



1466 Series Signal Generator

1466C/D/E/G/H/L/N/P

(6kHz to 13GHz/20GHz/33GHz/45GHz/53GHz/67GHz/90GHz/110GHz)



Ceyear Technologies Co., Ltd

Product Overview

Ceyear 1466 series signal generator is a general-purpose test instrument for microwave and millimeter-wave cutting-edge testing, with wide frequency coverage, high signal spectral purity, output power with high accuracy and large dynamic range. With single-machine dual-RF channel and design, can meet your various test requirements. Rich built-in functions such as analog scanning, analog modulation and pulse modulation make daily testing more convenient.

The new upgrade of human-computer interaction, with large screen touch graphics guided interaction, mobile browser access control, multi-manufacturer power meter connection identification, multi-client deployment, SCPI command recording, control interface customization and a series of new functions to bring user's test happiness. The Ceyear 1466 series signal generator is ideal for high standard testing from component level to system level.



Main Features

Excellent RF Performance and richful functions

- Coaxial connectors: 6kHz to 13GHz/20GHz/33GHz/45GHz/53GHz/67GHz/90GHz/110GHz
- Excellent spectral purity: SSB < -132 dBc/Hz (typ.10 GHz carrier at 10kHz offset), Spurious < -80 dBc (10 GHz carrier)
- Excellent wideband noise floor, SSB-161dBc/Hz (measured value, 20GHz carrier, 30MHz frequency offset).
- Large dynamic range of high output power: settable power ranges from -150dBm to +35dBm
- Support AM, FM, Φ M and pulse modulation, the minimum pulse width of pulse modulation is 20ns

- Support stepping, list, power and analog scanning
- Support one main unit with two channels, each channel can be set separately

Newly updated interactive interface

- Large-screen touch graphics guide interaction, support user-defined menus
- Support USB power power for measurement and power flatness calibration and compensation
- Supports SCPI command recording, and can generate programming sample projects, such as Qt, MATLAB, C#, LabWindows/CV1, and C++
- Support GPIB, USB and LAN programming control
- Cross-platform client and browser access control

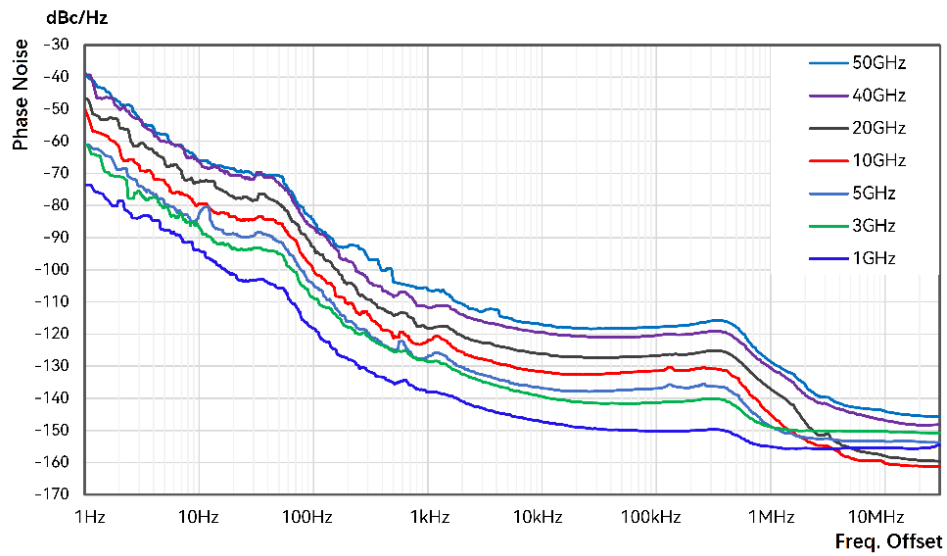
Excellent Performance

110GHz coaxial frequency coverage, easier and more accurate testing

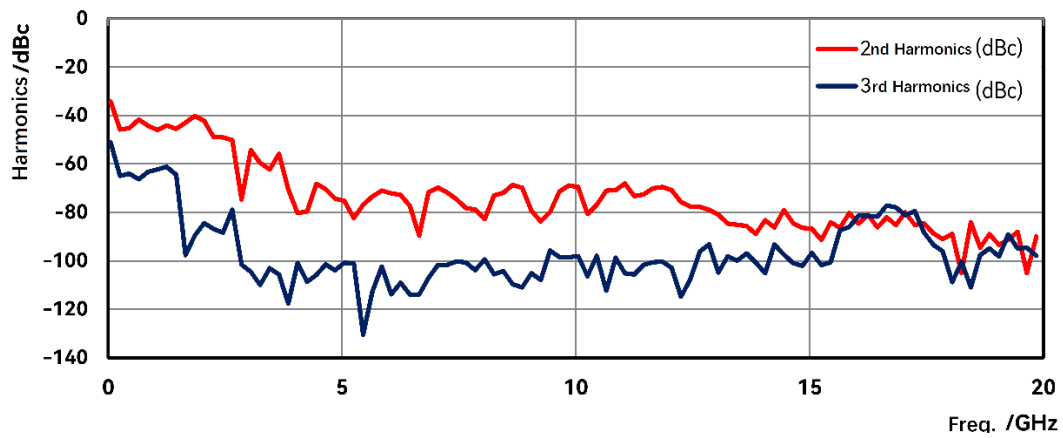
Ceyear 1466 series signal generator coaxial output frequency covers 6kHz to 110GHz, at the same time, it has high-precision large dynamic range amplitude control which can provide excellent power accuracy and stability. Ceyear 1466 series signal generator supports external Ceyear 8240X series and 1400 series new generation signal source extender modules, which can further expand the frequency to 1.1THz. It is a powerful tool for efficient millimeter-wave 5G communication RF conformance testing.

