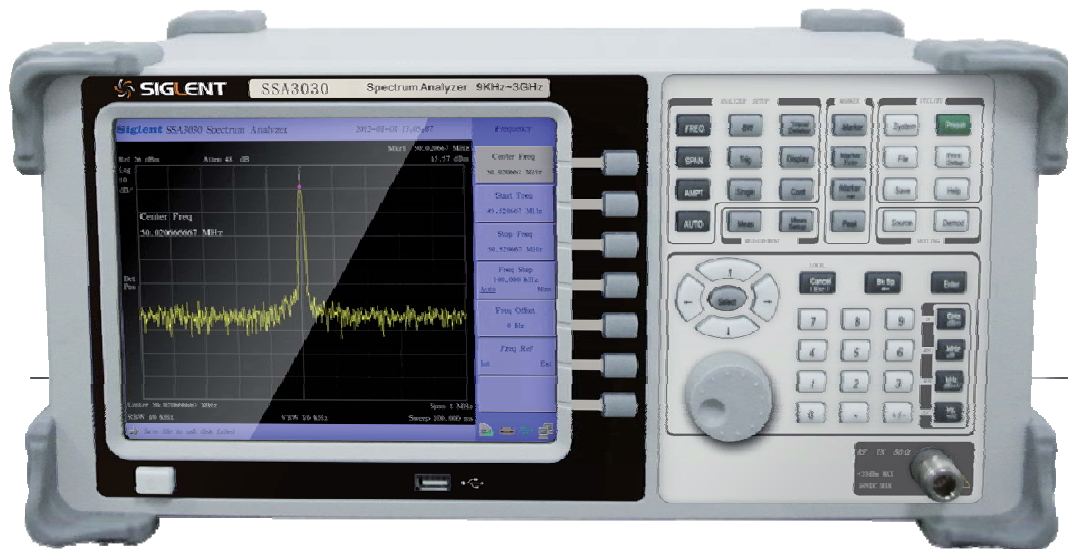


Spectrum Analyzer SSA3030



CHARACTERISTICS:

- All digital IF design
- 9kHz to 3GHz frequency range
- 5Hz minimum Resolution Bandwidth (RBW)
- -122 dBm Displayed Average Noise Level (DANL)
- +33 dBm maximum safe input level
- AM,FM demodulate
- Measurement functions (Channel power,ACPR,OBW,Chromatograms)
- Multi-window, local scaling measurements show
- 8.4 inches widescreen with 800*600 high resolution
- Various interface options such as USB,LAN,RS-232,VGA and GPIB

Specifications

Specifications are valid after 30 minute warm up with a valid calibration.

Frequency		
Frequency range		9kHz to 3GHz
Frequency resolution		1Hz
Reading accuracy		\pm (frequency marker read value \times frequency reference accuracy + 1% \times span + 10% \times RBW + 0.5 \times [span / (span spot - 1)] + 1Hz)
Internal frequency reference (10MHz)	Aging rate	< 1ppm/year
	Temperature Drift	< 0.1ppm (15°C to 35°C)

Bandwidths		
Resolution bandwidth		5Hz to 500kHz (1 to 10 continuous), 1MHz, 3MHz
Resolution filter shape factor (60dB/3dB)	RBW \leq 500kHz	< 5:1 typical value
RBW accuracy		< 5% typical value
Video bandwidth		10Hz to 3MHz

Displayed Average Noise Level (DANL)		
RBW=10Hz		
1MHz		-120dBm
120MHz		-124dBm
600MHz		-122dBm
1250MHz		-125dBm
1850MHz		-123dBm
2350MHz		-121dBm
2650MHz		-120dBm
3000MHz		-118dBm

Phase Noise		
Carrier Offset	10kHz	< -85dBc/Hz typical value
Carrier Offset	1MHz	< -115 dBc/Hz typical value

Sweep Time		
Sweep time range	(100Hz \leq SPAN \leq 1GHz)	10ms to 3000s
Sweep time range	(SPAN=0 Hz)	1ms to 3000s
Sweep mode		continuous, single

Amplitude Accuracy (20°C to 30°C)		
Total amplitude uncertainty (90%)	Input signal range: 0dBm to -50dBm	\pm 1.5dB

Amplitude		
Maximum safe input level	Average continuous power	+33dBm
Maximum DC voltage		50Vdc
Input attenuator range		0 to 50 dB
1dB gain compression		+7dBm
Intermodulation and Spurious Response		
Third-order Intermodulation (TOI)	>30MHz	+13dBm
Second Harmonic Intercept (SHI)		+30dBm
System-related		<-60dBc
Spurious response		<-85dBm
Input/ Output		
RF input		N female (50 Ω)
USB		USB 1.1 (host), USB1.1 (device)
LAN		10/100 Base-T, RJ-45
RS232		9-pin D -SUB (male)
GPIO		IEEE-488
REF In/REF Out	10MHz,BNC female	Input power :0dBm to +10dBm Output power: 0dBm ± 2dB
VGA	600×480,60Hz	15-pin D -SUB (female)
AM/FM modulation		Headphone jack
General Specifications		
Internal data storage		256MB
Display		8.4 inches TFT-LCD
Max weight		8.6 kg
Dimensions		390(W)×182(H)×230(D)mm
Operating temperature		0 °C to 40 °C
Storage temperature		-20 °C to 70 °C
Power	Input voltage range	220VAC ± 15%;110VAC ± 15%
	AC frequency range	40Hz to 60Hz
	Power consumption	Max.60W
Generator (optional)		
Frequency range		100kHz to 3GHz
Output power		-30dBm to 0dBm
Output flatness	Tracking generator	± 3dB
	Signal generator	± 2dB
RF output		N-female (50 Ω)