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USG3000M Series RF Signal Generators

Data Sheet

V 1.0

September 2024

USG3000M Series RF Signal Generators

Main Features

- Maximum frequency: 4.5 GHz/6.5 GHz
- Output frequency resolution: 0.001 Hz
- Level range: -135 dBm to 25 dBm
- High signal purity, phase noise: < -122 dBc/Hz @ 1 GHz, offset 20 kHz (Typ.)
- Amplitude accuracy: ≤ 0.7 dB (Typ.)
- Supports analog modulation: AM, FM, and ΦM

  Various modulation modes: Internal, external, and internal + external
- Equipped with a highly stable clock source
- Built-in 50 MHz function/arbitrary waveform generator
- Power meter kit: Power measurement, power output control, and line loss calibration (Option)
- Pulse modulation: On-off ratio of up to 80 dB and customizable pulse trains (Option)
- Narrow pulse modulation: Minimum pulse width of 20 ns with resolution of 10 ns (Option)

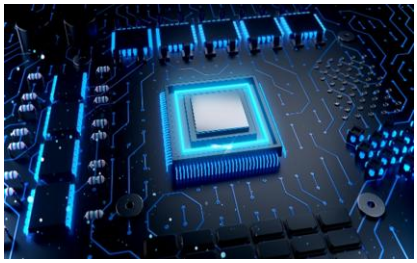
USG3000M series RF signal generators deliver high-quality signals, precise signal levels, and an ultra-wide output power range, meeting the demanding testing needs of wireless communication, aerospace, automotive electronics, industrial manufacturing, semiconductor, and research and education industries.

