

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com

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HSA1000 Series

Handheld Spectrum Analyzer

optional bac

• Frequency range 9 kHz to 1.6GHz/3.6GHz

OWON[®] HSA1036 Spectrum Analyzer/9 kHz - 3.6 GHz

- -160 dBm DANL (Displayed Average Noise Level)
- Phase Noise < -80 dBc/Hz @1GHz at 10 kHz offset
- 10Hz Minimum Resolution Bandwidth (RBW)
- Total Amplitude Accuracy <1.5 dB
- Provide EMI pre-compliance test function, optional EMC test software
- Standard Pass/Fail on-site test alert ability

IPS

- Li-ion battery, operating life up to 4 6 hours, easy replacement, you can purchase extra batteries for longer test time.
- Optional 1.6GHz/3.6GHz tracking generator, 3.6GHz signal generator
- Standard GPS receiver, optional antenna, the latitude/longitude information and test information can be recorded
- 8-inch (1024*768) IPS LCD touchscreen, wider viewing angle, built-in light sensor to adjust the screen backlight according to the environmental light.

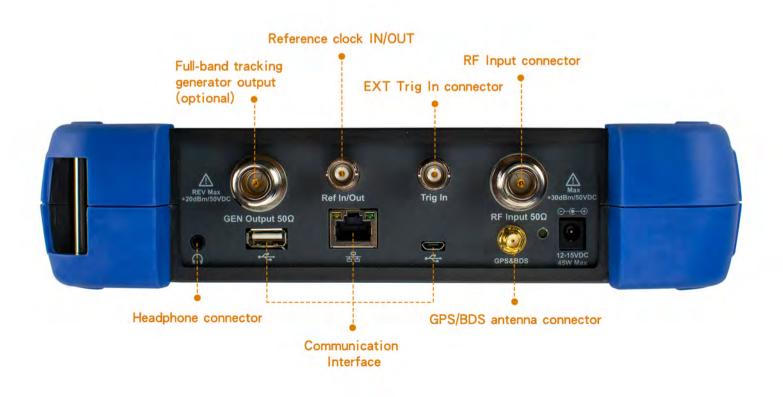
up to

six hours



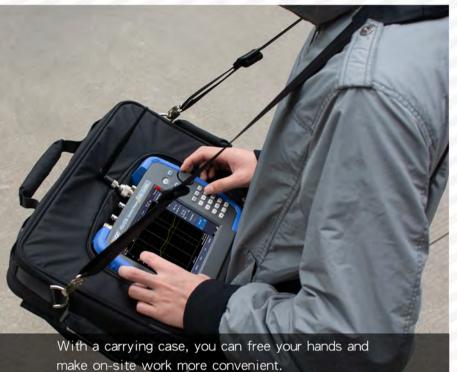
Adjustable handle strap to prevent the instrument from falling off.

2.5 kg (with battery) for easy carrying



More convenient and efficient for field testing

8-inch IPS LCD, wider viewing angle, built-in light sensor to adjust the screen backlight according to the environmental light, provides a superior, bright and clear trace for indoor and outdoor use. There is no need to operate in the shade.





Excellent power management function

Battery operating life up to 4 - 6 hours, you can purchase extra batteries for longer test time, easy battery replacement.





Excellent small signal measurement capability

nowc	Ref: m PA: On	Sweep: Cont	Trigger: (Auto)	Source: 16	2019-12-06		Marker
Log 10 dB/div Ref -50 dBm	Det PosPe Att 0 dB		verage 100		kr1 1.755000 MHz e -163.86 dBm/Hz	Functio	on Off
-60						Nd 3.0	
	1.755000 MHz					On	011
.80 Noise	-163.86 dBm/Hz					Marker	Noise
-90						On	Off
-100						Freq C	ount
-110							
-120	man			1			
-130					Contraction of the second		
-140							
Start 1 MHz RBW 10 kHz		VBW 10	kHz.	Swe	Stop 2 MHz ep Time 15.000 ms	Retu	ım
FREQ	Span	AMPTD	Auto	BW	Marker	2210	

