



Excellent Performance, Highly Reliable,  
*Able to Fully Replace the DSA1000 Series*



# DSA832E

## Spectrum Analyzer

### HEADQUARTER

RIGOL TECHNOLOGIES, INC.  
No.156,Cai He Village,  
Sha He Town,  
Chang Ping District, Beijing,  
102206 P.R.China  
Tel:+86-10-80706688  
Fax:+86-10-80705070  
Electronic Measurement  
Instrument service and support  
email:EMD\_support@rigol.com

### EUROPE

RIGOL TECHNOLOGIES GmbH  
Lindbergh str. 4  
82178 Puchheim  
Germany  
Tel: 0049- 89/89418950  
Email: info-europe@rigoltech.com

### NORTH AMERICA

RIGOL TECHNOLOGIES, USA INC.  
10200 SW Allen Blvd, Suite C  
Beaverton, OR 97005, USA  
Toll free: 877-4-RIGOL-1  
Office: (440) 232-4488  
Fax: (216)-754-8107  
Email: info@rigol.com

### JAPAN

RIGOL TECHNOLOGIES JAPAN G.K.  
Tonematsu Bldg, 5F, 2-33-8 Nihonbashi-  
Ningyocho, Chuo-ku,  
Tokyo 103-0013  
Japan  
Tel: +81-3-6264-9251  
Fax: +81-3-6264-9252  
Email: info-japan@rigol.com

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RIGOL TECHNOLOGIES, INC.

## Advantages and Characteristics

- All-Digital IF Technology
- Frequency Range from 9 kHz to 3.2 GHz
- Min. -148 dBm Displayed Average Noise Level (Typ.)
- Min. -90 dBc/Hz @ 10 kHz Offset Phase Noise
- Level Measurement Uncertainty <1.0 dB
- 10 Hz Minimum Resolution Bandwidth
- Up to 3.2 GHz Tracking Generator (DSA832E-TG)
- Optional Preamplifier
- Advanced Measurement Functions (Opt.)
- EMI pre-compliance test function(Opt.)
- EMI Filter & Quasi-Peak Detector Kit (Opt.)
- VSWR Measurement Kit (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 TFT LCD Display
- Compact Size, Light Weight Design

## Brief Technical Parameters

Frequency	
Frequency range	9 kHz to 3.2 GHz
Frequency resolution	1 Hz
SSB Phase Noise	
	20 C to 30 C , $f_c=1$ GHz
Carrier offset	10 kHz offset < -90 dBc/Hz
Amplitude Measurement Range	
Range	$f_c \geq 10$ MHz DANL to +20 dBm
Displayed Average Noise Level (DANL)	
	RBW = VBW = 10 Hz, sample detector, trace average $\geq 50$ , tracking generator off, 20 C to 30 C , input impedance = 50 $\Omega$
PA OFF	<-130dBm (typ.)
PA ON	<-148dBm (typ.)
Distortion	
Second harmonic intercept (SHI)	$f_c \geq 50$ MHz, input signal level = -20 dBm, attenuation = 10 dB +40 dBm
Third-order intercept (TOI)	$f_c \geq 50$ MHz, two -20 dBm tones at input mixer spaced by 200 kHz, attenuation = 10 dB +7 dBm

## Advantages and Characteristics

- EMI pre-compliance testing
- VSWR and antenna resonant point testing
- Use Built-in tracking source to perform economical and efficient incentive response measurement
- Channel power monitoring and pass/fail verification
- Mass production requirements for the measurement and monitoring of spectral signals
- Applicable to RF industrial region, such as R&D, lower cost manufacture industry etc
- Measurement requirements for electronics fans of spectrum analyzer
- Combined with the Microwave & RF education and training kit; applicable to RF education field; get to deeply understand the theories by practical operations

## Price and Application Solutions

Please contact the RIGOL Regional Sales Manager for further information

## Ordering Information

	Description	Order Number
Model	spectrum analyzer, 9 kHz to 3.2 GHz	DSA832E
	spectrum analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed)	DSA832E-TG
Standard accessories	quick guide (hard copy)	-
	power cable	-
Options	preamplifier, 100 kHz to 3.2 GHz	PA-DSA832
	EMI filter & quasi-peak detector	EMI-DSA800
	advanced measurement kit	AMK-DSA800
	VSWR measurement kit	VSWR-DSA800
	DSA PC software	Ultra Spectrum
Optional accessories	include: N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75 $\Omega$ to 50 $\Omega$ 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 $\Omega$ SMA load (1pcs), 50 $\Omega$ BNC impedance adaptor (1pcs)	RF Adaptor Kit
	include: 50 $\Omega$ to 75 $\Omega$ 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-12G
	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
	EMI PC software	S1210 EMI Pre-compliance Software
	rack mount kit	RM-DSA800
soft carrying bag	BAG-G1	
USB to GPIB interface converter for instrument	USB-GPIB	