



MAXWELLON 1465V

100kHz~10GHz/20GHz/40GHz/50GHz/67GHz

Vector Signal Generator

2023

1465-V series signal generators has excellent vector modulation performance within the frequency range of 100 kHz to 67GHz. It has 1GHz internal modulation bandwidth and 2GHz external modulation real-time bandwidth, which can meet various modulation needs of wideband signals. The generator has excellent spectrum purity and output power specifications. The phase noise of 10GHz carrier@10kHz frequency offset can be reached to -126dBc/Hz, to meet high-level test needs which have strict requirements of testing signals. The generator also has excellent vector modulation accuracy and at the full frequency range the EVM is less than 1.4% (4Msps), which makes the generator be used in metrology purpose. The baseband signal generator can be set easily with flexible performance and many modulation formats. More than 20 kinds of common modulation formats are supported, such as PSK, QAM, and FSK, ASK and so on. The arbitrary wave modulation support 5 kinds of download file format, users can edit and download the waveform according to their own requirement.

■ Key Feature

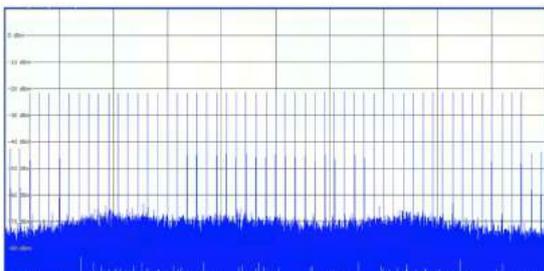
- Broadband Vector Signal Generation
- Large Vector Modulation Bandwidth
- High Compatible Arbitrary Wave Data Format Download
- High Purity Spectrum
- Broadband And High-Power Output
- Metrology Grade Vector Modulation Accuracy
- Complete Universal Digital Modulation Format
- Convenient Touch Screen Control
- Multiple Control And Function Extension Interfaces

Broadband Vector Signal Generation

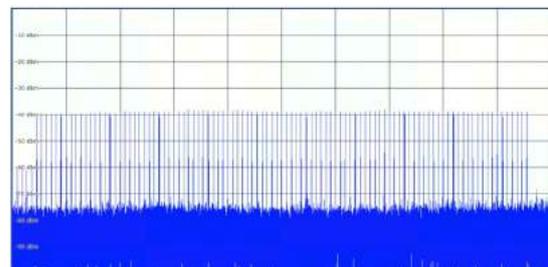
1465-V series signal generators can provide various signal testing solutions covering 10GHz/20GHz/40GHz/50GHz/67GHz to meet user's specific needs in different fields. Especially,1465-V-L signal generator with 100kHz~67GHz frequency range can meet test needs of most users .

Large Vector Modulation Bandwidth

1465-V series signal generators can provide 1GHz internal modulation bandwidth and 2GHz external modulation bandwidth (above 3.2GHz carrier) vector signal generation function .



Multi-tone signal using 9GHz carrier and 1GHz modulation bandwidth



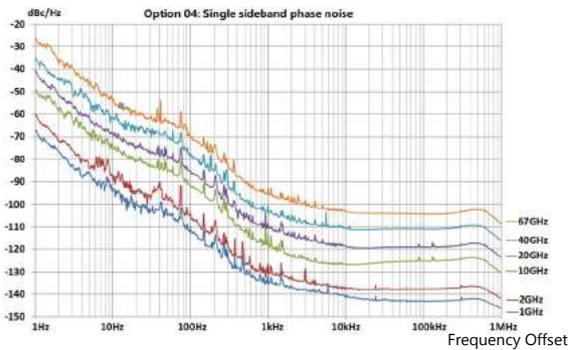
Multi-tone signal using 60GHz carrier and 1GHz modulation bandwidth