-160 dBm DANL (Displayed Average Noise Level), can observe weaker small signals



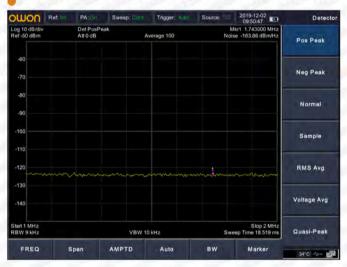
Quickly determine if the test results pass

More accurate low-noise measurements

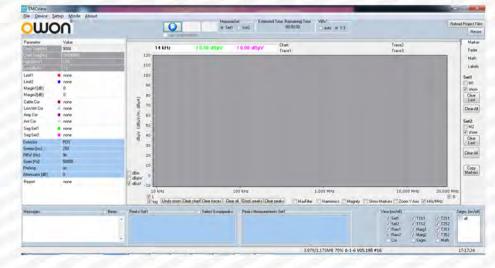


Phase Noise < - 80 dBc/Hz @1GHz at 10 kHz offset

Provides EMI pre-compliance test function



Equipped with EMI filter (6dB) and peak detector as standard, it is more accurate for EMI pre-test and diagnosis, and complete testing and production report can be completed by using supporting software.



Provide EMC test function (requires optional software)

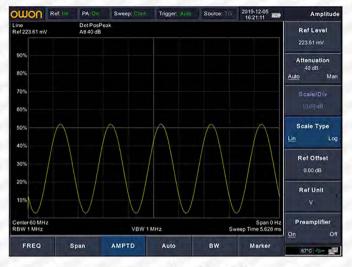
Built-in more than 200 mainstream EMC test standards and regulations templates. The user selects the corresponding template, and the software automatically sets the spectrum analyzer and records the test data. The data and regulations can be compared on the same screen. Users can also customize regulations for comparative analysis.

Pass/Fail function

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Provide multiple extended function modes

Standard modulation signal quality analysis, audio demodulation, field strength measurement, channel measurement and frequency counter, ect. multiple general and extended test functions.



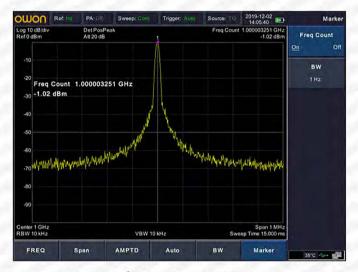
modulation signal quality analysis



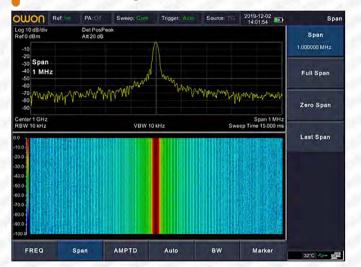
channel measurement



audio demodulation



frequency counter



Waterfall plot graphic

View the behavior of varying signal parameters over time, track the frequency and power behavior over the time, particularly intermittent signals. The user can use waterfall plot graphic to analyze the stability of a signal over the time, or to identify intermittent interference signals in communications systems.

Provide GPS positioning function

Standard GPS antenna connector, optional OWON GPS antenna, the latitude/longitude information and measurement data can be saved as CSV file.

owon	Ref PA:	Swnop: Feet	Trigger:	Source	2019-12-07	Frequency
Log 10 dB/div Ref() dBm	Det Pos Att 20 d		oc (26,0587,119.29 verage 60	3)		Center Freq 1.800009000 GHa
-10 -20						Start Freq 9.000 kHz
-30						Stop Freq 3.600009000 GH2
-50						CF Step 360.000000 MHz Aulo Man
-70						Freq Offset
-80						Freq Ref Int Ext
Center 1.800009 RBW 3 MHz	GHe	ABM 3	MHZ	Sv	Span 3.6 GHz veep Time 48.000 ms	
FREQ	Span	AMPTD	Auto	BW	Marker	

