

Handheld Spectrum Analyzer

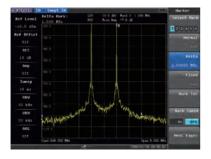
Overview

E8000A handheld spectrum analyzer is an ideal testing instrument for engineer working at the wireless base station for 2G/3G/4G, WiFi and broadcast installation and maintenance.

E8000A covers frequency range: 9 kHz ~ 3000 MHz and has tracking generator option.

Large Dynamic Range Spectrum Analysis

E8000A series covers wide frequency range: 9 kHz ~ 3000 MHz and provide +15 dBm IP3 and lower noise.

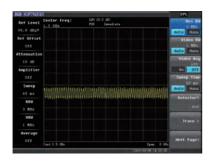


Interference Signals Analysis

E8000A provides features such as signal strength indication, spectrogram and fluorogram to find out interference signals.



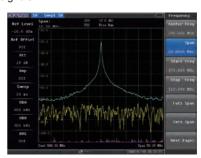
E8000A supports FM/AM demodulation and then distinguishes noise.





Fast Sweep Speed

E8000A provides 1 ms minimum sweep time to detect any complex interference signals.



RF Signals Analysis Function

E8000A provides one-button measurement for channel power, OBW and adjacent channel power.



GPS Receiver Option

GPS receiver option provides location (longitude, latitude, altitude) and Universal Time (UT) information. For the E8000A series, all measurement results can be saved with location and time information.

Wireless Communication | DEVISER



Specifications

Opcomodiona		
Frequency		
Frequency Range	9 kHz ~ 3000 MHz	
Frequency Reference		
Aging	± 1 ppm per year	
Stability	± 1 ppm	
Temperature Stability	± 2 ppm (0 to +50°C)	
Frequency Resolution	1 Hz	
Marker Count Accuracy (S/N 25 dB, RBW/span 0.01)		
Accuracy	±2 ppm, ±1 count	
Counter Resolution	1 Hz	
Frequency Span		
Range	0 Hz (Zero Span), 1 kHz to 3000 MHz	
Sweep and Trigger		
Range	1 mSec to 250 sec (Span > 1 kHz) 20 µSec to 500 sec (Span = 0 Hz)	
Accuracy	< ± 0.2%	
Trigger Type	Free run, Single, Video, TV	
Resolution Bandwidth		
Range	1 Hz to 3 MHz in 1-3-10 sequence	
Bandwidth Accuracy	< ± 10%	
Selectivity (60 dB/3 dB Bandwidth Ratio)	< 5:1	
Video Bandwidth		
Range	1 Hz to 1 MHz in 1-3-10 sequence	
Stability		
Phase Noise	< -105 dBc/Hz @ 100 kHz offset from CW signal < -95 dBc/Hz @ 1 kHz offset from CW signal < -85 dBc/Hz @ 1 kHz offset from CW signal	
Amplitude		
Measurement Range	Displayed average noise level to furthest safe input level	
Input Attenuator		
Range	0 dB ~ 55 dB	
Step	5 dB	
Internal Preamplifier		
Frequency Range	1 MHz to 3000 MHz	
Gain	15 dB	
Max. Safe Input	+30 dBm (peak power/input attenuation >15 dB), 50 VDC	
Displayed Average Noise Level (Input Terminated, 0 dB Attenuator, RBW=1Hz, VBW=1Hz, Sample Detector)		
Pre-amplifier OFF (Typical)	< -150 dBm 1 MHz ~ 1 GHz < -146 dBm 1 GHz ~ 3 GHz	
Pre-amplifier ON (Typical)	< -165 dBm 1 MHz ~ 1 GHz < -161 dBm 1 GHz ~ 3 GHz	
Spurious Responses		
Second Harmonic	< -70 dBc for -20 dBm signal at input mixer	
TOI	>+15 dBm (two -20 dBm signals at input mixer with $\geqslant\!\!1$ MHz separation and att=0)	

Residual Responses (Input Terminated and 0 dB	< -85 dBm 1 MHz to 3000 MHz	
Attenuator) Display Range		
Log Scale	0.1 to 1 dB/div in 0.1 dB step 1 to 40 dB/div in 1 dB step	
Linear Scale	10 divisions	
Scale Units	dBm, dBmV, dBµV, mV	
Marker Readout Resolution	0.03 dB for log scale 0.03% of ref level for linear scale	
Traces	6 traces	
Trace Detector	Sample, Posi-peak, Neg-peak, Normal, Average, RMS, Quasi-peak	
Marker Functions	Peak, Next peak, Marker to center, Marker to ref, etc.	
Marker Display	Normal, Delta, Fix marker & Frequency counter	
Reference Level	-130 dBm to +30 dBm	
Level Accuracy	< ± 1 dB @ +25°C (Typical)	
Input/Output		
RF Input		
Input	N connector	
Input Impedance	50 Ω	
USB Port	USB 2.0 port and USB 1.1 port	
LAN Port	10 M / 100 M RJ45	
TG Out		
Output	N connector	
Frequency Range	10 MHz to 3000 MHz	
Phase Noise	< -70 dBc/Hz @ 10 kHz	
Level Range	-30 dBm to 0 dBm	
Level Resolution	1 dB	
Level Accuracy	± 2 dB	
Harmonic Distortion	< -20 dBc	
Non-Harmonic Distortion	< -30 dBc	
Output Impedance	50 Ω	
Power Specifications		
Battery Type	11.1V @ 5.2Ah Lithium-lon	
Charge Time	< 5 Hours	
Operating Time	> 3.5 Hours	
AC Adapter	19 V DC @ 3.42 A	
Other Specifications		
Operating Temperature	-10 °C to +55 °C	
Storage Temperature	-30 °C to +80 °C	
Dimension (W x H x D)	258 mm x 173 mm x 74 mm	
Weight (With Battery)	<2.2 kg	
Display Type	6.5 inch TFT color LCD	
Display Resolution	640 x 480 pixels	
Language	Chinese, English	