3916 Series EMI Test Receiver (2Hz~50GHz)



Product Description

The 3916 series EMI test receiver is a certified high-performance receiver meeting series domestic and international EMC standards such as GB/T 6113, GJB151 and CISPR. It features excellent sensitivity, high accuracy, large dynamic range, top speed, etc, which supports various functions such as EMI standard compliance test, fast FFT time-domain test, EMI test diagnosis, full-featured spectrum analysis, etc., and can be applied in the field of pre-detection test and compliance test for the EMC standards, and used as a general-purposehigh-performance full-featured spectrum analyzerin the field of MW/MMW signal test.

Main Characteristics

- EMC standard compliance test
- Conventional step sweep test and fast FFT time-domain test supported
- EMI test diagnostics
- High-performance and full-featured spectrum analysis
- Multiple EMC standards met and user entries supported
- Built-in low-noise amplifier and full-band preselector
- Signal reception with excellent sensitivity, high accuracy, low phase noise and wide frequency range
- Reception channel with surge protection provided
- Compatible with multi-manufacturer EMC system software and test systems

EMC Standard Compliance Test

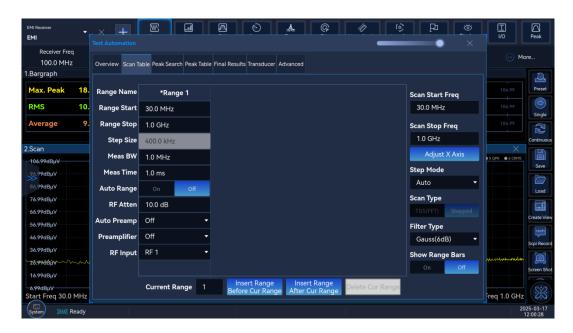
- Typical EMI test interface
- CISPR-compliant FFT time-domain test and detector
- Built-in low-noise amplifier and full-band preselector
- Up to seven detection modes supported for simultaneous test
- Automatic discrimination of compliance test results
- Built-in standard limit line, and capable of standard limit line editing, transmission factor editing, sweep list editing, etc.



Typical EMI test interface



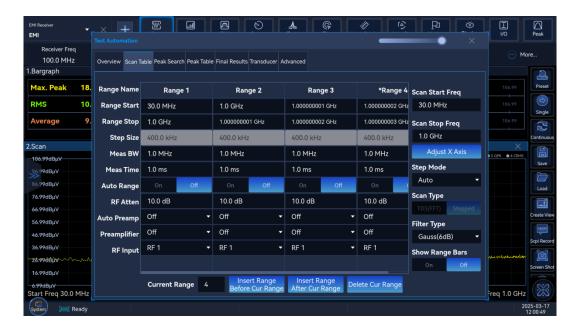
Multiple detection modes



Convenient and fast list editing

Fast FFT Time-domain Test

- FFT of up to 32768 points, parallel filtering and detection.
- 50~10,000 channels in one FFT step detection, with speed increased by 30~6250 times.
- Overlap rate of over 93.75% for FFT processing, with amplitude error of less than 0.4dB.



Quick setting for sweep type switching

EMI Test Diagnostics

- Automatic search for peak exceeding the limit
- Capable of setting the limit line margin to change the selection conditions of signals in the list.
- Automatic test of a series of frequency points with multiple detection modes.



Automatic search for peak exceeding the limit

Full-featured Spectrum Analysis

- Typical spectrum analysis interface
- Channel power measurement
- Occupied bandwidth measurement
- Adjacent channel power measurement



Abundant spectrum analysis functions

High Performance

- High frequency band covered to fully support the frequency test on excellent bands Ku and Ka of the LEO satellite.
- High efficiency, with pre-sweep + fixed-point final sweep of list based on fast FFT time-domain test to quickly locate the interference band.
- Typical display of average noise level of up to -163dBm (with amplifier ON)
- Typical TOI of +25dBm
- Typical phase noise of -135dBc/Hz at carrier of 1GHz and frequency offset of 10kHz
- Auto-calibration technology for high stability and accuracy of signal level measurement

Multiple Solutions

Integrated solution to support EMC standard compliance test system

MW/MMW Measuring Instrument

3916B/D/E/F/H Series EMI Test Receiver

- Integrated solution to support PCB-level visualization interference diagnosis test system
- Solution to support chip-level EMC test based on TEM chambers

Sufficient Ports

- Two RF signal input ports, with RF input 2 for surge protection.
- Local oscillator output port and IF input port provided to expand the frequency test range
- Various general-purpose ports provided, such as USB, LAN, GPIB, DP, etc.