High Compatible Arbitrary Wave Data Format Download

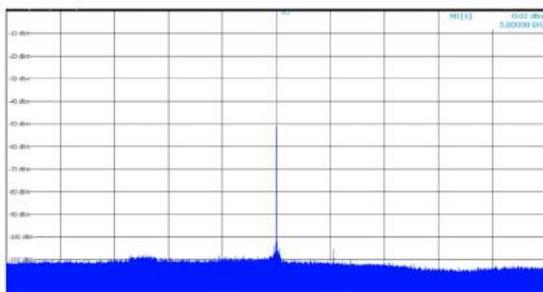
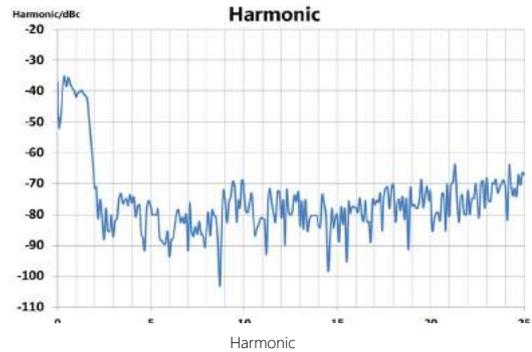
1465-V series signal generators support direct download and display of arbitrary waveforms. The file formats include Mat-File 5, ASCII, Binary, cap and csv. The generator has a 2GSa storage depth.

High Purity Spectrum

1465-V series signal generators are able to output extremely pure signal spectrum. The single side band phase noise of 10GHz carrier and 10kHz frequency offset has a typical value of -126dBc/Hz and 1GHz carrier and 10kHz frequency offset typically reaches -142dBc/Hz. It can be used for Doppler radar as well as high-performance receiver block and adjacent channel selectivity test. It also can be an ideal alternative device for local oscillator and low jitter timer.



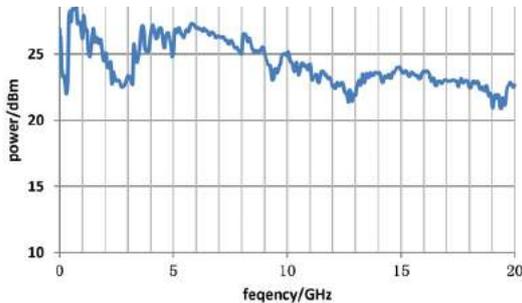
Option H04 single side band phase noise



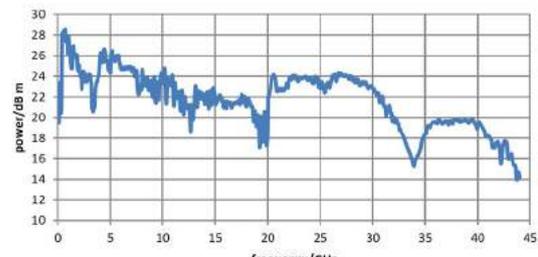
2GHz sweep width non-harmonics

Broadband And High-Power Output

For high-power option H05, typical values for the maximum output power are +22dBm at 20GHz and +16dBm at 40GHz. There's no need for an external amplifier when you need high power stimulus signal during test. And what's more, the power accuracy and stability are better.



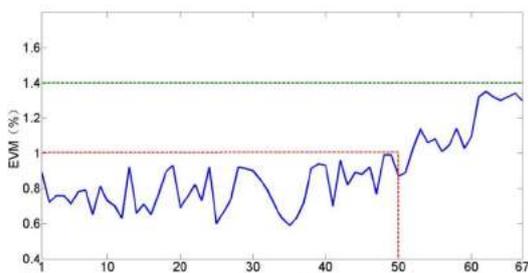
1465D-V maximum power output (option H05)



1465F-V maximum power output (option H05)

