

FAT150

PORTABLE

HANDHELD SPECTRUM ANALYZER

Frequency range 9KHz-6GHz

Widely suitable for testing various standards such as 2G/3G/4G/5G













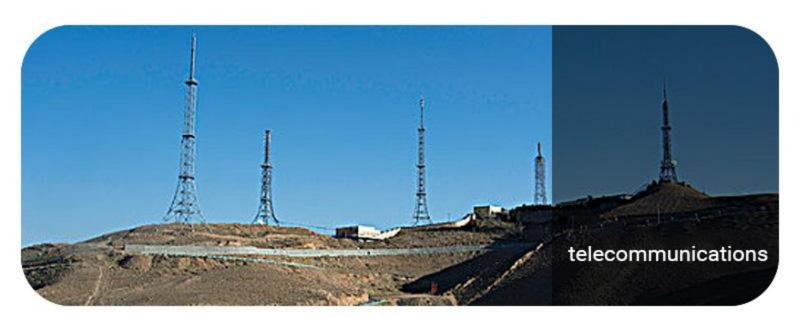
Equipment interference

Shielding test

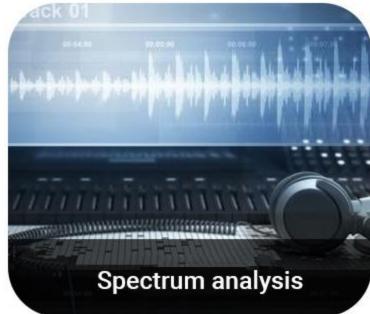
Electromagnetic environment detection

signal detection

Meet multiple different scenarios









- All digital intermediate frequency technology
- Working frequency: 9KHz-6GHz
- Oisplay average noise level DANL up to -165dBm/Hz
- Power dynamic range up to 100dB, testing power up to 27dbm
- Typical value of SSB phase noise -90dBC/ Hz@10kHz deviation
- Resolution bandwidth as low as (RBW) 1Hz
- RF attenuation range 0-55dB, 5dB step by step
- Supports adjacent channel power, passband power transmission bandwidth, occupied bandwidth,
- Multiple tests such as CI
- Zero bandwidth testing supports multiple demodulation methods such as AM, FM, FFT, IQ, etc

Standard test High reception sensitivity

All digital intermediate frequency technology



FAT150 spectrum analyzer has a frequency range of 9KH2-6GHZ, which is widely applicable to 2G/3G/4G/5G and other system tests. FAT50 has high reception sensitivity performance, with a typical average noise level of up to -165DBM/HZ. The dynamic range of power measurement is up to 100DB, and the RF input power exceeds 27DBM. The FAT150 adopts a 7-inch capacitive touch screen design, with a resolution of up to 1024 * 600, providing excellent user experience.

Handheld

7-inch touch screen Up to 4.5 hours of battery life

Supports normal/black and white/night vision/highlighting

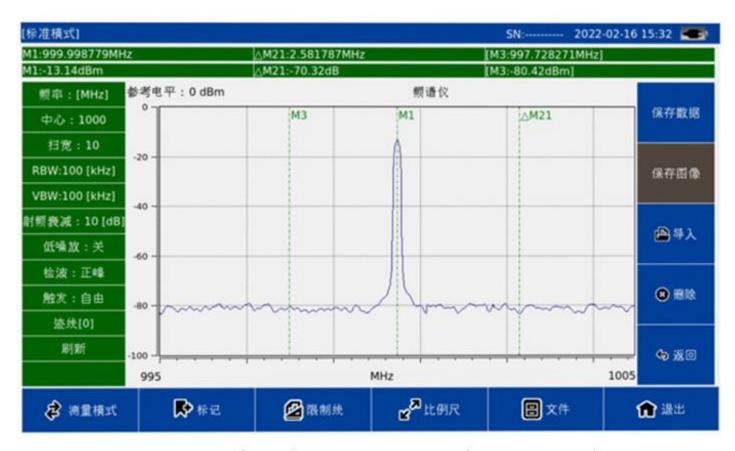


Input output mode

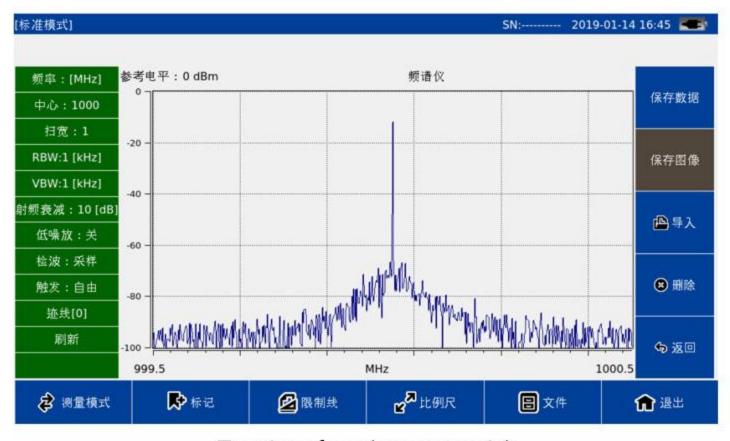
Suitable for various interface devices



Function menu Spectrum testing interface



Test interface (adjacent channel power ratio)



Test interface (sweep mode)