Wireless Communication

Aerospace

Industrial Manufacturing

Automotive Electronics



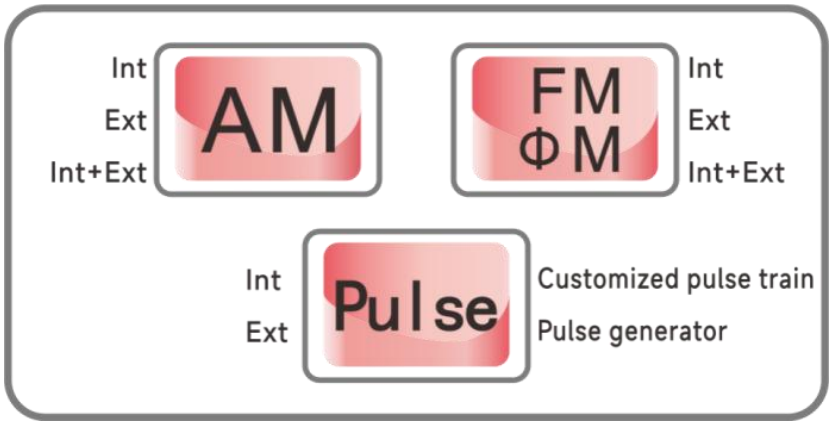
Semiconductor

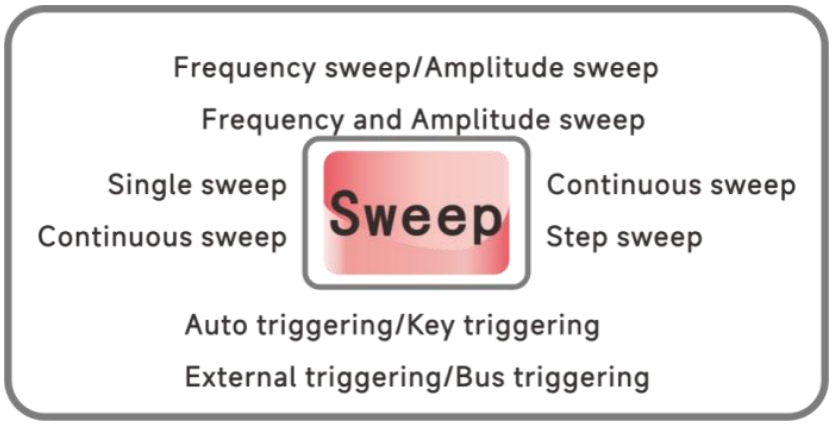
Research and Education

Technical Advantages

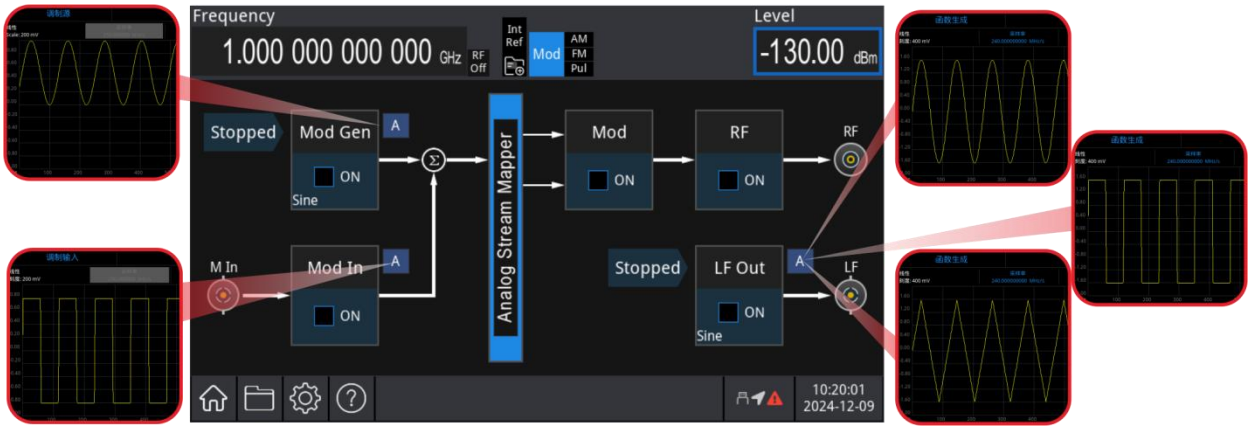
High Performance

- **Precision Signal Output:** Delivering ultra-low phase noise and high-power output, the USG3000M series ensures consistent, reliable performance for advanced testing scenarios.
- **Flexible Modulation Capability:** Support for AM, FM, ΦM, and pulse modulation enables seamless integration into varied applications. Researchers can design and deploy custom pulse trains to meet specific experimental requirements.
- **Comprehensive Sweep Modes:** Frequency, amplitude, and list sweeps, with user-defined configurations, streamline testing processes for complex and dynamic environments.

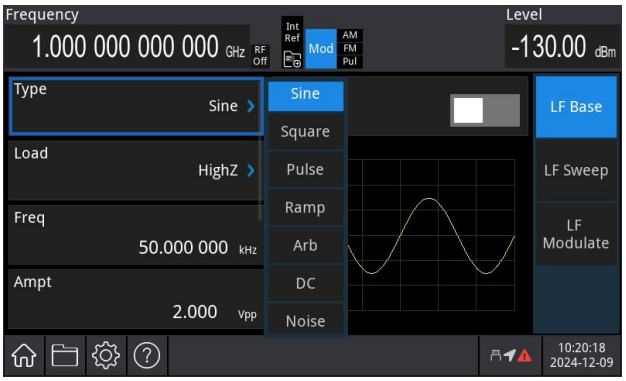


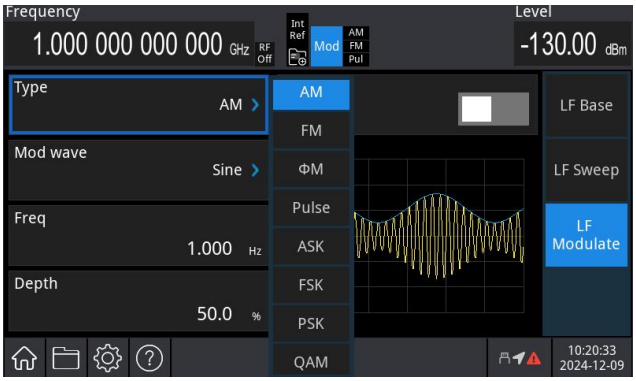


USG3000M features an easy human-computer interface with a flat design. It allows intuitive display of both input and output waveforms, and users can switch between time-domain and frequency-domain waveforms seamlessly.



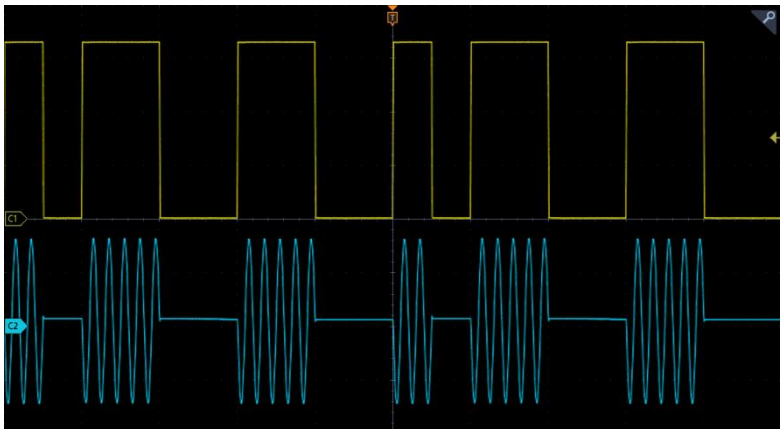
USG3000M is equipped with a function signal generator that supports standard waves, sweep, and modulation.