Metrology Grade Vector Modulation Accuracy

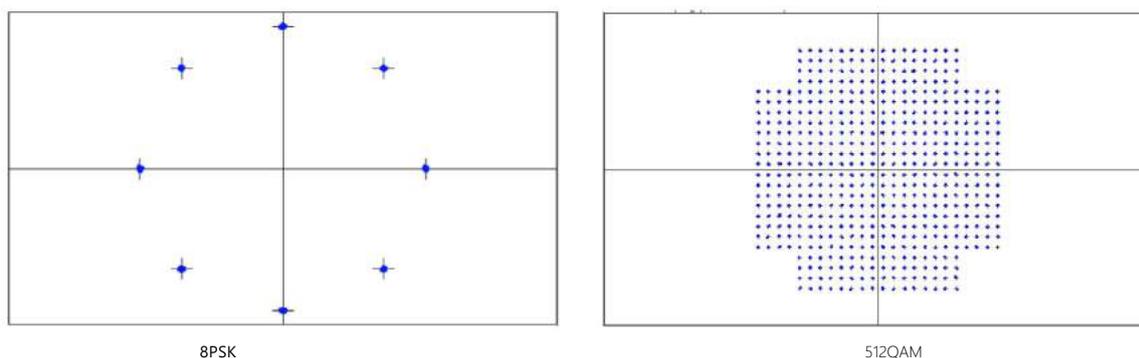
1465-V series signal generators has excellent vector modulation accuracy. The EVM is less than 1.4% (typical value < 1.0%) at the frequency range 100kHz-40GHz, and EVM < 2.5% (typical value < 1.5%) at the frequency range 40GHz-67GHz.



Symbol rate: 4Msps, root-Nyquist filter, $\alpha=0.3$, EVM test under QPSK

Complete Universal Digital Modulation Format

1465-V series signal generators can provide real-time generation of universal digital modulation signals, including more than 20 kinds of modulations, such as PSK,QAM,FSK,MSK etc.



Convenient Touch Screen Control

A 10.1-inch LED display screen of 1280×800 resolution shows the instrument states information clearly. Conspicuous color matching, proper function division and various function panel buttons provide a fresh sight of vision, easy operation and higher test efficiency for you. Besides with the panel buttons, the instrument can be controlled independently by operating with enter knob, sliding or clicking on the touch screen, and using external keyboard or mouse.

Multiple Control and Function Extension Interfaces

Support various auxiliary interfaces such as USB, LAN, GPIB, Monitor. The USB interface can be used for data transmission and external keyboard/mouse. LAN and GPIB can be used for programmable control. The monitor connector can be used for external display when using a CRT or LCD.

■ Typical Applications

High-reliability Communication system Test

Support various auxiliary interfaces such as USB, LAN, GPIB, Monitor. The USB interface can be used for data transmission and external keyboard/mouse. LAN and GPIB can be used for programmable control. The monitor connector can be used for external display when using a CRT or LCD.

To Simulate Various Application Scenes for Radar and EM Environment

1465-V series signal generator has wide frequency range and high resolution(16bit)as well as powerful signal simulation function. It can generate complex sequences of various modulation formats by editing waveform segment under different scenes. Together with abundant functional synchronous trigger interface, it can simulate complex interference signal under actual environment and accomplish anti-interference test of radar equipment.

Provide Accurate Arbitrary Wave Modulation Signal

1465-V series signal generator has 2G sampling point waveform storage capacity. This feature can allow designer to generate a long-time test data, which may be more close to the reality. User can create one of the kinds of arbitrary wave data using the third party tools or software.

High-performance Receiver Test

1465-V series signal generator has a 140dB output dynamic range and extremely high frequency stability as well as 0.001Hz frequency resolution. It can output high-accuracy standard test signal which can solve parameter test problem such as sensitivity, dynamic range and channel selectivity to accomplish test of high-performance receiver used in radar, electronic warfare and communication equipment.

Local Oscillator Substitution

1465-V series signal generator has extremely high signal quality, thus can be used as an ideal device to substitute LO when testing transmitter and receiver and other systems. It will guarantee your test accuracy and credibility by avoiding negative influences that low-quality LO brings in.

