC female		
Communication In	terface			
LICP hoot	connector	A plug		
USB host	protocol	Version2.0		
USB device	connector	B plug		
OOD GEVICE	protocol	Version2.0		
LAN	LXI core 2011 device	10/100Base, RJ-45		

General Specifications

General Speci	ifications				
Display					
Туре		TFT LCD			
Resolution		800 x 480 pixels			
Size		8 inch			
Colors		64 k			
Printer Supported	d				
Protocol		PictBridge			
Mass Memory					
Mass Memory		Flash Disk (internal), USB Disk (no	ot supplied)		
-					
Power Supply					
Input Voltage Ra	nge, AC	100 V to 240 V (nom.)			
AC Supply Frequ		45 Hz to 440 Hz			
Power Consump	tion	35 W (typ.), max. 50 W with all options			
Environmental					
_	Operating temperature range	0°C to 50°C			
Temperature	Storage temperature range	-20°C to 70°C			
	0°C to 30°C	≤95% rel. humidity			
Humidity	30°C to 40°C	≤75% rel. humidity			
Altitude	operating height	up to 3,000m			
Electromagnetic	Compatibility and Safety	,			
J	In line with EN61326-				
	IEC 61000-4-2:2001	±4.0kV (contact discharge), ±4.0k	(V (air discharge)		
	IEC 61000-4-3:2002	3V/m (80MHz to 1GHz) 3V/m (1.4GHz to 2GHz) 1V/m (2.0GHz to 2.7GHz)			
	IEC 61000-4-4:2004	1kV power lines			
EMC	IEC 61000-4-5:2001	0.5kV (Phase to Neutral) 0.5kV (Phase to PE) 1kV (Neutral to PE)			
	IEC 61000-4-6:2003	3V,0.15-80MHz			
	IEC 61000-4- 11:2004	Voltage dip: 0% UT during half cycle 0% UT during 1 cycle 70% UT during 25 cycles Short interruption:0% UT during 2	250 cycles		
Electrical Safety	In line with				
		, , , , , , , , , , , , , , , , , , , ,	,		
Dimensions					
(W x H x D)	361 6 mm x 178 8 mm x 128 mm				
Weight					
		DSA815	DSA832	DSA875	5
Standard		4.25 kg (9.4 lb)	4.55 kg (10.0 lb)		
With tracking generator		7.20 Ng (0.7 ID)	5.15 kg (11.4 lb)		

Ordering Information

	Description	Order Number
	Spectrum Analyzer, 9 kHz to 1.5 GHz (with preamplifier)	DSA815
Model	Spectrum Analyzer, 9 kHz to 3.2 GHz	DSA832
	Spectrum Analyzer, 9 kHz to 7.5 GHz	DSA875
	Spectrum Analyzer, 9 kHz to 1.5 GHz (with preamplifier, with tracking generator, factory installed)	DSA815-TG
	Spectrum Analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed)	DSA832-TG
	Spectrum Analyzer, 9 kHz to 7.5 GHz (with tracking generator, factory installed)	DSA875-TG
21 1 1	quick guide (hard copy)	QGD07X00
Standard accessories	CDROM (user's guide, programming guide)	-
accessories	power cable	-
	preamplifier, 100 kHz to 3.2 GHz (only for DSA832)	PA-DSA832
	preamplifier, 100 kHz to 7.5 GHz (only for DSA875)	PA-DSA875
Ontinun	EMI filter & quasi-peak detector	EMI-DSA800
Options	advanced measurement kit	AMK-DSA800
	VSWR measurement kit	VSWR-DSA800
	DSA PC software	Ultra Spectrum
	include: N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75 Ω to 50 Ω adaptor, 900 MHz/1.8 GHz antenna (2pcs), 2.4 GHz antenna (2pcs)	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), 50 Ω SMA load (1pcs), 50 Ω BNC impedance adaptor (1pcs)	RF Adaptor Kit
	include: 50 Ω to 75 Ω adaptor (2pcs)	RF CATV Kit
	include: 6dB attenuator (1pcs), 10dB attenuator (2pcs)	RF Attenuator Kit
	30dB high power attenuator, max. power 100W	ATT03301H
Optional	N(M)-N(M) RF cable	CB-NM-NM-75-L-12G
accessories	N(M)-SMA(M) RF cable	CB-NM-SMAM-75-L-12G
	RF demo kit (transmitter)	TX1000
	RF demo kit (receiver)	RX1000
	VSWR bridge with VSWR-DSA800, 1 MHz to 2 GHz	VB1020
	VSWR bridge with VSWR-DSA800, 800 MHz to 4 GHz	VB1040
	VSWR bridge with VSWR-DSA800, 2 GHz to 8 GHz	VB1080
	rack mount kit	RM-DSA800
	soft carrying bag	BAG-G1
	USB to GPIB interface converter for instrument	USB-GPIB

Warranty

Three -year warranty, excluding probes and accessories.

RIGOL

Headquarter

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- Supports RIGOL DSA1000 series and DSA800 series
- Control parameter configuration of the Spectrum Analyzer
- Operation and processing of the data acquired from the Spectrum Analyzer
- Supports *.csv, *.jpg, *.png, *.bmp files
- Various marker setting functions
- Powerful trace display and operation functions
- Peak and valley detection
- Various advanced measurement functions
- · View history spectrum data
- Amplitude correction data editing
- SCPI Command List and Command Log

RIGOL Ultra Spectrum is PC software for RIGOL DSA1000 series and DSA800 series, to control the parameter configuration of the Spectrum Analyzer. It can be used for operation and processing of the data acquired from the Spectrum Analyzer.



Main Features

Basic Mode

In the Basic Mode it is possible to control the Spectrum Analyzer remotely.

In addition various marker setting functions are available, like creating up to 20 markers and displaying the values of the markers in the marker table.

The following trace display functions stand by:

- Line (no bar)
- Vertical Bar
- Horizontal Bar



Advanced Mode

In this mode, the Peak and Valley Detect function is available, so the software will search for peaks and valleys automatically.

The History Spectrum Data can be shown, and a 3D waterfall graph or intensity graph can be created.

Various advanced measurement functions stand by:

- Time Power
- Channel Power
- Adjacent Channel
- Occupied and Emission BW
- C/N Ration
- Harmonic Distortion
- 3rd Order Intermodulation Distortion
- Pass/Fail Test

Product Overview

Ultra Spectrum is a software tool, that supports RIGOL DSA1000 and DSA800 series Spectrum Analyzer $\,$

This software tool is compatible with Windows XP, Windows Vista and Windows 7 operating systems.

There are 2 working modes, the Basic Mode and the Advanced Mode Ultra Spectrum supports *.csv, *.jpg, *.png, *.bmp files.



There are also seven basic and twelve user defined trace operation functions:

- Peak
- Freeze
- Valley
- Video Average
- Max Hold
- Power Average
- Min Hold



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