



HSA1000 Series

Handheld Spectrum Analyzer

- Frequency range 9 kHz to 1.6GHz/3.6GHz/7.5GHz
- -160 dBm DANL (Displayed Average Noise Level)
- Phase Noise < -106 dBc/Hz @1GHz at 10 kHz offset
- 1Hz Minimum Resolution Bandwidth (RBW)
- Total Amplitude Accuracy <0.7 dB
- Provide EMI pre-compliance test function, optional EMC test software
- Standard Pass/Fail on-site test alert ability
- 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/7.5GHz tracking 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.



Built-in light sensor to adjust the screen backlight according to the environmental light.

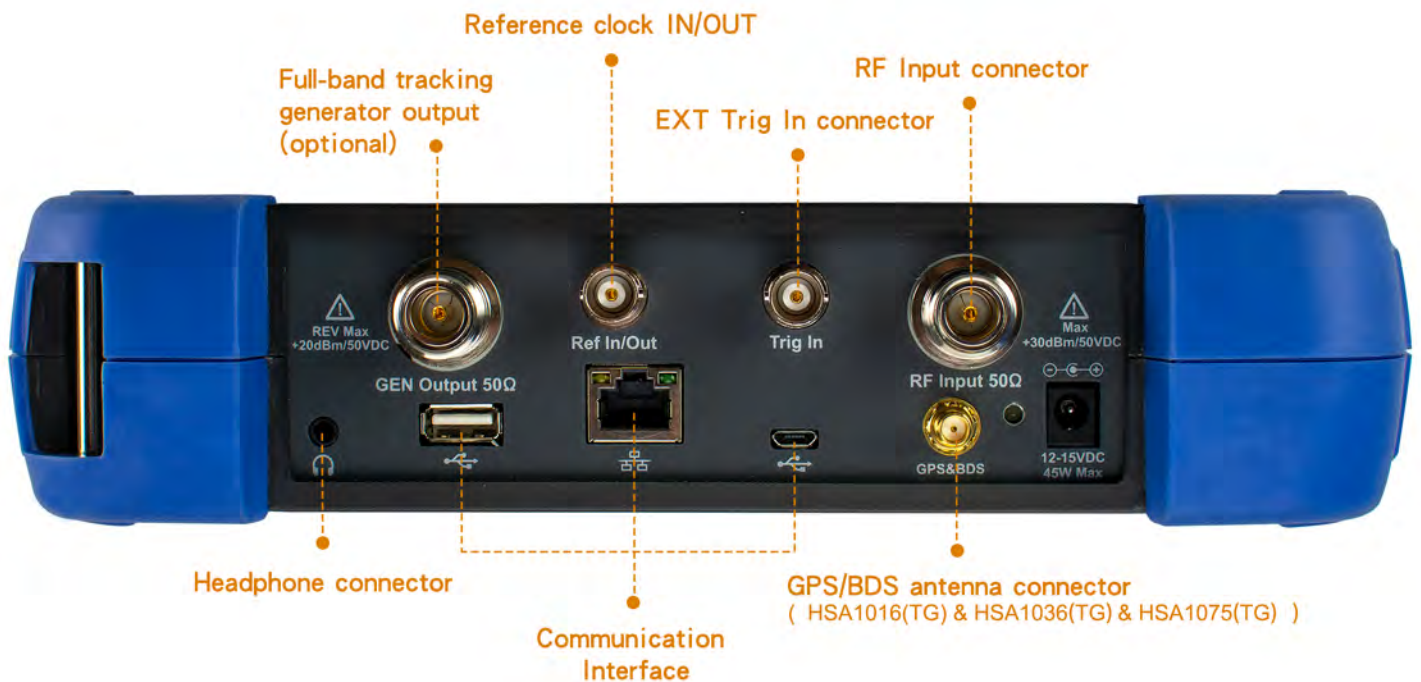
8-inch (1024*768) IPS LCD screen, wider viewing angle, full touch design for more convenient operation

Preset key, resets the analyzer to a known state.