			- 2	3	4	5	8	1.1	\$		1	10	11
1 11	e		Freq (Hz)	Anpt_Truc	Anpl_Trac	Ampt_Tree	Ampt_Trac	Aupt_Tra	r Loc				
2		1	9000	2.32	0	0	0		126.0586				
э		2	6009000	-48,54	0	- Ď	0	0	(26.0598	119.3	299)		
k.		3	12009000	-47.48	0	0	0	0	(26.0538	119.1	299)		
5		4	18009000	-47.68	0	0	0	0	(28.0586	119.1	299)		
ō		5	24009000	-47.85	0	0	0	0	126.0586	119.3	299)		
7 Ə		6	30009000	~47.33	0	D	0	0	(26.0586	119.1	299)		
ē		7	36009000	~46.13	0	0	0	0	026.0586	119.3	299)		
8		8	42009000	-47.44	0	D	0	0	126.0586	119.3	299)		
10		9	48009000	-47.27	0	0	0	0	(26.0586	119.3	299)		
11		10	54009000	~47.52	0	.0	0	0	(26.0588	119.3	2993		
12		11	60009000	-48.3	0	0	0	0	(26.0588	119.3	299)		
13		12	66009000	-48 12	0	0	0	0	(26.0588	119.1	299)		
14		13	72009000	-47.11	0	0	0	0	(26.0586	119.3	299)		
15		14	78009000	-47 55	0	0	0	0	(26.0586	119.3	299)		
16		15	84009000	-48.26	0	0	0	0	(26.0586	119.3	299)		
17		16	90009000	-46 62	0	0	0	0	(26.0588	119 :	299)		
18		17	96009000	-48.97	0	D	0	0	(26.0586	119.3	299)		
19		18	102009000	-47.66	0	0	0	0	(26.0588	119.3	299)		
20		19	108009000	-47.94	0	D	0	0	(26.0586	119.1	299)		
21		20	114009000	-47.13	0	0	0	0	(26 0588	119.3	299)		
22		21	120009000	~46.58	0	0	0	0	(26.0586	119.3	299)		
23		22	126009000	-47.78	0	0	0	0	(26.0588	119.3	299)		
24	1	23	132009000	-46.83	0	D	0	0	(26.0586	119.1	299)		
25		24	138009000	-46 76	0	0	0	0	(26.0586	119.3	299)		
26	1	25	144009000	-46 19	0	0	0	0	(26 0586	119	299)		
27		26	150009000	-48.18	0	D	0	0	(26.0586	119.3	299)		
28		27	156009000	-47.52	0	0	0	0	(26.0588	119.3	299)		
29		28	152009000	-48.05	0	Ð	0	0	128.0588	119.1	299)		
30		29	168009000	-48,83	0	0	0	0	(28 0588	119	299)		
31		30	174009000	-47 63	0	0	0	0	(28.0586	119.3	2993		
32		31	180009000	-47.99	0	0	0	0	(26.0588	119.3	299)		
33		32	186009000	-48 13	0	Ū.	0	0	(26.0586	119.3	299)		

PRODUCT

Model	HSA1016(TG)	HSA1036(TG)					
Frequency Range	9kHz - 1.6 GHz	9kHz - 3.6 GHz					
Frequency Resolution	1Hz						
Aging rate	<1ppm/Year						
Phase Noise (fc=1GHz)	<-80 dBc/Hz @10 kHz offset						
Resolution Bandwidth (-3dB) (RBW)	10 Hz to 500 kHz (1-10 steps	by sequence), 1 MHz, 3 MHz					
Video Bandwidth(-3dB)(VBW)	10Hz to 3MHz						
Display Average Noise Level (DANL)	(Input Attenuation= 0 dB, Sar Impedance=50 Ω, RBW norm	nple Detector, Trace Average ≥20, 20℃ to 30℃, Input alizes to 1Hz)					
1MHz-10MHz	-160dBm (Typical)						
10MHz-1GHz	-160dBm (Typical)						
1GHz-1.6GHz	-158dBm (Typical)						
1GHz-3.6GHz		-158dBm (Typical)					
Detectors	Positive-peak, negative-peak, sample, normal, RMS						
Trace functions	Clear write, Max Hold, Min Hold, View, Blank, Average						
level unit	dBm,dBuW,dBpW,dBmV,dBu\	/, W,V					
Tracking generator (-TG Model)	100 kHz-1.6 GHz	100 kHz-3.6 GHz (Tracking generator) 35 MHz-3.6 GHz (signal generator)					
Output power level range (-TG Model)	-30 dBm-0 dBm						
Output power level resolution (-TG Model)	1dB						
Communication Port	USB HOST, USB DEVICE, LAN, earphone port						
Display	8 inch touch LCD						



Device dimension: (W/H/D 265 x 190 x 58 mm) Product specifications: The net weight is about 2.5kg, the gross weight is about 5.1kg.