Excellent spectral purity, making cutting-edge testing easier

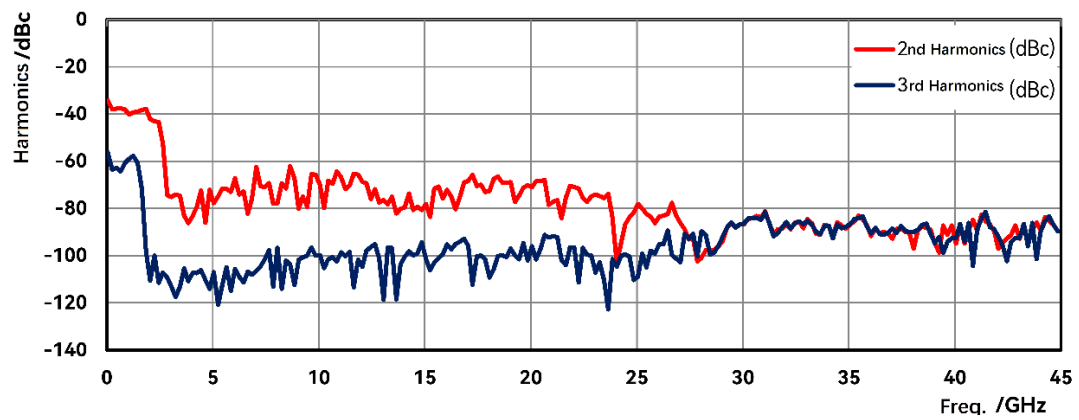
Ceyear 1466 series signal generator supports high spectral purity output signal, SSB phase noise: -145dBc/Hz @10kHz offset at 1GHz carrier, -132dBc/Hz @10kHz offset at 10GHz carrier, Wideband noise floor: -161dBc/Hz @30MHz offset at 20GHz carrier, spurious < -80dBc at 10GHz carrier, harmonics < -55dBc. The purer signal makes you no longer troubled by interfering signals when testing microwave and millimeter wave components, systems, and OTA.



Option H04-2: SSB phase noise measured value



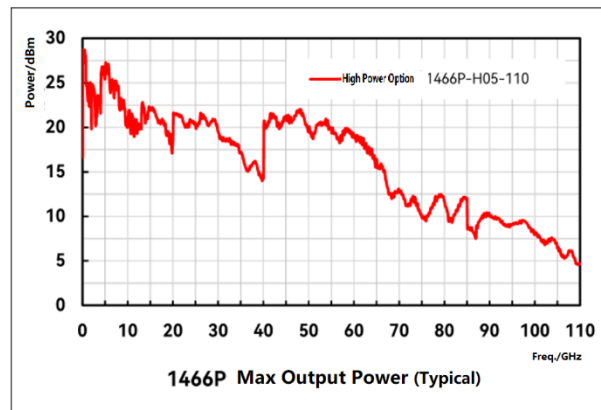
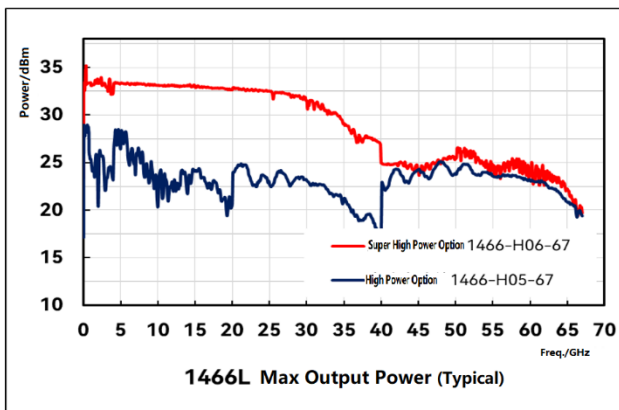
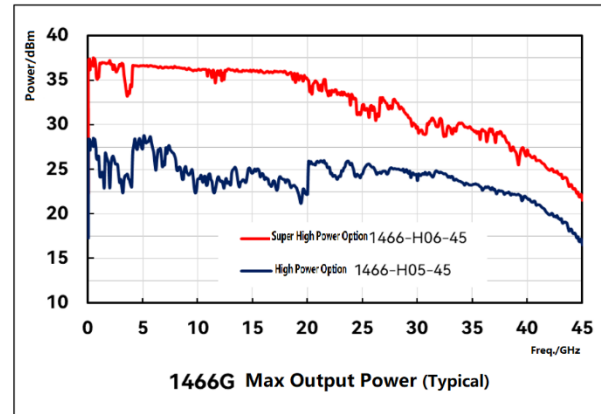
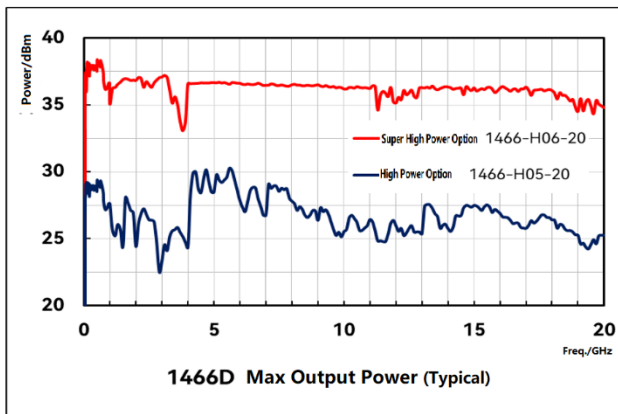
1466D harmonic measured value