■ Specification¹

Frequency Properties					
Frequency Range	1465C-V:100kHz~10GHz 1465D-V:100kHz~20GHz 1465F-V:100kHz~40GHz (Max. frequency of 44GHz) 1465H-V:100kHz~50GHz 1465L-V:100kHz~67GHz	Frequency	N (Internal YO harmonic number)		
		100kHz≤f≤250MHz	1/8		
		250MHz<f≤500MHz	1/16		
		500MHz<f≤1GHz	1/8		
		1GHz<f≤2GHz	1/4		
		2GHz<f≤3.2GHz	1/2		
		3.2GHz<f≤10GHz	1		
		10GHz<f≤20GHz	2		
		20GHz<f≤28.5GHz	3		
		28.5GHz<f≤50GHz	5		
50GHz<f≤67GHz	10				
Frequency Resolution	0.001Hz				
Frequency Switching Time	<20ms(typical value)				
Timebase Aging Rate (typical value ³)	±5×10 ⁻¹⁰ /day (after 30-day continuous power-on)				
Reference Output	Frequency	10MHz			
	Power	> +4dBm to 50 Ω load			
Reference Input	Frequency	1-50MHz, 1Hz step			
	Power	-5dBm ~ +10dBm, 50Ω impedance			
Sweep Properties					
Sweep Mode	Step Sweep, List Sweep, Analog Sweep, Power Sweep				
High-Precision Analog Sweep (option H03)	Max. Sweep Speed	100kHz≤f≤500MHz	25MHz/ms		
		500MHz<f≤1GHz	50MHz/ms		
		1GHz<f≤2GHz	100MHz/ms		
		2GHz<f≤3.2GHz	200MHz/ms		
		3.2GHz<f	400MHz/ms		
	Sweep Accuracy	±0.05% Sweep width (for 100ms, within the maximum width of 100ms as specified)			
Power Properties					
Min. Power	Model	Standard		Option H01A/B	
	1465C/D/F-V	-20dBm		-110dBm (-135dBm configurable)	
	1465H/L-V	-20dBm		-90dBm (-110dBm configurable)	
Max. power (25±10°C)	Frequency range	Standard	H01A/B programmable step attenuator option	H05 high-power output option	Options H01A/B+H05
	1465C/D-V				
	100kHz≤f≤20GHz	15dBm	15dBm	20 ³ dBm	20 ³ dBm
	1465F-V				
	100kHz≤f≤9GHz	10dBm	10dBm	18dBm	18dBm
	9GHz<f≤30GHz	10dBm	10dBm	15dBm	15dBm
	30GHz<f≤40GHz	10dBm	10dBm	12dBm	12dBm
1465H/L-V					
100kHz≤f≤15GHz	5dBm	5dBm	15dBm	15dBm	