High-precision Pulse Generator (Option)

USG3000M series features a stable clock source and offers optional pulse modulation and a narrow pulse generator. It delivers a minimum pulse width of 20 ns with a resolution of 10 ns, meeting the requirements of automotive millimeter-wave radar systems.



Convenient Operation

USG3000M series features a touch screen and supports control via LAN, USB, and GPIB ports. Users can also remotely log in and control the instrument using Web Control software or send SCPI commands for automated control.

1. Touch Screen

USG3000M offers a human-computer interaction system with full touch control. All functions, except for the power switch, can be operated via the touch interface.

2. Power Meter Kit

The power meter kit connects to the instrument via the front panel USB port, enabling power measurement, power output control, and line loss calibration.

3. LAN and USB Port (Option GPIB)

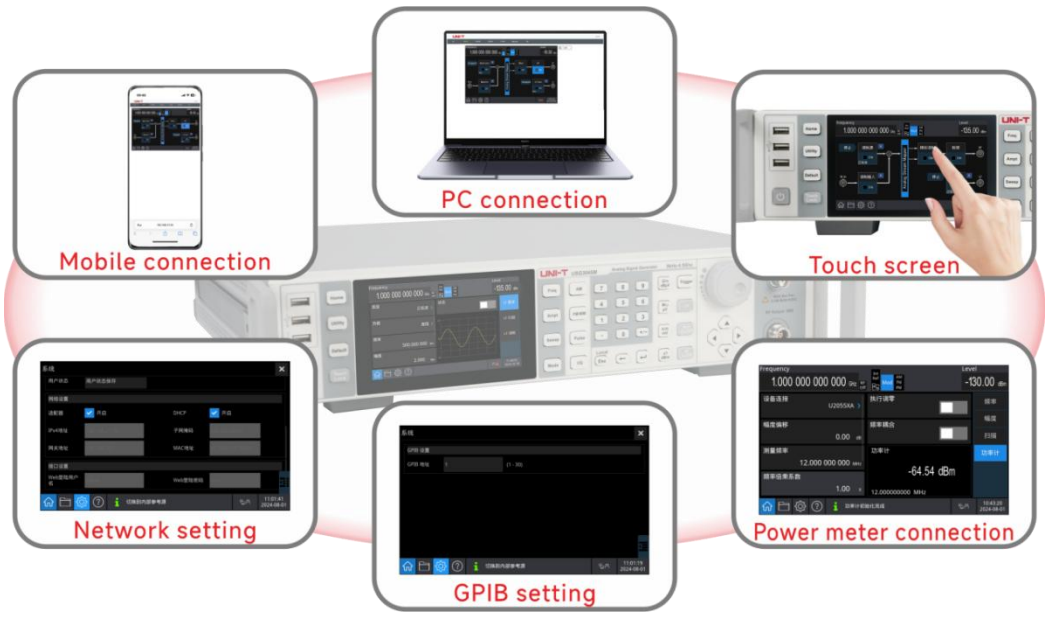
USG3000M can be controlled via the LAN, USB, and GPIB ports on the rear panel, either by sending commands directly or through host computer control. It supports the standard SCPI command set, enabling remote operation through these ports. Additionally, users can employ programming tools like Excel and LabVIEW to automate batch command execution, meeting diverse automated testing requirements.

4. Web Control

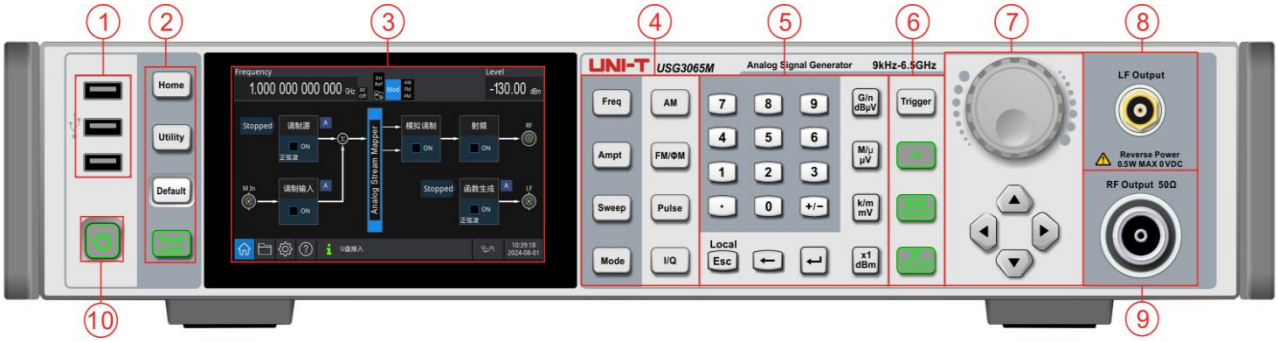
Users can access the Web Control page by entering the IP address of the USG3000M into a web browser's address bar. The page supports connections from both PC and mobile devices.