Silicone non-slip to protect the instrument

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.

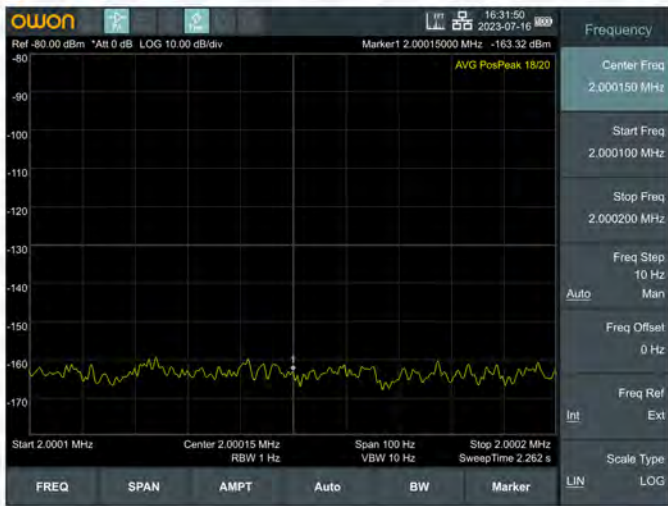


Excellent power management function

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

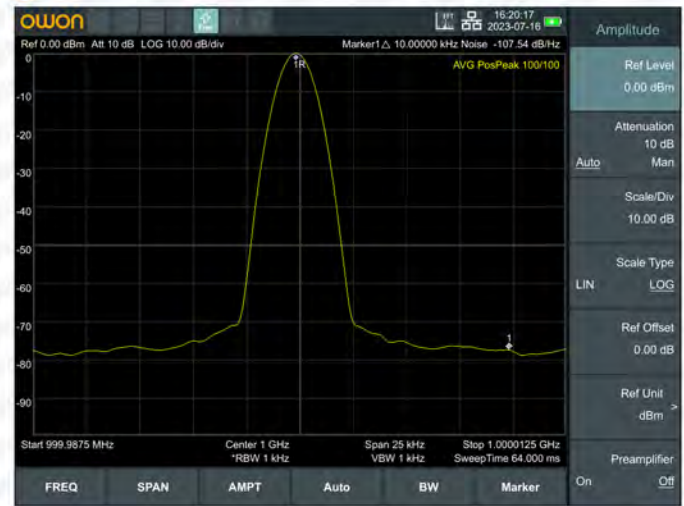


Excellent small signal measurement capability



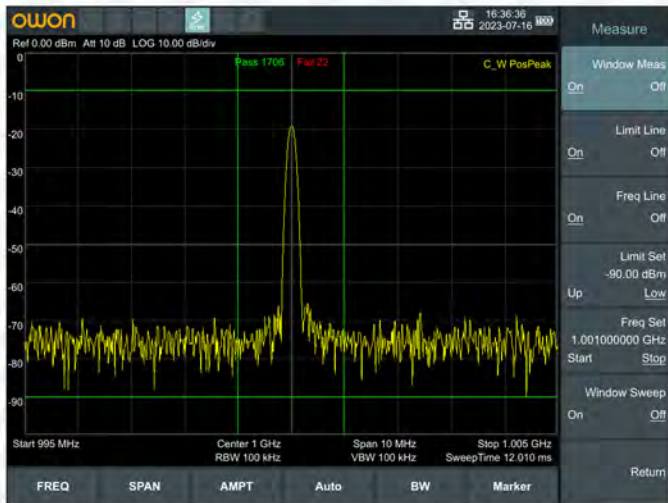
-160 dBm DANL (Displayed Average Noise Level), can observe weaker small signals