1466G harmonic measured value

Large dynamic range, high accuracy power output

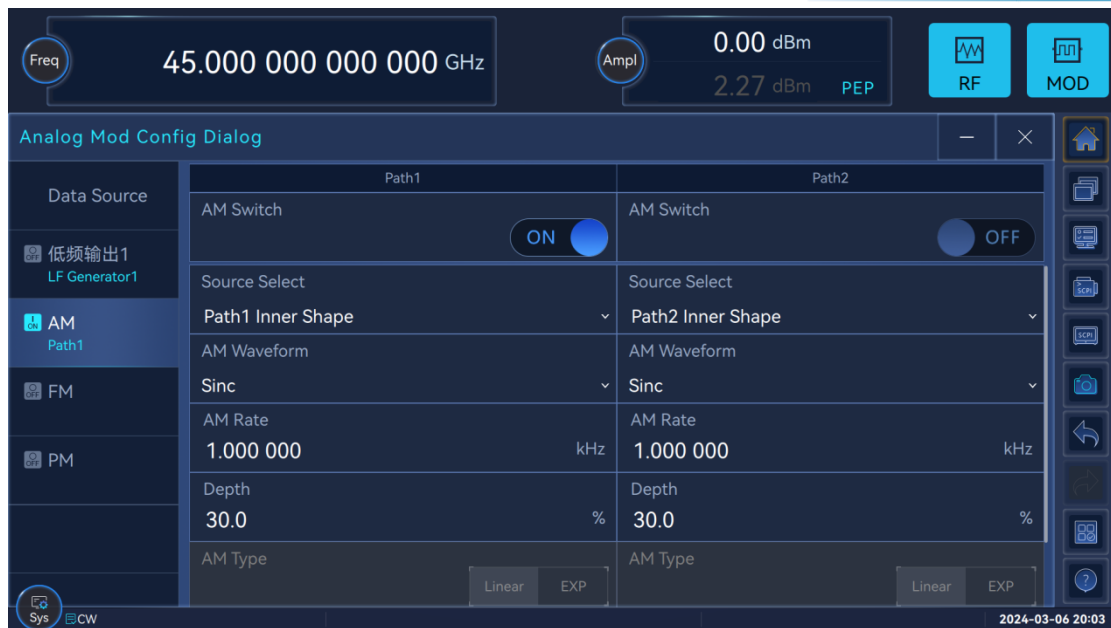
The 1466 series signal generator has the following maximum output power measurements: +35dBm at 10GHz, +34dBm at 20GHz, +30dBm at 28GHz, +27dBm at 40GHz, +23dBm at 60GHz, and +3dBm at 110GHz. The minimum output power is -150dBm (adjustable), with a dynamic range exceeding 180dB. It features excellent power accuracy, typically <math><0.5\text{dB}</math> (below 20GHz).



Rich Built-in Functions

Full range of analog modulations

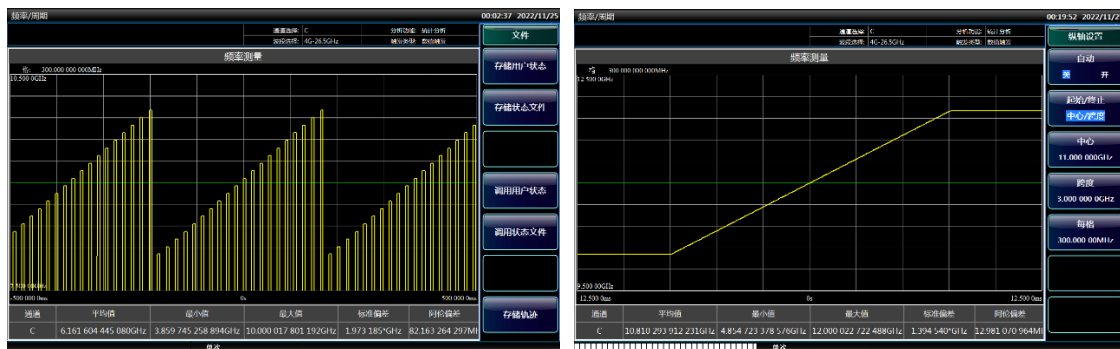
Amplitude modulation, frequency modulation, phase modulation and pulse modulation are supported. It has complex pulse modulation functions such as double pulse, pulse train, PRF jittering, PRF staggering, and PRF sliding.



Analog modulation interface

Multi-style sweep mode

Support Step sweep, List sweep, ramp sweep and power sweep functions.