Technical Specification

	Input port 1:		
	Model	DC coupling	AC coupling
	3916B	2Hz~8.4GHz	10MHz~8.4GHz
	3916D	2Hz~18GHz	10MHz~18GHz
Frequency range	3916E	10MHz~26.5GHz	
	3916F	2Hz~45GHz	10MHz~45GHz
	3916Н	2Hz~50GHz	10MHz~50GHz
		Input port 2:	
	2Hz-1GHz (DC couplin	g)	
	9kHz-1GHz (AC coupli	ng)	
10MHz	Frequency accuracy:	+(to last calibration	on date × aging rate +
	temperature stabilit		
Precision	_	0 ⁻⁸ /year	1
frequency	Temperature stabilit	-	
reference	Calibration accuracy		
Frequency			
resolution	0. 1Hz		
Number of			
preselected	23 sections (with notch filter)		
channels	20 Sections (with noten 111	tel)	
Frequency			
reading			0.1% bandwidth + 5% resolution
	bandwidth + 2Hz + 0.5 horiz		
Accuracy	*: Horizontal resolution =	Span / (Number of sweep po	ints - 1)
Marker counter	Accuracy: ± (Marker frequen	cy x Frequency reference a	ccuracy + 0.100 Hz)
	Counter resolution: 0.001Hz		
Dwell time	50μs-100s		
	Range: Span≥ 10Hz 3 µ s^	~16000s	
sweep time	Span=0Hz: 1 μ s~16000s		
	Accuracy: Span = OHz: ±0.01%		
Maximum sweep			
list			
	20		
Number of			
partitions			
Detector type	Maximum Peak, Minimum Peak,	RMS, Quasi-Peak, Average,	CISPR Average, and CISPR RMS

Dhaga			
Phase noise	<-107dBc/Hz Frequency offset 100Hz		
(carrier 1GHz,	<-125dBc/Hz Frequency offset 1kHz		
20℃~ 30℃)	<-133dBc/Hz Frequency offset 10kHz		
	<-135dBc/Hz Frequency offset 100kHz		
	\leqslant 0.25 Hz x N (10 Hz resolution bandwidth, 10 Hz video bandwidth, and rated value within		
	20 ms; for the specific value of N, refer to the number of harmonics in section "Band		
	Division.")		
Residual FM	Frequency range N value		
Residual FM	$2Hz < f \leq 8.2GHz$ 1;		
	8. $2GHz < f \le 18GHz$ 1;		
	18GHz <f≤26.5ghz 2;<="" th=""></f≤26.5ghz>		
	26. 5GHz < f ≤ 40GHz 2;		
	40GHz <f≤50ghz 4;<="" th=""></f≤50ghz>		
EMI filter	Range: 1Hz, 10Hz, 100Hz, 200Hz, 1kHz, 9kHz, 10kHz, 100kHz, 120kHz, 1MHz, 10MHz		
(-6dB bandwidth)	Accuracy: ≤ 5%		
(odb bandwidth)	Selectivity (-60 dB/-6 dB): \leq 4.5:1		
Standard filter	Range: 1Hz-3MHz (1, 2, 3 and 5 steps), 4, 5, 6, 8 and 10MHz		
(bandwidth of	Accuracy (3.01dB): $\pm 3\%$ (1Hz \leq RBW \leq 1MHz)		
-3dB)	$\pm 15\%$ (1MHz <rbw<math>\leq10MHz)</rbw<math>		
,	Selectivity (-60 dB/-3 dB): <5.0:1		
VBW	1Hz - 20MHz (in steps of 1, 2, 3, and 5) (rated value)		
Compression			
point of 1dB			
(two-tone test,			
priority for			
RF-gain dynamic			
_	Preselector OFF, preselector amplifier OFF, low-noise amplifier OFF:		
range, and	≥5dBm 20MHz≤f<3.25GHz		
frequency	≥7dBm 3.25GHz≤f ≤50GHz		
interval greater			
than 5 times			
pre-filtering			
bandwidth)			
Third-order			
intermodulation	Proceductor OFF proceductor or lifter OFF law raise and lifter OFF.		
distortion	Preselector OFF, preselector amplifier OFF, low-noise amplifier OFF:		
015 CO1 C1011	≥15dBm 10MHz ≤ f ≤ 100MHz		
Interception	≥18dBm 100MHz < f ≤ 3. 25GHz ≥20dBm 3. 25GHz < f ≤ 8. 2GHz		
point	> 250dBm		
	2 TOUDIN 0. 20112 \1 \000112		
(RF gain dynamic			