More accurate low-noise measurements



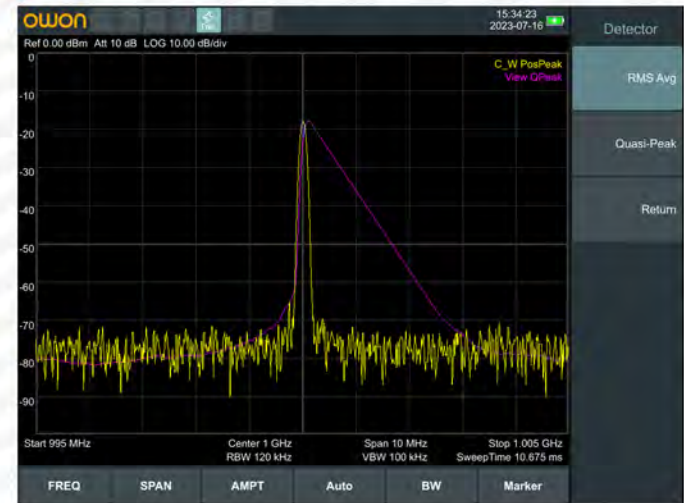
Phase Noise < -80 dBc/Hz @1GHz at 10 kHz offset

Pass/Fail function



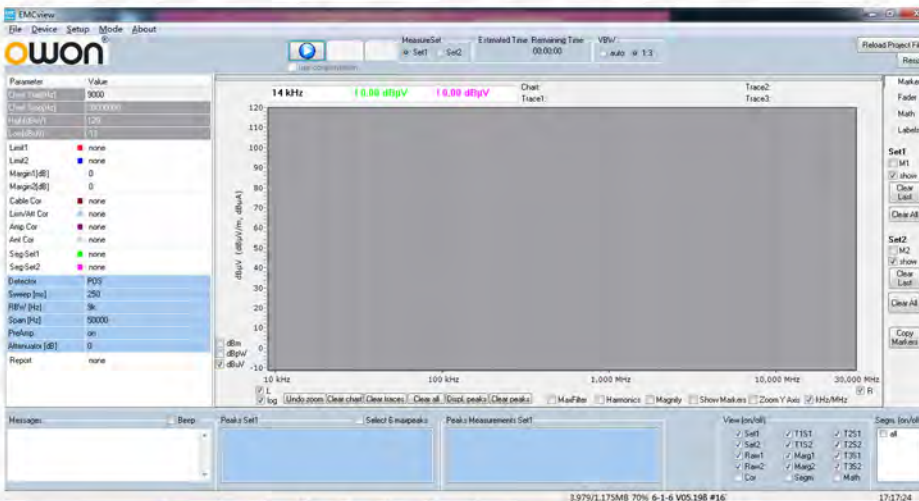
Quickly determine if the test results pass

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.

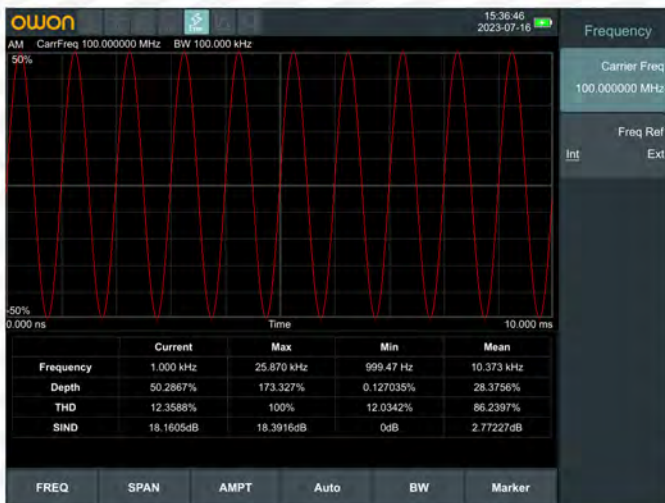
Provide EMC test function (requires optional software)