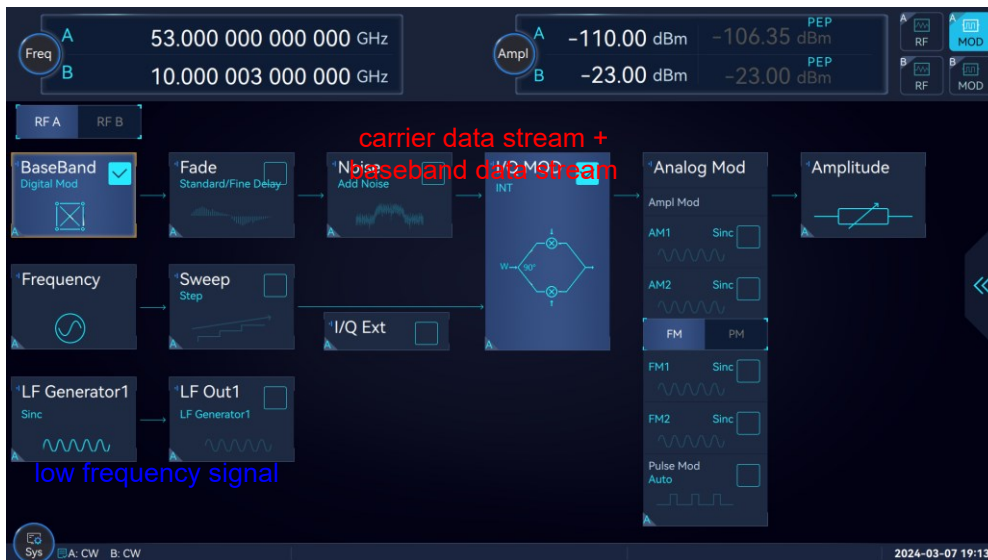
Step scanning

Analog scanning (slope scanning)

Newly Upgraded UI

Touchable graphic guide interaction

The 11.6-inch high-resolution touch screen is used to clearly display the main parameters and instrument status information, and with the signal flow diagram guidance interface, the display is more intuitive and the interaction is more friendly.



Signal flow diagram guidance interface

Flexible user control interface

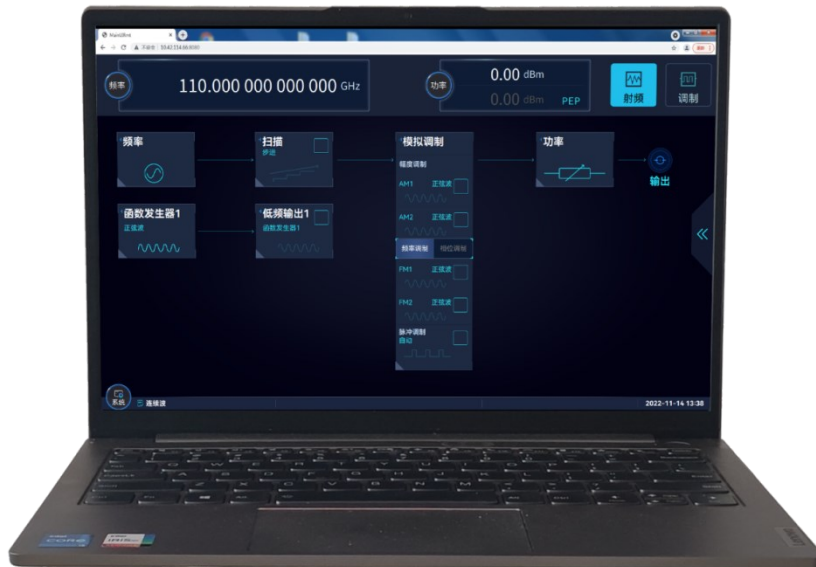
Support user-defined menus, tailor-made personalized user control interface according to test habits, realize multi-function operations in one window, and avoid the trouble of too deep menus and repeated searches.



User-defined menu

Support cross-platform client control

Cross-platform client and browser access control. Support multiple clients to connect at the same time, and the working status of the instrument is refreshed synchronously. Supports web browser access control for mobile devices.



Browser access to the generator

Simultaneous recording of SCPI commands and one-click script generation

It can not only export recorded SCPI commands with one click, but also automatically generate VS (C++, C#), Qt, Matlab, LabView program control example projects, making program control easier.



SCPI command recording

Technical Specifications

Frequency Characteristics			
Frequency	1466C: 6kHz to 13GHz 1466D: 6kHz to 20GHz 1466E: 6kHz to 33GHz 1466G: 6kHz to 45GHz 1466H: 6kHz to 53GHz 1466L: 6kHz to 67GHz 1466N: 6kHz to 90GHz 1466P: 6kHz to 110GHz	Frequency range	N (YO Harmonic Order)
		6kHz≤f≤10MHz	-
		10MHz<f≤50MHz	-
		50MHz<f≤62.5MHz	1/256
		62.5MHz<f≤125MHz	1/128
		125MHz<f≤250MHz	1/64
		250MHz<f≤500MHz	1/32
		500MHz<f≤1GHz	1/16
		1GHz<f≤2GHz	1/8
		2GHz<f≤4GHz	1/4
		4GHz<f≤8GHz	1/2
		8GHz<f≤20GHz	1
		20GHz<f≤40GHz	2
40GHz<f≤67GHz	4		
100GHz<f≤110GHz	6		
Frequency Resolution	0.001Hz		
Frequency accuracy	±3×10 ⁻⁸ (Factory calibration accuracy, 25°C±10°C)		
Frequency Temperature Stability	Option H04-1: ±5×10 ⁻⁸	Option H04-2: ±1×10 ⁻⁸	
Switching speed	< 15ms		
Aging rate	±5×10 ⁻¹⁰ /day (Powered after 30 days), ±5×10 ⁻⁸ /year		
Reference output	Frequency	10MHz	100MHz/1GHz (Option H07)
	Power	> +4dBm, impedance 50Ω	> -3dBm, impedance 50Ω
Reference input	Frequency	1 to 100MHz, step:1Hz	100MHz/1GHz (Option H07)
	Power	-5dBm to +10dBm, impedance 50Ω	-3dBm to +5dBm, impedance 50Ω
Sweep Characteristics			
Sweep mode	Step sweep, List sweep, Ramp(analog) sweep (option S15) Power sweep (option S16)		
Ramp(analog) sweep (Option S15)	Maximum sweep rate	400MHz/ms, frequency > 4GHz	
	Sweep accuracy	±0.05% of span (at 100ms sweep time, for sweep spans less than maximum values as 100ms)	
Power Characteristics			
Minimum Output Power	Model	Standard	Option H01-50/90/120/130/B130
	1466C/D/E/G	-10dBm (Settable) -20dBm	Option H01-130/B130: 6kHz≤f≤100kHz -110.0dBm (settable -150dBm) Freq. >100kHz -130.0dBm (settable -150dBm)
	1466H/L	-10dBm (Settable) -20dBm	Option H01-120: 6kHz≤f≤100kHz -110.0dBm (settable -140dBm) Freq. >100kHz -120.0dBm (settable -140dBm)
	1466N/P	-10dBm (Settable) -20dBm	Option H01-50: -50.0dBm (settable -70dBm) Option H01-90: -90.0dBm (settable -110dBm)
1466D+H06-20	-10dBm (Settable)	Option H01-130:	