	Frequency range	Standard	H01A/B programmable step attenuator option	H05 high-power output option	Options H01A/B+H05
Max. power (25±10°C)	15GHz<f≤30GHz	5dBm	5dBm	12dBm	12dBm
	30GHz<f≤60GHz	5dBm	4dBm	8dBm	6dBm
	60GHz<f≤67GHz	4dBm	3dBm	6dBm	4dBm
Power Accuracy (25±10°C)	Standard				
		power (dBm)			
	Frequency	10~20	-10~10	20~-10	
	100kHz≤f≤2GHz	±0.8dB	±0.6dB	±1.5dB	
	2GHz<f≤20GHz	±0.8dB	±0.8dB	±1.5dB	
	20GHz<f≤40GHz	±1.0dB	±0.9dB	±1.8dB	
	40GHz<f≤50GHz	---	±1.3dB	±1.8dB	
	50GHz<f≤67GHz	---	±1.5dB	±2.0dB	
	H01A/B Programmable Step Attenuator Option				
		power (dBm)			
	Frequency	10~20	-10~10	-70~-10	-90~-70
	100kHz≤f≤2GHz	±0.8dB	±0.6dB	±0.7dB	±1.5dB
	2GHz<f≤20GHz	±0.8dB	±0.8dB	±0.9dB	±1.8dB
	20GHz<f≤40GHz	±1.0dB	±0.9dB	±1.0dB	±2.0dB
	40GHz<f≤50GHz	---	±1.3dB	±1.5dB	±2.5dB
50GHz<f≤67GHz	---	±1.5dB	±1.8dB	±3.0dB	
Power Resolution	0.01dB				
Power Temperature Stability	0.02dB/°C (typical value)				
Output Impedance	50Ω (Rating ³)				
VSWR (Internal fixed amplitude) (typical value)	100kHz≤f≤20GHz		<1.6		
	20GHz<f≤40GHz		<1.8		
	40GHz<f≤67GHz		<2.0		
Max. Reverse Power	0.5W (0V DC) (rating)				
Spectrum Purity⁵					
Harmonic (at +10dBm or Max. specified output power, whichever is lower)	Frequency	Standard			
	100kHz≤f≤10MHz	<-25dBc			
	10MHz<f≤2GHz	<-30dBc			
	2GHz<f≤6GHz (1465B-V)	<-30dBc			
	2GHz<f≤20GHz	<-55dBc			
20GHz<f≤67GHz	<-45dBc				
Sub-harmonic (at +10dBm or Max. specified output power, whichever is lower)	100kHz≤f≤10GHz	---			
	10GHz<f≤20GHz	<-60dBc			
	20GHz<f≤67GHz	<-45dBc			
Non-harmonic (At 0dBm, beyond 3kHz offset)	Frequency	Standard	Option H04		
	100kHz≤f≤250MHz	<-58dBc	<-58dBc		
	250MHz<f≤3.2GHz	<-74dBc	<-80dBc		
	3.2GHz<f≤10GHz	<-62dBc	<-70dBc		
	10GHz<f≤20GHz	<-56dBc	<-64dBc		
	20GHz<f≤28.5GHz	<-52dBc	<-52dBc		
	28.5GHz<f≤40GHz	<-45dBc	<-45dBc		
40GHz<f≤67GHz	<-42dBc	<-42dBc			

	Standard						
	Frequency	1Hz	10Hz	100Hz	1kHz	10kHz	100kHz
SSB phase noise (dBc/Hz, +10dBm or Max. output power, whichever is smaller)	100kHz ≤ f ≤ 250MHz	---	---	-104	-121	-128	-130
	250MHz < f ≤ 500MHz	---	---	-108	-126	-132	-136
	0.5GHz < f ≤ 1GHz	---	---	-101	-121	-130	-130
	1GHz < f ≤ 2GHz	---	---	-96	-115	-124	-124
	2GHz < f ≤ 3.2GHz	---	---	-92	-111	-120	-120
	3.2GHz < f ≤ 10GHz	---	---	-81	-101	-110	-110
	10GHz < f ≤ 20GHz	---	---	-75	-95	-104	-104
	20GHz < f ≤ 28.5GHz	---	---	-69	-89	-98	-98
	28.5GHz < f ≤ 50GHz	---	---	-64	-84	-92	-92
	50GHz < f ≤ 67GHz	---	---	-57	-77	-86	-86
	H04 Ultra Low Phase Noise Option						
	100kHz ≤ f ≤ 250MHz ⁶	-64	-92	-105	-123	-138	-141
	250MHz < f ≤ 500MHz	-67	-93	-111	-126	-138	-142
	0.5GHz < f ≤ 1GHz	-62	-91	-105	-123	-138	-138
	1GHz < f ≤ 2GHz	-57	-86	-100	-117	-133	-133
	2GHz < f ≤ 3.2GHz	-52	-81	-96	-113	-128	-128
	3.2GHz < f ≤ 10GHz	-43	-72	-85	-105	-120	-120
	10GHz < f ≤ 20GHz	-37	-66	-79	-98	-114	-114
	20GHz < f ≤ 28.5GHz	-31	-60	-73	-91	-108	-108
	28.5GHz < f ≤ 50GHz	-26	-54	-68	-85	-102	-102
50GHz < f ≤ 67GHz	-20	-48	-62	-79	-96	-96	