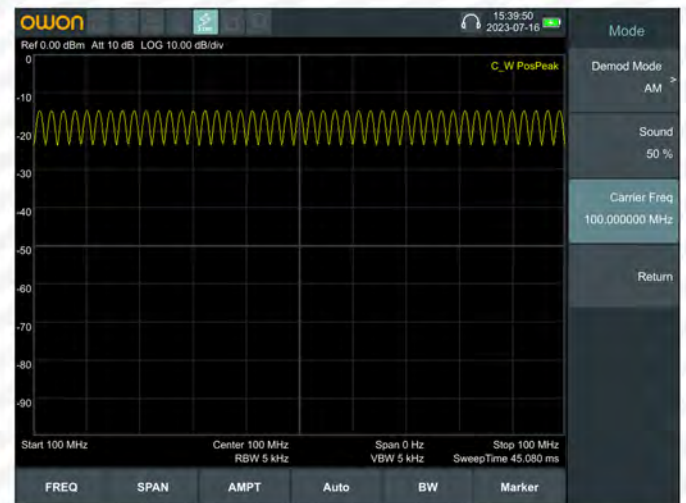
Built-in more than 200 mainstream EMC test standards and regulations templates. The user selects the corresponding template, and the software automatically sets the spectrum analyzer and records the test data. The data and regulations can be compared on the same screen. Users can also customize regulations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

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.



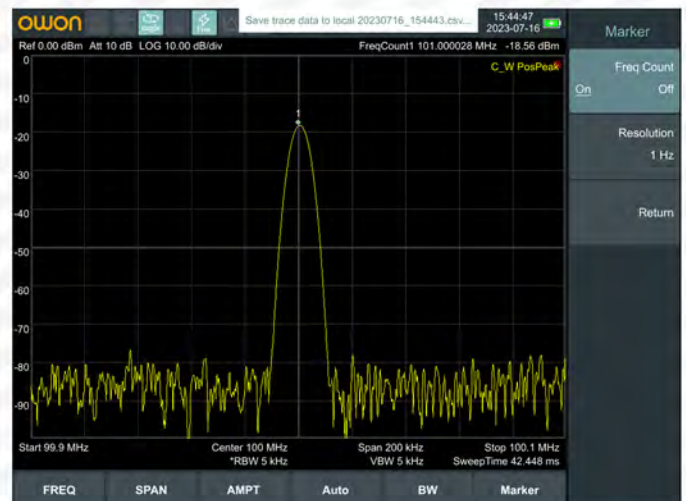
modulation signal quality analysis



audio demodulation

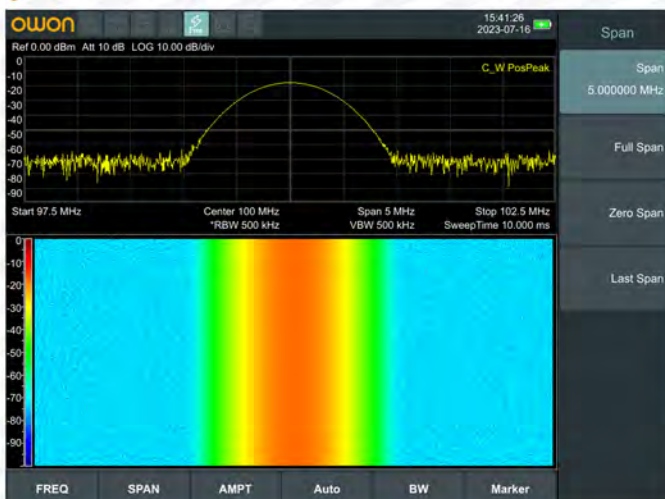


channel measurement



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.