Frequency range		90/120	H05-53)	(option H01-90/120+H05-53)
6kHz≤f≤50MHz	≥+8.0	≥+8.0	≥+12.0	≥+12.0
50MHz<f≤20GHz	≥+8.0	≥+8.0	≥+17.0	≥+16.0
20GHz<f≤40GHz	≥+8.0	≥+8.0	≥+15.0	≥+13.0
40GHz<f≤53GHz	≥+8.0	≥+8.0	≥+20.0	≥+18.0
1466L				
Configuration	Standard	Programmable step attenuator Option H01-90/120, H01-B90/120	High output power (option H05-67)	High output power and programmable step attenuator (option H01-120+H05-67)
Frequency range				
6kHz≤f≤50MHz	≥+8.0	≥+8.0	≥+12.0	≥+12.0
50MHz<f≤20GHz	≥+8.0	≥+8.0	≥+17.0	≥+16.0
20GHz<f≤40GHz	≥+8.0	≥+8.0	≥+15.0	≥+13.0
40GHz<f≤53GHz	≥+8.0	≥+8.0	≥+20.0	≥+18.0
53GHz<f≤65GHz	≥+8.0	≥+8.0	≥+18.0	≥+16.0
65GHz<f≤67GHz	≥+8.0	≥+8.0	≥+15.0	≥+15.0
1466N				
Configuration	Standard	Programmable step attenuator Option H01-50,	High output power (option H05-90)	High output power and programmable step attenuator (option H01-50+H05-90)
Frequency range				
6kHz≤f≤50MHz	≥+5.0	≥+5.0	≥+8.0	≥+8.0
50MHz<f≤20GHz	≥+5.0	≥+5.0	≥+13.0	≥+13.0
20GHz<f≤40GHz	≥+5.0	≥+5.0	≥+12.0	≥+10.0
40GHz<f≤67GHz	≥3.0	≥+3.0	≥+10.0	≥+8.0
67GHz<f≤85GHz	≥0.0	≥0.0	≥+7.0	≥+5.0
85GHz<f≤90GHz	≥-5.0	≥-5.0	≥+3.0	≥0.0
1466P				
Configuration	Standard	Programmable step attenuator Option H01-50,	High output power (option H05-110)	High output power and programmable step attenuator (option H01-50+H05-110)
Frequency range				
6kHz≤f≤50MHz	≥+5.0	≥+5.0	≥+8.0	≥+8.0
50MHz<f≤20GHz	≥+5.0	≥+5.0	≥+13.0	≥+13.0
20GHz<f≤40GHz	≥+5.0	≥+5.0	≥+12.0	≥+10.0
40GHz<f≤67GHz	≥3.0	≥3.0	≥+10.0	≥+8.0
67GHz<f≤85GHz	≥0.0	≥0.0	≥+7.0	≥+5.0
85GHz<f≤110GHz	≥-5.0	≥-5.0	≥+3.0	≥+0.0
1466D+H06-20, 1466G+H06-40, 1466L+H06-67				
Frequency	Standard	Option: H01-130/120		
6kHz≤f≤50MHz	≥+15.0	≥+15.0		
50MHz<f≤3.5GHz	≥+33.0	≥+32.0		
3.5GHz<f≤4GHz	≥+30.0	≥+30.0		
4GHz<f≤20GHz	≥+33.0	≥+32.0		
20GHz<f≤28GHz	≥+30.0	≥+29.0		
28GHz<f≤40GHz	≥+25.0	≥+23.0		