range priority)		
Second harmonic	Preselector OFF preselector amplifier OF	FE low-noise amplifier OFF.
distortion	Preselector OFF, preselector amplifier OFF, low-noise amplifier OFF: ≥45dBm 10MHz≤f≤4.1GHz	
	≥60dBm 4.1GHz < f ≤ 13.25GHz	
Interception	≥55dBm 13. 25GHz < f ≤ 20GHz	
point	≥45dBm 20GHz < f ≤ 25GHz	
	(Without low-noise preamplifier option 3916-H34-XX): preselector OFF, preamplifier OFF	
	Frequency range	Indicator
	10MHz≤ f<100MHz	≤-148dBm
	100MHz≤f<1.2GHz	≤-147dBm
	1. 2GHz≤f<2. 2GHz	≤-146dBm
	2. 2GHz≤f<3. 25GHz	≤-145dBm
	3. 25GHz≤f<5. 25GHz	≤-143dBm
	5. 25GHz≤f<6. 5GHz	≤-144dBm
	6. 5GHz≤f<8. 2GHz	≤-138dBm
	8.2GHz≤f<18GHz	≤-141dBm
Display average	18GHz≤f<26.5GHz	≤-141dBm
noise	26. 5GHz≤f<40GHz	≤-137dBm
level(Input port	40GHz≤f≤50GHz ≤-132dBm	
connected to 50	(Without low-noise preamplifier option 39	16-H34-XX): Preselector ON, preamplifier OFF
Ω load, with	Frequency range Indicator	
input	10MHz≤ f<100MHz	≤-150dBm
		<-153dBm
	100MHz≤f<1.2GHz	
attenuation of	100MHz≤f<1.2GHz 1.2GHz≤f<2.2GHz	< 153dBm < 153dBm
attenuation of 0dB, and		
attenuation of	1.2GHz≤f<2.2GHz	≤-153dBm
attenuation of 0dB, and	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz	<-153dBm <-152dBm
attenuation of 0dB, and temperature	1. 2GHz≤f<2. 2GHz 2. 2GHz≤f<3. 25GHz 3. 25GHz≤f<5. 25GHz	<pre><-153dBm <=-152dBm <=-153dBm</pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C,	1. 2GHz≤f<2. 2GHz 2. 2GHz≤f<3. 25GHz 3. 25GHz≤f<5. 25GHz 5. 25GHz≤f<6. 5GHz	<pre><-153dBm <=-152dBm <=-153dBm <=-153dBm</pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz	<pre><-153dBm <=-152dBm <=-153dBm <=-153dBm <=-151dBm</pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C,	1. 2GHz≤f<2. 2GHz 2. 2GHz≤f<3. 25GHz 3. 25GHz≤f<5. 25GHz 5. 25GHz≤f<6. 5GHz 6. 5GHz≤f<8. 2GHz 8. 2GHz≤f<18GHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz≤f<2. 2GHz 2. 2GHz≤f<3. 25GHz 3. 25GHz≤f<5. 25GHz 5. 25GHz≤f<6. 5GHz 6. 5GHz≤f<8. 2GHz 8. 2GHz≤f<18GHz 18GHz≤f<26. 5GHz 26. 5GHz≤f<40GHz	
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz (Without low-noise preamplifier option 39 amplifier ON Frequency range	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz (Without low-noise preamplifier option 36 amplifier ON Frequency range 10MHz ≤ f < 100MHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz (Without low-noise preamplifier option 39 amplifier ON Frequency range 10MHz ≤ f < 100MHz 100MHz ≤ f < 1. 2GHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz (Without low-noise preamplifier option 30 amplifier ON Frequency range 10MHz ≤ f < 100MHz 100MHz ≤ f < 1. 2GHz 1. 2GHz ≤ f < 2. 2GHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz (Without low-noise preamplifier option 39 amplifier 0N Frequency range 10MHz ≤ f < 100MHz 1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz	<pre></pre>
attenuation of 0dB, and temperature range of +20 ~ +30° C, normalized to	1. 2GHz ≤ f < 2. 2GHz 2. 2GHz ≤ f < 3. 25GHz 3. 25GHz ≤ f < 5. 25GHz 5. 25GHz ≤ f < 6. 5GHz 6. 5GHz ≤ f < 8. 2GHz 8. 2GHz ≤ f < 18GHz 18GHz ≤ f < 26. 5GHz 26. 5GHz ≤ f < 40GHz 40GHz ≤ f ≤ 50GHz (Without low-noise preamplifier option 30 amplifier ON Frequency range 10MHz ≤ f < 100MHz 100MHz ≤ f < 1. 2GHz 1. 2GHz ≤ f < 2. 2GHz	<pre></pre>