Modulation Properties		
Frequency Modulation (option H02A)	Maximum Frequency Deviation: $N \times 16\text{MHz}$ (N: YO harmonic number)	
	Accuracy (1kHz rate, $N \times 20\text{kHz} \leq \text{frequency deviation} < N \times 800\text{kHz}$): $\pm (3.5\% \times \text{Set frequency offset} + 20\text{Hz})$	
	Modulation Rate (3dB bandwidth, $N \times 500\text{kHz}$ frequency offset): DC~10MHz	
	Distortion (1kHz rate, $N \times 20\text{kHz} \leq \text{frequency deviation} < N \times 800\text{kHz}$): <1%	
Phase Modulation (option H02A)	Max. Phase Deviation: <ul style="list-style-type: none"> Normal mode: $N \times 16\text{rad}$ (N: YO harmonic number) Broadband mode: $N \times 1.6\text{rad}$ 	
	Accuracy (1kHz rate, $N \times 0.2\text{rad} \leq \text{phase deviation} < N \times 8\text{rad}$, normal mode): $\pm (5\% \times \text{Set phase deviation} + 0.01\text{ rad})$	
	Modulation rate (3dB bandwidth): Broadband mode DC~10MHz (typical value)	
	Distortion (1kHz rate, $N \times 0.8\text{rad} \leq \text{phase deviation} < N \times 8\text{rad}$ phase deviation, Total harmonic distortion): <1%	
Amplitude Modulation (option H02A)	Maximum depth: > 90%	
	Modulation rate (3 dB bandwidth, 30% modulation depth): DC~100kHz	
	Accuracy (1kHz modulation rate, 30% modulation depth): $\pm (6\% \times \text{Set Depth} + 1\%)$	
	Distortion (1kHz modulation rate, linear mode, Total harmonic distortion, 30% modulation depth): <1.5%	
Pulse Modulation (option H02B)	Switch Ratio	>80dB
	Rise and Fall Time	<20ns
	Min. Pulse Width With Alc On	1μs
	Min. Pulse Width With Alc Off	0.1μs
Narrow Pulse Modulation (option H02C)	Switch Ratio	>80dB
	Rise and Fall Time	<15ns(500MHz-3.2GHz)
		<10ns(>3.2GHz)
	Min. Pulse Width With Alc On	1μs
	Min. Pulse Width With Alc Off	30ns(500MHz-3.2GHz)
20ns(>3.2GHz)		