	40GHz < f ≤ 60GHz	≥ +23.0	≥ +22.0			
	60GHz < f ≤ 65GHz	≥ +20.0	≥ +18.0			
	65GHz < f ≤ 67GHz	≥ +18.0	≥ +17.0			
Power Accuracy (25±10°C)	Standard Configuration					
	Power(dBm)	-10dBm < P ≤ +10dBm	+10dBm < P ≤ +25dBm	+25dBm < P		
	Frequency					
	6kHz ≤ f ≤ 50MHz	±1.0dB	±1.0dB	—		
	50MHz < f ≤ 3GHz	±0.5dB	±0.5dB	±1.0dB		
	3GHz < f ≤ 20GHz	±0.9dB	±0.9dB	±1.2dB		
	20GHz < f ≤ 40GHz	±1.0dB	±1.0dB	—		
	40GHz < f ≤ 50GHz	±1.3dB	±1.3dB	—		
	50GHz < f ≤ 67GHz	±1.8dB	±1.8dB	—		
	67GHz < f ≤ 85GHz	±2.0dB	—	—		
	85GHz < f ≤ 110GHz	±2.2dB	—	—		
	H01-130/120/90/50/B130 programmable step attenuator option					
	Power(dBm)	+120dBm < P ≤ -90dBm	-90dBm < P ≤ -50dBm	-50dBm < P ≤ +10dBm	+10dBm < P ≤ +25dBm	+25dBm < P
	Frequency					
	6kHz ≤ f ≤ 50MHz	—	±1.5dB	±1.0dB	±1.0dB	—
	50MHz < f ≤ 3GHz	±1.2dB	±0.7dB	±0.5dB	±0.5dB	±1.0dB
	3GHz < f ≤ 20GHz	±1.8dB	±0.9dB	±0.9dB	±0.9dB	±1.2dB
	20GHz < f ≤ 40GHz	—	±1.2dB	±1.0dB	±1.0dB	—
	40GHz < f ≤ 50GHz	—	±1.5dB	±1.3dB	±1.3dB	—
50GHz < f ≤ 67GHz	—	±2.0dB	±1.8dB	±1.8dB	—	
67GHz < f ≤ 85GHz	—	—	±2.0dB	±2.0dB	—	
85GHz < f ≤ 110GHz	—	—	±2.2dB	—	—	
Power resolution	0.01dB					
Temperature stability	0.02dB/°C (typ)					
Output impedance	50Ω (rated)					
VSWR (internal ALC on)(typ)	100kHz ≤ f ≤ 20GHz	<1.6				
	20GHz < f ≤ 40GHz	<1.8				
	40GHz < f ≤ 67GHz	<2.0				
	67GHz < f ≤ 85GHz	<2.5				
	85GHz < f ≤ 110GHz	<3.0				
Maximum reverse power	0.5W (0V DC) (typ)					
Spectrum Purity Characteristics						
Harmonics (dBc at +10dBm or maximum specified output power, whichever is lower)	Frequency	Standard	H08/H08B RD Low Harmonic Option			
	100kHz ≤ f ≤ 10MHz	< -30dBc	< -40dBc			
	10MHz ≤ f ≤ 3GHz	< -30dBc	< -55dBc			
	3GHz < f ≤ 67GHz	< -55dBc	< -55dBc			
67GHz < f ≤ 110GHz	< -40dBc	< -40dBc				
Sub-harmonics (at +10dBm or maximum specified output power, whichever is lower)	6kHz ≤ f < 50MHz	< -80dBc				
	50MHz ≤ f ≤ 20GHz	< -95dBc				
	20GHz < f ≤ 40GHz	< -70dBc				
	40GHz < f ≤ 110GHz	< -50dBc				
Non-harmonics(dBc at 0dBm, for	Frequency	Standard/Option H04-1	Option H04-2			
	6kHz ≤ f ≤ 250MHz	< -58dBc	< -68dBc			

offset >3kHz)	250MHz<f≤10GHz	<-70dBc				<-80dBc		
	10GHz<f≤20GHz	<-64dBc				<-74dBc		
	20GHz<f≤40GHz	<-58dBc				<-68dBc		
	40GHz<f≤67GHz	<-52dBc				<-62dBc		
	67GHz<f≤110GHz	<-48dBc				<-58dBc		
SSB phase noise (dBc/Hz, at +10dBm or maximum specified output power, whichever is lower)	Standard Configuration							
	Offset from carrier	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	10MHz
	10MHz	—	<-110	<-128	<-134	<-138	—	—
	100MHz	—	<-110	<-128	<-134	<-138	—	—
	250MHz<f≤500MHz	—	<-108	<-126	<-132	<-136	—	—
	0.5 GHz<f≤1GHz	—	<-103	<-121	<-130	<-130	—	—
	1 GHz<f≤2GHz	—	<-97	<-117	<-124	<-124	—	—
	2 GHz<f≤4GHz	—	<-92	<-111	<-118	<-118	—	—
	4GHz<f≤10GHz	—	<-85	<-105	<-110	<-110	—	—
	10GHz<f≤20GHz	—	<-79	<-98	<-104	<-104	—	—
	20GHz<f≤40GHz	—	<-73	<-91	<-98	<-98	—	—
	40GHz<f≤67GHz	—	<-68	<-85	<-92	<-92	—	—
	67GHz<f≤110GHz	—	<-62	<-79	<-86	<-86	—	—
	H04-1 low phase noise option							
	Offset from carrier	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	10MHz
	10MHz	—	<-120	<-141	<-148	<-150	—	—
	100MHz	—	<-118	<-141	<-148	<-148	—	—
	250MHz<f≤500MHz	—	<-111	<-130	<-145	<-143	—	—
	0.5 GHz<f≤1GHz	—	<-105	<-124	<-140	<-138	—	—
	1 GHz<f≤2GHz	—	<-100	<-118	<-134	<-132	—	—
	2 GHz<f≤4GHz	—	<-93	<-113	<-128	<-126	—	—
	4GHz<f≤10GHz	—	<-85	<-105	<-120	<-118	—	—
	10GHz<f≤20GHz	—	<-79	<-99	<-114	<-112	—	—
	20GHz<f≤40GHz	—	<-73	<-93	<-108	<-106	—	—
	40GHz<f≤67GHz	—	<-67	<-87	<-103	<-101	—	—
	67GHz<f≤110GHz	—	<-61	<-81	<-97	<-95	—	—
	H04-2 ultra low phase noise option							
	Offset from carrier	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	10MHz
	10MHz	<-120	<-136	<-141	<-148	<-150	—	—
	100MHz	<-102	<-118	<-141	<-148	<-148	<-148	<-148
	250MHz<f≤500MHz	<-92	<-112	<-135	<-146	<-148	<-150	<-150
	0.5GHz<f≤1GHz	<-90	<-110	<-133	<-144	<-147	<-150	<-150
	1GHz<f≤2GHz	<-88	<-104	<-127	<-138	<-142	<-148	<-148
2 GHz<f≤4GHz	<-82	<-99	<-122	<-135	<-136	<-146	<-148	
4GHz<f≤10GHz	<-77	<-91	<-115	<-128	<-128	<-140	<-154	
10GHz<f≤20GHz	<-71	<-85	<-109	<-122	<-122	<-134	<-152	