Product parameters

		v.			
Technical indicators					
Measurement mode					
Sweep mode	Normal frequency sweep, adjacent channel power ratio channel power, OBW/EBW, carrier to noise ratio				
Zero frequency mode	AM,FM,FFT,IQ demodulate				
Frequency					
Frequency range	9 kHz to 6GHz				
Counter resolution	1 Hz				
Frequency range	Zero broadband 100 Hz ~6GHz				
Frequency resolution	1 Hz				
Frequency reference so	urce				
Reference frequency		100 MHz			
Initial accuracy (15 ° C to 35 ° C)	<±1 ppm				
Temperature stability	<±0.5 ppm				
Aging rate	<1.5 ppm/ Year				
SSB phase noise @ 1GF	łz				
10 kHz carrier offset	<-90 dBc/Hz Typical value				
100 kHz carrier offset	<-100 dBc/Hz Typical value				
1MHz carrier offset	<-115 dBc/Hz Typical value				
Bandwidth					
Resolution bandwidth RBW (-3 dB)		1 Hz to 3 MHz, Step by step 1-3-10			
Filter form factor (60 dB: 3 dB)		<5			
Video bandwidth VBW (-3 dB)		B) 1 Hz to 3 MHz, Step by step 1-3-10			
Range					
Measuring range	Display average noise level (DANL) to+27dBm				
Testing accuracy	±1.5dB				
Reference level range	-160dBm~+40dBm				
Attenuator range	0dB~55dB,5dB Stepping				
Amplitude unit	dBm/dBv/dBmV/dBuV/V/mV/uV/W/mW/uW/nW/pW				
Withstand DC voltage	50 V				
Damage level	Pulse sig Note: RF	Continuous signal +28 dBm (50MHz~6GHz) Pulse signal +31 dBm (50MHz~6GHz) Note: RF attenuation is 30dB Continuous signal +28 dBm (50MHz~6GHz)			
	+10 dBm (9kHz~50MHz)				

Display average noise I	Display average noise level (DANL)				
	than -40dBm, the RF attnuation to 1Hz, 20°C to 30°C,and the in				
	9 kHz to 10MHz	<-143 dBm (Typical value)			
	10MHz to 1GHz	<-157 dBm (Typical value)			
Pre amplifier off	1 GHz to 2 GHz	<-156 dBm (Typical value)			
	2GHz to 3 GHz	<-152 dBm (Typical value)			
	3 GHz to 4 GHz <-152 dBm (Typical val				
ē	4 GHz to 5 GHz	<-146 dBm (Typical value)			
	5 GHz to 6 GHz	<-145 dBm (Typical value)			
Pre amplifier on	9 kHz to 10MHz	<-147 dBm (Typical value)			
	10MHz to 1GHz	<-165 dBm (Typical value)			
	1 GHz to 2 GHz	<-165 dBm (Typical value)			
	2GHz to 3 GHz	<-163 dBm (Typical value)			
	3 GHz to 4 GHz	<-164 dBm (Typical value)			
	4 GHz to 5 GHz	<-159 dBm (Typical value)			
	5 GHz to 6 GHz	<-155dBm (Typical value)			
Display function					
Display level					
Number of display cells	1,2,3,5,10,15,20dB				
Display points					
Normal bandwidth	551 (Typical value)				
Zero bandwidth	1024				
Trajectory	T				
Trajectory number	4				
Trajectory function	Hold, video average power average freeze refresh				
Display method	Display only data, only memory, data and memory data plus/minus memory data to memory				
RF input VSWR					
Test conditions: (RF attenuation ≥ 10dB)					
VSWR	300 kHz to 3 GHz	<2 (Nominal value)			
VSVIK	3 GHz to 6 GHz	<2 (Nominal value)			
Nonlinear indicators					
Second harmonic distortion	Test conditions: RF attenua	Test conditions: RF attenuation of 10dB, -30dBm input			
10MHz~1.5GHz	<-60dBc				
1.5GHz-3GHz	Not have				
Third order intermodulation	Test conditions: RF attenuation of 10dB, -20dBm input, frequency interval of 1MHz				
30~3000MHz	+12dBm				
3000~6000MHz	+10dBm				
Spurious response					

Residual spurious	<-90dBm, RF attenuation is 0dB				
Input related spurious	<-80dbc Test conditions: RF attenuation is 0db, -20dBm input				
Intermediate frequency feedthrough	<-55dBc; Intermediate frequency=125MHz,				
image rejection	<-60dbc @ F1±250MHz (F1: Input signal frequency)				
Scanning					
Scan time	Sweep width ≥ 100Hz 1ms to 2000s				
Souli time	Zero sweep width 80 μ s to 300s				
Scan mode	Continuous, single occurrence				
Interface					
RF signal input	impedance	50 Ω			
	connector	N-shaped female head			
Reference source					
Internal reference source	Frequency 100MHz, ± 1ppm				
External reference source input	Frequency	100 MHz			
	input level	0 dBm to +10 dBm			
	impedance	50 Ω			
	connector	SMA (negative)			
Communication interface	,	•			
USB interface 1	connector	Туре А			
USB interface 2	connector	Туре В			
Ethernet port	connector	10/100M, RJ-45			
The power adapter					
Input voltage range	100 V to 240 V AC, 50~60Hz				
Output voltage range	16 V DC/3.75A				

Product display