1	2	3	4	5	6	7	8	9	10	11
1	1	9000	2.32	0	0	0	0	0	0	0
2	2	6000000	-48.54	0	0	0	0	0	0	0
3	3	12000000	-47.46	0	0	0	0	0	0	0
4	4	18000000	-47.68	0	0	0	0	0	0	0
5	5	24000000	-47.85	0	0	0	0	0	0	0
6	6	30000000	-47.33	0	0	0	0	0	0	0
7	7	36000000	-46.13	0	0	0	0	0	0	0
8	8	42000000	-47.44	0	0	0	0	0	0	0
9	9	48000000	-47.27	0	0	0	0	0	0	0
10	10	54000000	-47.52	0	0	0	0	0	0	0
11	11	60000000	-48.3	0	0	0	0	0	0	0
12	12	66000000	-48.12	0	0	0	0	0	0	0
13	13	72000000	-47.11	0	0	0	0	0	0	0
14	14	78000000	-47.55	0	0	0	0	0	0	0
15	15	84000000	-48.26	0	0	0	0	0	0	0
16	16	90000000	-46.62	0	0	0	0	0	0	0
17	17	96000000	-46.97	0	0	0	0	0	0	0
18	18	102000000	-47.66	0	0	0	0	0	0	0
19	19	108000000	-47.94	0	0	0	0	0	0	0
20	20	114000000	-47.13	0	0	0	0	0	0	0
21	21	120000000	-46.58	0	0	0	0	0	0	0
22	22	126000000	-47.78	0	0	0	0	0	0	0
23	23	132000000	-46.83	0	0	0	0	0	0	0
24	24	138000000	-46.76	0	0	0	0	0	0	0
25	25	144000000	-46.19	0	0	0	0	0	0	0
26	26	150000000	-46.18	0	0	0	0	0	0	0
27	27	156000000	-47.52	0	0	0	0	0	0	0
28	28	162000000	-48.05	0	0	0	0	0	0	0
29	29	168000000	-48.83	0	0	0	0	0	0	0
30	30	174000000	-47.63	0	0	0	0	0	0	0
31	31	180000000	-47.99	0	0	0	0	0	0	0
32	32	186000000	-48.13	0	0	0	0	0	0	0
33	33	192000000	-48.13	0	0	0	0	0	0	0

PRODUCT SPECIFICATIONS

Model	HSA1016(TG)	HSA1036(TG)	HSA1075(TG)
Frequency Range	9kHz-1.6 GHz	9kHz-3.6 GHz	9kHz-7.5 GHz
Frequency Resolution	1Hz		
Aging rate	<1ppm/Year		
Phase Noise (fc=1GHz)	< -106 dBc/Hz @10 kHz offset		
Resolution Bandwidth (-3dB) (RBW)	1 Hz to 1 MHz (1-10 steps by sequence)		
Video Bandwidth(-3dB)(VBW)	10Hz tp 3MHz		
Display Average Noise Level (DANL)	(Input Attenuation= 0 dB, Sample Detector, Trace Average ≥20, 20°C to 30°C, Input Impedance=50 Ω, RBW normalizes to 1Hz)		
1MHz - 500MHz	-160 dBm (Typical)		
500MHz - 1.5 GHz	-160 dBm (Typical)		
1.5GHz - 3.6GHz	-158 dBm (Typical)	—	—
3.6GHz - 6GHz	—	-158dBm (Typical)	—
6GHz - 7.5GHz	—	—	-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,dBuV, W,V		
Tracking generator (-TG Model)	100 kHz-1.6 GHz	100 kHz-3.6 GHz	100 kHz-7.5 GHz
Output power level range (-TG Model)	-40 dBm-0 dBm		
Output power level resolution (-TG Model)	1dB		
Communication Port	USB HOST, USB DEVICE, LAN, earphone port		
Display	8 inch touch LCD		
Dimension (WxHxD)	265 x 190 x 58(mm)		
Weight	Approx. 2.5 kg (without accessories)		

Specifications subject to change without prior notice.



- | | | | |
|------------------------------|--------------|---------------|--|
| ① Handheld Spectrum Analyzer | ② Metal Case | ③ Quick Guide | ④ CD Rom |
| ⑤ Power Cord | ⑥ Adapter | ⑦ USB Cable | ⑧ Beidou + GPS antenna
(HSA1016(TG) & HSA1036(TG)
& HSA1075(TG)) |

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.