	20GHz<f≤40GHz	<-63	<-79	<-99	<-116	<-116	<-128	<-142
	40GHz<f≤67GHz	<-57	<-73	<-94	<-110	<-110	<-122	<-136
	67GHz<f≤110GHz	<-51	<-67	<-88	<-104	<-104	<-116	<-128
Modulation Characteristics								
Frequency modulation (50MHz<f≤50GHz, Option S11)	Maximum deviation: N×20MHz (N: YO harmonic number) Accuracy (at 1kHz, N×20kHz≤deviation<N×800kHz): <± (2.5%× set frequency offset +20Hz) Modulation rate (3dB bandwidth, N×500kHz frequency offset): DC-10MHz Distortion (at 1kHz, N×20kHz≤deviation<N×800kHz): <1%							
Phase modulation (50MHz<f≤50GHz, Option S11)	Maximum deviation: Normal mode: N×20.0rad (N: YO harmonic number) Broadband mode: N×2rad Low noise mode: N×0.2rad Accuracy (at 1kHz, N×0.2rad≤phase offset<N×8rad, normal mode): <± (3% of setting offset +0.01 rad) Modulation rate (3dB bandwidth): (Broadband mode): DC to 10MHz(typ) Distortion (at 1kHz, N×0.8rad≤ offset <N×8rad, THD): <0.8%							
Amplitude modulation (10MHz<f≤50GHz, Option S11)	Maximum depth: >90% Modulation rate (3 dB bandwidth, 30% modulation depth): DC to 100kHz Accuracy (1kHz modulation rate, 30% modulation depth): ±(5% of setting+1%) Distortion (1kHz modulation rate, Linear mode, THD, 30% modulation depth): <1.5%							
Pulse modulation (option S13 covers option S12)	Option S12 Pulse Modulation							
		50MHz<f≤ 67GHz				>67GHz		
	On/Off ratio	>80dB				>60dB		
	Rise/fall times	<20ns				<30ns		
	Repetition frequency	0Hz to 25MHz				0Hz to 25MHz		
	Minimum pulse width	0.1μs				0.1μs		
	Option S13 Narrow Pulse Modulation							
		50MHz<f≤ 67GHz				>67GHz		
	On/off ratio	>80dB				>60dB		
	Rise/fall times	<10ns				<30ns		
	Repetition frequency	0Hz to 25MHz				0Hz to 25MHz		
	Minimum pulse width	20ns				0.1 μ s		
LF out/Function Generator (option S14)	Support frequency/phase modulation, amplitude modulation output Waveform: sina, square, triangle, sawtooth, noise, double sine, sweep sine Frequency range: DC to 10MHz for sine, double sine, sweep sine waveform; 0.1Hz to 1MHz for square, triangle, swatooth waveform. Frequency resolution: 0.1Hz Low frequency output: amplitude: 0 to 5Vpp(rated), into 50Ω load							
General Characteristics								
RF output port	1466C/D: 3.5mm (Male), Impedance 50Ω 1466E/G: 2.4mm (Male), Impedance 50Ω 1466H/L: 1.85mm (Male), Impedance 50Ω 1466N/P: 1.0mm (Male), Impedance 50Ω							
Dimension (W×H×D)	475mm×193mm×610mm (Includes handle and protective bottom corner) 426mm×177mm×500mm (Excludes handle and protective bottom corner)							

Weight	<35kg (weight depend on product model and options)
Power requirements	100 to 120VAC,50 to 60Hz or 200 to 240VAC,50 to 60Hz (adaptive power supply)
Power consumption	< 600W
Temperature range	Operating temperature range: 0°C to +50°C; Storage temperature range: -40°C to +70°C

Note:

1. Maximum output power specifications refer to peak envelope power (PEP).
2. When selecting H08/H08B, the maximum power specification decreases by 3dB for $50\text{MHz} < f \leq 4\text{GHz}$.
3. Typical values refer to performance information of other products not within the product's "guaranteed specifications." Approximately 80% of instruments achieve performance specifications within a temperature range of 20°C to 30°C. Typical values do not include uncertainties during the measurement process.
4. Harmonic frequencies exceeding 110GHz are design-guaranteed values and are not tested.
5. Regarding the 10MHz frequency offset single-sideband phase noise specification, it is -150dBc/Hz for $4\text{GHz} < f \leq 8\text{GHz}$; when selecting the H06 option, the specifications for options H04-1 and H04-2 below 1GHz are uniformly standard.