6.5GHz≤f<8.2GHz	≤-151dBm
8.2GHz≤f<18GHz	≤-141dBm
18GHz≤f<26.5GHz	≤-141dBm
26. 5GHz≤f<40GHz	≤-137dBm
40GHz≤f≤50GHz	≤-132dBm

(With low-noise preamplifier option 3916-H34-XX): preselector OFF, preselector amplifier OFF, low-noise amplifier OFF

Frequency range	Indicator	
10MHz≤ f<100MHz	<-145dBm	
100MHz≤f<1.2GHz	<-146dBm	
1.2GHz≤f<2.2GHz	<-145dBm	
2.2GHz≤f<3.25GHz	<-144dBm	
3.25GHz≤f<5.25GHz	<-142dBm	
5.25GHz≤f<6.5GHz	≪-142dBm	
6.5GHz≤f<8.2GHz	≤-137dBm	
8.2GHz≤f<18GHz	<-140dBm	
18GHz≤f<26. 5GHz	≤-140dBm	
26. 5GHz≤f<40GHz	≤-136dBm	
40GHz≤f≤50GHz	<-131dBm	

(With low-noise preamplifier option 3916-H34-XX): preselector ON, preamplifier OFF, low-noise preamplifier OFF

Frequency range	Indicator
10MHz≤ f<100MHz	≤-149dBm
100MHz≤f<1.2GHz	≤-152dBm
1. 2GHz≤f<2. 2GHz	≤-152dBm
2. 2GHz≤f<3. 25GHz	≤-151dBm
3.25GHz≤f<5.25GHz	≤-152dBm
5. 25GHz≤f<6. 5GHz	<-152dBm
6.5GHz≤f<8.2GHz	≤-150dBm
8.2GHz≤f<18GHz	≤-140dBm
18GHz≤f<26.5GHz	≤-140dBm
26. 5GHz≤f<40GHz	≤-136dBm
40GHz≤f≤50GHz	≤-131dBm

(With low-noise preamplifier option 3916-H34-XX): preselector ON, preamplifier ON, low-noise amplifier OFF

Frequency range	Indicator
10MHz≤ f<100MHz	≤-150dBm
100MHz≤f<1.2GHz	≤-154dBm
1. 2GHz≤f<2. 2GHz	≤-154dBm
2. 2GHz≤f<3. 25GHz	≤-153dBm
3. 25GHz≤f<5. 25GHz	≤-152dBm
5. 25GHz≤f<6. 5GHz	≤-152dBm
6.5GHz≤f<8.2GHz	≤-150dBm