Internally Modulated Signal Generator (option H02A/B/C)	<p>There are 3 independent signals respectively for frequency/phase modulation, amplitude modulation and low frequency output signals.</p> <p>Waveform: sine, square, triangle, Sawtooth, noise, double sine, sweep sine.</p> <p>Frequency range: DC~10MHz for sine, double sine, sweep sine; 0.1Hz~100kHz for square, triangle, Sawtooth.</p> <p>Frequency resolution: 0.1Hz.</p> <p>Low frequency output: Amplitude: 0~5Vpeak(rating), to 50Ω load.</p> <p>Pulse modulation signal: pulse width: 20ns~(42s-10ns);pulse period: 100ns~42s;resolution: 10ns.</p>		
Vector Modulation Accuracy (after calibration, 25 C ±10 C) (4M sps, root Nyquist,α=0.3, QPSK, 0dBm)	1465C/D/F-V	50MHz~40GHz(or max. frequency)	EVM(RMS%)<1.4%
	1465H/L-V	50MHz~40GHz 40GHz~67GHz(or max. frequency)	EVM(RMS%)<1.4% EVM(RMS%)<2.5%
Internal Modulation Bandwidth	<p>(Carrier 900MHz, 1.8GHz, 2.4GHz, 6GHz, 18GHz, 35GHz, 50GHz)</p> <p>Standard package: 120MHz(Multitone, Tone quantity: 51, Frequency space: 2.4MHz, ±3dB bandwidth)</p> <p>H31 large modulation bandwidth option: 200MHz (Multitone, Tone quantity: 51, Frequency space: 4MHz, ±3dB bandwidth)</p> <p>H36 500MHz large modulation bandwidth option: 500MHz (Multi tone, Tone quantity: 51, ±3dB bandwidth)</p> <p>H37 1GHz large modulation bandwidth option: 1GHz (Multi tone, Tone quantity: 51, ±3dB bandwidth)</p>		
External Modulation Bandwidth	<p>(Carrier 900MHz, 1.8GHz, 2.4GHz, 6GHz, 18GHz, 35GHz, 50GHz)</p> <p>200MHz(ALC OFF, input 100mVrms sine to channel I, ±4dB bandwidth)</p>		
External Wide Modulation Bandwidth (option H33)	<p>(6GHz, 18GHz, 35GHz, 50GHz)</p> <p>2GHz(ALC OFF, input 100mVrms sine to channel I, ±4dB bandwidth)</p>		
Internal Baseband Signal Generator	<p>Channel quantities:2(I and Q)</p> <p>Max. symbol rate: standard package: 60Msps(Max. 4bit/symbol) option H31: 125Msps(Max. 4bit/symbol) option H36: 156.25Msps option H37: 312.5Msps</p> <p>Baseband waveform internal memory: standard package: 1GSa option H32: 2GSa</p> <p>Modulation format: PSK: BPSK, QPSK, OQPSK, π/4 DQPSK, D8PSK, 16PSK; QAM: 4, 16, 32, 64, 128, 256, 512, 1024; FSK: 2, 4, 8, 16; ASK; MSK; Arbitrary wave modulation.</p> <p>Dual-tone mode max. frequency offset: 200MHz</p> <p>EVM: <1.0%(typical value)(RMS%, Symbol rate 4Msps, Root Nyquist, α=0.3,QPSK)</p>		
General Properties			
RF Output Port	<p>1465C-V: N (female), impedance 50Ω.</p> <p>1465D-V: 3.5mm (male), N (female) (option H91), impedance 50Ω.</p> <p>1465F-V: 2.4mm (male), impedance 50Ω.</p>		
Dimensions	<p>W×H× D: 517mm×192mm×550mm</p>		
Weight	<p><28kg (as per model and option configuration)</p>		
Power Supply	<p>100-120VAC, 50-60Hz; or 200-240VAC, 50-60Hz (self-adaptive)</p>		
Power Consumption	<p><400W</p>		
Temperature Range	<p>Operating temperature: 0 - +50°C; storage temperature: -40 - +70°C</p>		

Notes:

1. When 1465-V series signal generator is under environment temperature for 2 hours, attenuator is automatically coupling(or ALC power>-5dBm)after 30 minutes warm-up time. The generator meets every parameter performance within given working temperature.
2. Typical value is a supplementary characteristic just for user's reference. These specifications are not guaranteed.
3. Rating value is an expected performance, or used to describe the product performance which is useful but not included in product performance warranty.
4. Spectral purity parameter is tested in a certain frequency without any modulation.
5. The single sideband phase noise of 100kHz≤f<250MHz is tested a output power of +15dBm.

■ Ordering Information

Model

Model	Name	Description
1465C-V	Vector Signal Generator	100kHz~10GHz
1465D-V	Vector Signal Generator	100kHz~20GHz
1465F-V	Vector Signal Generator	100kHz~40GHz
1465H-V	Vector Signal Generator	100kHz~50GHz
1465L-V	Vector Signal Generator	100kHz~67GHz

Standard

No.	Name	Description
1	Power Cord	Standard three core power cord
2	Qualification Certificate	/

