



Spectrum Analyzer

OSA9000 Series

- Frequency range: 9 kHz to 1.5 GHz / 3 GHz; resolution: 1 Hz.
- Amplitude resolution: ± 1.0 dB; resolution BW: 10 Hz to 1 MHz (step 1-3-10).
- Phase noise: -80 dBc/Hz.
- Quasi-peak detector, channel power measurement, adjacent channel power measurement, occupied BW measurement.
- USB host, USB device, LAN, RS-232.

Model		OSA9015	OSA9030	
Frequency	Range	9 kHz ~ 1.5 GHz	9 kHz ~ 3.0 GHz	
	Resolution	1 Hz		
Internal Frequency Reference	Frequency Reference	10 MHz		
Frequency Readout Accuracy	Marker Resolution	Span/ (sweep points-1)		
	Marker Uncertainty	± (frequency indication × frequency reference uncertainty + 1% × span + 10% × resolution bandwidth + marker resolution)		
Frequency Span	Frequency Span Range	0 Hz, 100 Hz ~ 1.5 GHz	0 Hz, 100 Hz ~ 3.0 GHz	
	Uncertainty	±span/ (sweep points-1)		
SSB Phase Noise	Input Coupling	-80 dBc/Hz (10 kHz offset, fc=1.0 GHz)		
Bandwidths	Resolution Bandwidth (-3 dB)	10 Hz ~ 1 MHz, step 1-3-10 200 Hz, 9 kHz, 120 kHz		
	RBW Uncertainty	<5%, nominal		
	Resolution Filter Shape Factor (60 dB: 3 dB)	<5, nominal		
	Video Bandwidth (-3 dB)	1 Hz to 1 MHz, step 1-3-10		
Measurement Range	Range	DANL to +30 dBm		
Maximum Input Level	CW RF Power	+30 dBm (1.0 W)		
	Max Damage Level	+40 dBm (10 W)		
Displayed Average Noise Level (DANL)	DANL (Preamplifier Off)	100 kHz to 10 MHz	-90 dBm, typ. -110 dBm	
		10 MHz to 3.0 GHz	120 dBm+6 x (f/1 GHz) dB, typ. -125 dBm	
	DANL (Preamplifier On)	100 kHz to 30 MHz	-90 dBm, typ. -110 dBm	
		30 MHz to 3.0 GHz	-135 dBm+6 x (f/1 GHz) dB, typ. -140 dBm	
Level Display	Trace Detectors	Positive-peak, negative-peak, quasi-peak, sample, standard, rms average, voltage average		
	Trace Functions	Clear write, max hold, min hold, average, view, blank		
	Units of Level Axis	dBm, dB mV, dB μV, V, W		
Reference Level	Range	-100 dBm to +30 dBm, step 1 dB		
Spurious	Image Frequency	<-60 dBc		
	Intermediate Frequency	<-60 dBc		
	Spurious Response	<-90 dBm, typ.		
	Input Related Spurious	Mixer level: -30 dBm	<-60 dBc, typ.	
Sweep	Sweep Time Range	100 Hz≤Span≤3 GHz	10 ms to 3000 s	
		Span=0 Hz	20 μs to 3000 s	
	Sweep Time Uncertainty	100 Hz≤Span≤3 GHz	5%, nominal	
	Sweep Mode	Span=0 Hz	0.5%, nominal Continuous, single	
Trigger	Trigger Source	Free, Video, External		
	External Trigger Level	5 V TTL level		
Advance Measurement	EMI	9 kHz, 120 kHz, 200 kHz		
General Characteristics	Interface	USB_Host, USB_Device, LAN, RS232		
	Display	7 inch TFT LCD		
	Power Supply	Input Voltage	AC100 V to 240 V	
		Frequency	4 5 Hz to 440 Hz	
		Power Consumption	35 W	
	Environment	Temperature	5 °C to 40 °C	
Dimension & Weight	364 × 154 × 327 mm (W × H × L), approx. 6.0 kg			
Output	Output Power	-20 dBm to 0 dBm, step 1 dB		
	Output Flatness	20 MHz ~ 2.7 GHz ±3 dB		
		20 MHz ~ 2.2 GHz ±2 dB		
		20 MHz ~ 1.5 GHz ±2 dB		

Accessories

OSA9000 -A1	User Guide
OSA9000 -A2	Measurement Idler Wheels (X2)
OSA9000 -A3	Measurement Touch Tips (X2)
OSA9000 -A4	Lengthening Bar
OSA9000 -A5	Portable Bag
OSA9000 -A6	Plastic Bag