	8. 2GHz≤f<18GHz	≤-140dBm
	18GHz≤f<26.5GHz	≤-140dBm
	26.5GHz≤f<40GHz	≤-136dBm
	40GHz≤f≤50GHz	≤-131dBm
	With low-noise preamplifier option 3916-H34-XX): preselector OFF, preamplifier OFF,
	low-noise amplifier ON	, , , , , , , , , , , , , , , , , , , ,
	Frequency range	Indicator
	10MHz≤ f<100MHz	≤-155dBm
	100MHz≤f<1.2GHz	≤-160dBm
	1. 2GHz≤f<2. 2GHz	≤-159dBm
	2. 2GHz≤f<3. 25GHz	≤-159dBm
	3. 25GHz≤f<5. 25GHz	≤-158dBm
	5. 25GHz≤f<6. 5GHz	≤-156dBm
	6.5GHz≤f<8.2GHz	≤-156dBm
	8. 2GHz≤f<18GHz	≤-156dBm
	18GHz≤f<26. 5GHz	≤-154dBm
	26.5GHz≤f<40GHz	≤-153dBm
	40GHz≤f≤50GHz	≪-148dBm
	(With low-noise preamplifier option 3916-H34-X)	(): preselector ON, preamplifier OFF,
	low-noise amplifier ON	
	Frequency range	Indicator
	10MHz≤ f<100MHz	≤-156dBm
	100MHz≤f<1.2GHz	≤-157dBm
	1. 2GHz≤f<2. 2GHz	≤-157dBm
	2. 2GHz≤f<3. 25GHz	≤-157dBm
	3. 25GHz≤f<5. 25GHz	≤-157dBm
	5. 25GHz≤f<6. 5GHz	<-157dBm
	6. 5GHz≤f<8. 2GHz	≤-156dBm
	8. 2GHz≤f<18GHz	<-155dBm
	18GHz≤f<26. 5GHz	<-155dBm
	26. 5GHz≤f<40GHz	<-152dBm
	40GHz≤f≤50GHz	<-148dBm
Residual		
response	≤-90dBm f ≤1MHz	
	≤-103dBm 1MHz <f th="" ≤8.4ghz<=""><th></th></f>	
(attenuator=0dB)		
Absolute		
amplitude		
Uncertainty	≤0. 2dB	
(Internal		
calibration		

signal frequency			
point 500MHz,			
+20∼+30℃)			
.20 .30 0,			
	(Without low-noise preamplifier option 3916-H34-	XX): preselecto	or OFF, preamplifier OFF
	Frequency range	Indicator	
	2Hz≤f<9kHz	±1.0dB	
	9kHz≤f<10MHz	±0.7dB	
	10MHz≤f<3.6GHz	±0.5dB	
	3.6GHz≤f<8GHz	±0.7dB	
	8GHz≤f<22GHz	±1.5dB	
	22GHz≤f≤50GHz	±2.0dB	
	(Without low-noise preamplifier option 3916-H34	-XX): Preselect	or ON, preamplifier OFF
	Frequency range	Indicator	
	2Hz≤f<9kHz	±1.3dB	
	9kHz≤f<10MHz	±1.0dB	
	10MHz≤f<3.6GHz	±0.8dB	
Frequency	3.6GHz≤f<8GHz	±1.1dB	
response	8GHz≤f<22GHz	±1.5dB	
20020	22GHz≤f≤50GHz	±2.0dB	
(Attenuation of	(Without low-noise preamplifier option 3916-H34	1-XX): preselec	tor ON, preselector
10dB,	amplifier ON		_
0	Frequency range	Indicator	
(20° C to 30° C,	2Hz≤f<9kHz	±1.7dB	
relative to	9kHz≤f<10MHz	±1.4dB	
calibration	10MHz≤f<3.6GHz	±1.2dB	
frequency of	3.6GHz≤f<8GHz	±1.6dB	
500MHz, DC	8GHz≤f<22GHz	±2.0dB	
coupling)	22GHz≤f≤50GHz	±2.8dB	
, .	(With low-noise preamplifier option 3916-H34-X	(): preselector	OFF, preselector
	amplifier OFF, low-noise amplifier OFF		
	Frequency range	Indicator	
	2Hz≤f<9kHz	±1.1dB	
	9kHz≤f<10MHz	±0.8dB	
	10MHz≤f<3.6GHz	±0.6dB	
	3.6GHz≤f<8GHz	±0.8dB	
	8GHz≤f<22GHz	±1.6dB	
	22GHz≤f≤50GHz	±2.1dB	
	(With low-noise preamplifier option 3916-H34-X	(): preselector	ON, preamplifier OFF,
	low-noise preamplifier OFF		_
	Frequency range	Indicator	
	2Hz≤f<9kHz	±1.4dB	
	9kHz≤f<10MHz	±1.1dB	