Ordering Information

● Mainframe:

1466C Signal Generator:	6kHz to 13GHz
1466D Signal Generator:	6kHz to 20GHz
1466E Signal Generator:	6kHz to 33GHz
1466G Signal Generator:	6kHz to 45GHz
1466H Signal Generator:	6kHz to 53GHz
1466L Signal Generator:	6kHz to 67GHz
1466N Signal Generator:	6kHz to 90GHz
1466P Signal Generator:	6kHz to 110GHz

● Standard Configuration:

No.	Description	Remarks
1	Power cable assembly	
2	The Product certificate of conformity	/

● Options:

Option No.	Description	Function and performance descriptions
Programmable Step Attenuator Options		
1466-H01-130	130dB programmable step attenuator	To expand output power dynamic range for 1466C/D/E/G
1466-H01-120	120dB programmable step attenuator	To expand output power dynamic range for 1466H/L
1466-H01-90	90dB programmable step attenuator	To expand output power dynamic range for 1466H/L
1466-H01-50	50dB programmable step attenuator	To expand output power dynamic range for 1466N/P
1466-H01-B130	Channel B 130dB programmable step attenuator	To expand Channel B output power dynamic range for 1466C/D/E/G, Requires option 1466-H11 Channel B.
Low Phase Noise Option		
1466-H04-1	Low phase noise	Improved phase noise performance, 10GHz@10kHz: -120dBc/Hz.
1466-H04-2	Ultra low phase noise	Improved phase noise performance, 10GHz@10kHz: -128dBc/Hz.
1466-H04-B1	Channel B low phase noise	Improved Channel B phase noise performance, 10GHz@10kHz: -120dBc/Hz, For 1466-H11 Channel B.
1466-H04-B2	Channel B ultra low phase noise	Improved Channel B phase noise performance, 10GHz@10kHz: -128dBc/Hz, For 1466-H11 Channel B.
High Power Option		
1466-H05-13	13GHz High output power	Improve maximum output power for 1466C
1466-H05-20	20GHz High output power	Improve maximum output power for 1466D
1466-H05-33	33GHz High output power	Improve maximum output power for 1466E
1466-H05-45	45GHz High output power	Improve maximum output power for 1466G
1466-H05-53	53GHz High output power	Improve maximum output power for 1466H

Option No.	Description	Function and performance descriptions
1466-H05-67	67GHz High output power	Improve maximum output power for 1466L
1466-H05-90	90GHz High output power	Improve maximum output power for 1466N
1466-H05-110	110GHz High output power	Improve maximum output power for 1466P
1466-H05-B13	13GHz Channel B High output power	Improve Channel B maximum output power for 1466C, Option 1466-H11-B13 need to be configured
1466-H05-B20	20GHz Channel B High output power	Improve Channel B maximum output power for 1466D, Option 1466-H11-B20 need to be configured
1466-H05-B33	33GHz Channel B High output power	Improve Channel B maximum output power for 1466E, Option 1466-H11-B33 need to be configured
1466-H05-B45	45GHz Channel B High output power	Improve Channel B maximum output power for 1466G, Option 1466-H11-B45 need to be configured
1466-H06-20	20GHz enhanced high output power	Further increases maximum output power. Suitable for 1466D, cannot be selected simultaneously with option H04-2.
1466-H06-40	40GHz enhanced high output power	Further increases maximum output power. Suitable for 1466G, maximum frequency 40GHz, cannot be selected simultaneously with option H04-2.
1466-H06-67	67GHz enhanced high output power	Further increases maximum output power. Suitable for 1466L, cannot be selected simultaneously with option H04-2.
Input/Output Options		
1466-H07	100MHz/1GHz Ref In/Out	Support 100MHz or 1GHz reference signal input and output
Dual Channel Option		
1466-H11-B13	13GHz Channel B	Add Channel B, output 6kHz to 13GHz analog signal for 1466C/D/E/G
1466-H11-B20	20GHz Channel B	Add Channel B, output 6kHz to 20GHz analog signal for 1466D/E/G
1466-H11-B33	33GHz Channel B	Add Channel B, output 6kHz to 33GHz analog signal for 1466E/G
1466-H11-B45	45GHz Channel B	Add Channel B, output 6kHz to 45GHz analog signal for 1466G
Additional Option		
1466-H94	Rack mount kit	Mount kit for rack
1466-H98	English version	
1466-H99	Aluminum alloy transport case	High-intensity portable aluminum alloy transport case, with carrying handle and omni-directional wheel, convenient for transportation
1466-H100	User Manual paper version	A detailed user manual in hard copy is provided.
Analog Modulation Option		
1466-S11	Analog modulation	Add analog modulation function including AM, FM, Φ M
1466-S12	Pulse modulation	Add pulse modulation function, minimum pulse width 100ns
1466-S13	Narrow pulse modulation	Add pulse modulation function, minimum pulse width 20ns
1466-S14	LF output/function waveform generator	Add low frequency output and function waveform signal generation
Scanning Option		
1466-S15	Ramp(analog)sweep	Add analog sweep function (Ramp sweep)
1466-S16	Power sweep	Add power sweep function
Warranty Extension		
1466C-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466C
1466D-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466D
1466E-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466E
1466G-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466G

Option No.	Description	Function and performance descriptions
1466H-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466H
1466L-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466L
1466N-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466N
1466P-EWT1	Extend 1 year warranty	Extend 1 year warranty after 3 years standard warranty. For 1466P
Metrology Certificate		
1466C-JL	Metrology Certificate	Metrology Certificate Report. For 1466C
1466D-JL	Metrology Certificate	Metrology Certificate Report. For 1466D
1466E-JL	Metrology Certificate	Metrology Certificate Report. For 1466E
1466G-JL	Metrology Certificate	Metrology Certificate Report. For 1466G
1466H-JL	Metrology Certificate	Metrology Certificate Report. For 1466H
1466L-JL	Metrology Certificate	Metrology Certificate Report. For 1466L
1466N-JL	Metrology Certificate	Metrology Certificate Report. For 1466N
1466P-JL	Metrology Certificate	Metrology Certificate Report. For 1466P



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