Options

Option Model	Name	Description	Match
1465V-H01A	115dB programmable step attenuator	To expand output power dynamic range	Optional for C/D/F-V
1465V-H01B	90dB programmable step attenuator	To expand output power dynamic range	Optional for H/L-V
1465V-H02A	Analog modulation	Add analog modulation function	Optional for all models
1465V-H02B	Pulse modulation	Add pulse modulation function,100ns min. pulse width	Optional for all models
1465V-H02C	Narrow Pulse modulation	Add pulse modulation function,20ns min. pulse width	Optional for all models,including H02B
1465V-H03	Analog sweep frequency	Add analog sweep frequency function(slope sweep)	Optional for all models
1465V-H04	Ultra-low phase noise	Optimize phase noise,10GHz@10kHz:-120dBc/Hz	Optional for all models
1465V-H05	Large power output	Improve max. output power	Optional for all models
1465V-H31	Large modulation bandwidth	Expand internal modulation bandwidth to 200MHz	Optional for all models
1465V-H32	Internal baseband large capacity memory	Expand internal baseband memory to 8GB	Optional for all models
1465V-H33	Wideband external IQ input	Add wideband external IQ input function	Optional for C/D/F-V
1465V-H35	High-speed external baseband data input (optical port)	Support external arbitrary wave baseband data real-time import through optical fiber interface, a total of 4 optical fiber interfaces	Optional for C/D/F/H/L-V
1465V-H36	500MHz Large modulation bandwidth	The internal modulation bandwidth is expanded to 500MHz	Optional for all models
1465V-H37	1GHz Large modulation bandwidth	The internal modulation bandwidth is expanded to 1GHz	Optional for all models
1465V-H80	87230 USB power sensor	For power measurement and calibration(50MHz-6GHz)	Optional for all models
1465V-H81	87231 USB power sensor	For power measurement and calibration(50MHz-18GHz)	Optional for all models
1465V-H82	87232 USB power sensor	For power measurement and calibration(50MHz-26.5GHz)	Optional for all models
1465V-H83	87233 USB power sensor	For power measurement and calibration(50MHz-40GHz)	Optional for all models
1465V-H90	GJB EMC	Meet GJB-151A EMC regulation(without touch screen function)	Optional for all models
1465V-H91	N type RF output interface	Change RF output port to N type (female),only optional for 1465VD-V	Optional for D-V
1465V-H92	Rear panel RF output	Move RF output port to rear panel	Optional for all models
1465V-H94	Rack mount kit	Mount kit for rack	Optional for all models
1465V-H95	Commercial calibration certificate	Entrust metering institute to meter the instrument	Optional for all models
1465V-H97	Color printing user manual	User manual and programming manual are color printed	Optional for all models

Option Model	Name	Description	Match
1465V-H98	English options	Panel, software interface, user manual and programming manual are English version	Optional for all models
1465V-H99	Aluminum alloy transport case	High-intensity portable aluminum alloy transport case, with carrying handle and omni-directional wheel, convenient for transportation	Optional for all models
1465V-S01	Arbitrary wave	Support arbitrary wave data download and playback, baseband signal generation or signal playback	Optional for all models
1465V-S02	Linear frequency modulation (LFM)	Support intra-pulse linear frequency modulation function	Optional for all models
1465V-S03	Gaussian white noise	Support pure noise generation, additive noise and continuous wave interference function	Optional for all models
1465V-S04	Dynamic fading	Support general fading simulation and aviation channel dynamic fading simulation	Optional for all models, must choose 1465V-S01 option
1465V-S05	Radar signal simulation	Simulate various system radar radiation signals, echo signals, clutter signals and various deceptive and suppressed interference, with hierarchical multi-radar simulation scene management function	Optional for all models, must choose 1465V-S01 option, the software can be installed on the computer
1465V-S10	Complex pulse sequence	Extend the pulse generation style. Support the generation of complex pulse sequences such as double pulse, multi-pulse, PRF staggering, PRF jitter, and PRF slip.	Optional for all models, must choose H02B or H02C option



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