	10MHz≤f<3.6GHz	±0.9dB	
	3. 6GHz≤f<8GHz	±1.2dB	
	3. 00Hz ≤1 < 00Hz 8GHz ≤ f < 22GHz	±1.6dB	
	22GHz≤f≤50GHz	±2.1dB	
			ON proceedition ON
	(With low-noise preamplifier option 3916-H34-XX): preselector ON, preamplifier ON,		on, preampiliter on,
	low-noise amplifier OFF	Indicator	
	Frequency range 2Hz≤f<9kHz		
		±1.8dB	
	9kHz < f < 10MHz	±1.5dB	
	10MHz≤f<3.6GHz	±1.3dB	
	3. 6GHz≤f<8GHz	±1.7dB	
	8GHz ≤ f < 22GHz	±1.6dB	
	22GHz≤f≤50GHz	±2.1dB	
	(With low-noise preamplifier option 3916-H34-XX)): preselector	OFF, preamplifier OFF,
	low-noise amplifier ON]
	Frequency range	Indicator	
	10MHz≤f<3.6GHz	±1.0dB	
	3.6GHz≤f<8GHz	±1.3dB	
	8GHz≤f<22GHz	±2.0dB	
	22GHz≤f≤50GHz	±2.8dB	
	(With low-noise preamplifier option 3916-H34-XX): preselector	ON, preamplifier OFF,
	low-noise amplifier ON		1
	Frequency range	Indicator	
	10MHz≤f<3.6GHz	±1.3dB	
	3.6GHz≤f<8GHz	±1.7dB	
	8GHz≤f<22GHz	±2.0dB	
	22GHz≤f≤50GHz	±2.8dB	
Mirror			
suppression	≥80dBc		
Maximum-input			
continuous wave			
signal level			
(Preselector			
	+30dBm		
OFF,			
preamplifier			
OFF, attenuator			
≥ 20dB)			
Input voltage	Frequency range	Indicator	
standing wave	9kHz≤f≤1GHz	≤ 1.2	
ratio			

(Attenuator ≥	1GHz <f≤8ghz< th=""><th>≤ 1.5</th><th></th></f≤8ghz<>	≤ 1.5	
10dB, DC	8GHz <f≤45ghz< th=""><th>≤ 1.8</th><th></th></f≤45ghz<>	≤ 1.8	
coupling, port 1)	00112 11 100112	1.0	
	45GHz < f ≤ 50GHz	≤ 2.0	
Input attenuator			
range	0-70dB, 2dB step		
	Port 1:		
	3916B/D EMI test receiver: N-type female connector, 50Ω		
RF interface	3916E EMI test receiver: 3.5mm male connector, 50Ω		
	3916F/H EMI test receiver: 2.4mm male connector	, 50 Ω	
	Port 2:		
	N-type female connector, 50Ω		
	USB interface: A-type, 3 on the front panel and	3 on the rear pa	nnel
Communication	LAN interface:RJ45,10/100/1000M adaptive		
interface	GPIB interface: IEEE-488 bus connector, 24-way plug (GP-IB code: SH1, AH1, T6, L4, SR1,		
	RL1, PPO, DC1, or CO), used for remote control		
Audio Interface	Earphone interface: standard 3.5 mm.		
	Video interface: DP interface		
Time base	1MHz-100MHz reference input: 50 $Ω$ impedance, B	NC female connect	or
	10MHz reference output: 50 Ω impedance, BNC fe		
interface	16Hz reference input: 50 Ω impedance, SMA fema		
	100MHz/1GHz reference output: 50 Ω impedance,	SMA female connec	etor
Trigger	Trigger input 1: BNC female connector; Trigger input 2: BNC female connector;		
Interface	Trigger output 1: BNC female connector;		
	Trigger output 2: BNC female connector.		
	W (mm) x H (mm) x D (mm):		
Overall	$(474.6\pm4)\mathrm{mm} imes(237.5\pm2.5)\mathrm{mm} imes(559.5\pm4)\mathrm{mm}$ (including handles, retaining plates,		
dimensions	and pads)		
	$(426\pm4) \mathrm{mm} \times (221.5\pm2.5) \mathrm{mm} \times (450\pm4) \mathrm{mm} (\mathrm{exc})$	uding handles, re	etaining plates, and
	pads)		
Max. weight	Maximum 35kg (which varies with options)		
Power supply	AC 100~240V: 50~60Hz		
Power	Maximum power consumption 600W		

MW/MMW Measuring Instrument

3916B/D/E/F/H Series EMI Test Receiver

consumption	
Temperature	Operating temperature: 0°C to +50°C;
range	Storage temperature range: -40° C~+70° C

Note: 1 The rated value refers to the expected performance, or describes the product performance that is useful for the product but not included in the product warranty.

Order Information

• Instrument:

Model	Name	Frequency range
3916B	EMI test receiver	2Hz \sim 8.4GHz
3916D	EMI test receiver	2Hz~18GHz
3916E	EMI test receiver	2Hz~26.5GHz
3916F	EMI test receiver	2Hz∼45GHz
3916н	EMI test receiver	2Hz~50GHz

• Standard:

No.	Name	Description
1	Power cord	Standard 3-core power cord
2	Quick Start	
3	Certificate of conformity	

• Options

Option No.	Name	Function
3916-н12С	BW digital interface	Real-time output of wideband IQ acquisition data via optical fiber, supporting IQ data output with a maximum bandwidth of 40MHz. In combination with the high-capacity data recorder (4712C data recorder), real-time large-capacity recording of IQ data can be achieved. (Note: Option 3916-H38-40 is required).
3916-н13	Precision frequency reference	Provide higher-precision frequency reference.

		The preamplifier is selected according to
3916-н34-08	Low noise	the upper frequency limit of the EMI test
3310 1131 00	preamplifier	receiver. For example, for 3916B
		preamplifier, please choose H34-08.
		The preamplifier is selected according to
2016 1124 10	Low noise	the upper frequency limit of the EMI test
3916-н34-18	preamplifier	receiver. For example, for 3916D
		preamplifier, please choose H34-18.
		The preamplifier is selected according to
	Low noise	the upper frequency limit of the EMI test
3916-Н34-26	preamplifier	receiver. For example, for 3916E
		preamplifier, please choose H34-26.
		The preamplifier is selected according to
		the upper frequency limit of the selected
3916-H34-45	Low noise	EMI test receiver,
	preamplifier	for example, choose H34-45 for 3916F
		preamplifier.
		The preamplifier is selected according to
	Low noise preamplifier	the upper frequency limit of the selected
3916-н34-50		EMI test receiver,
0310 1101 00		for example, choose H34-50 for 3916H
		preamplifier.
		Support fast FFT time-domain sweep of up to
3916-н52	Fast time-domain	29.8MHz (Note: Option 3916-H38-40 is
3310 1132	sweep	required).
		Support analysis bandwidth of 10Hz to 40MHz.
3916-н38-40	40MHz analysis bandwidth	(Note: Options 3916-H52 and 3916-H38-40 are
3910-130-40		required.)
	Hearle were 1	
3916-н96	User's manual	It is used for providing detailed user
	(hard copy)	manual of hardcopy version.
3916-н97		The racking handle and accessories are used
	Rack mount kit	to rack and install the 3916 series in the
		standard cabinets.
	Aluminum alloy	High-strength lightweight aluminum alloy
3916-н99	transportation	transport case is provided with handle and
	case	wheels for easy transportation.

• Warranty and calibration service:

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