5. Device Manager (V2.5.0 and higher)

UNI-T offers free instrument management software for device control. By installing device manager on a PC, users can manage the instrument via LAN (VXI-11, Socket), USB Device (USB-TMC), or GPIB.

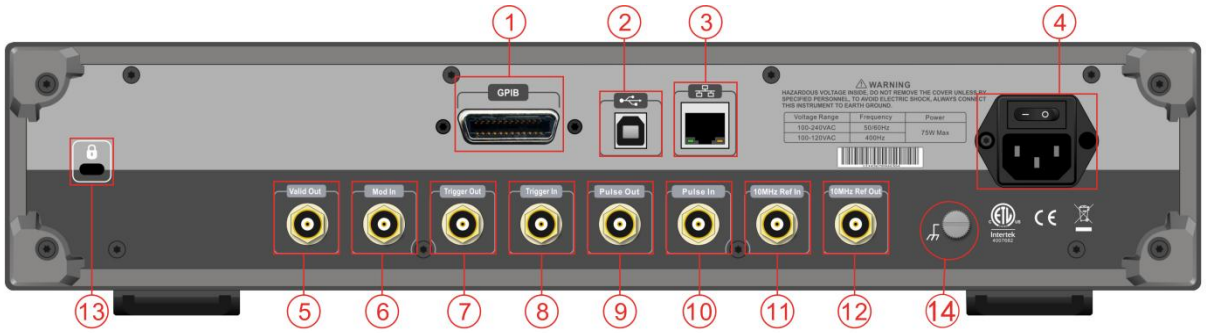


USG3000M Panel Overview



Front Panel

No.	Description	No.	Description
1	USB Host	2	Auxiliary function key
3	Touch display	4	Function menu keys
5	Numeric keypad	6	Output control key
7	Multi-function rotary knob Arrow keys	8	LF output terminal
9	RF output terminal	10	Power switch



Rear Panel

No.	Description	No.	Description
1	GPIB port (Option)	2	USB port
3	LAN port	4	Main power switch AC power supply
5	Signal Out	6	Mod In (Analog modulation input)
7	Trigger Out	8	Trigger In
9	Pulse Out (Pulse signal output)	10	Pulse In (Pulse signal input)
11	10MHz Ref In (Reference input)	12	10MHz Ref Out (Reference output)
13	Safety lock	14	Ground terminal

Technical Specification

Definitions:

- "**Technical Specification**" provides a detailed description of the parametric performance that is covered by the product warranty. Unless otherwise stated, these specifications are valid within a temperature range of 20°C to 30°C.
- **"Typical Value (Typ.)"** refers to performance data that is not covered in the product warranty. It represents the usual performance under standard conditions but does not guarantee adherence to specific performance metrics. When performance exceeds these typical values, 80% of the units are expected to demonstrate the specified performance with a 95% confidence level, within the 20°C to 30°C temperature range. It is important to note that measurement uncertainties are not included in the typical performance values.
- **"Nominal Value (Nom.)"** describes the expected mean or average performance of the product, which is useful in product applications but is not covered under the product warranty.

Conditions:

To meet these specifications, the instrument should first meet the following conditions.

- The instrument must be warmed up for at least 30min within the calibration period.
- If the instrument is stored in an environment that is within the allowable storage temperature range but outside the allowable operating temperature range, it must be allowed to acclimate to the allowable operating temperature range for at least two hours before being powered on.

Product Function and Model Comparison Table

	USG3045M	USG3045M-P	USG3065M	USG3065M-P
RF output	●	●	●	●
LF output	●	●	●	●
High stability clock source	●	●	●	●
Pulse modulation	○	○	○	○
Narrow pulse generator	○	○	○	○
Mechanical attenuator	×	●	×	●
Power meter kit	○	○	○	○
GPIB port	○	○	○	○
I/Q Mode	×	×	×	×

Note: ● standard ○ option × Not Available

Frequency Specifications

Frequency Range		
Model	USG3045M/USG3045M-P	USG3065M/USG3065M-P
Frequency range	9 kHz to 4.5 GHz	9 kHz to 6.5 GHz
Resolution	0.001 Hz	
Phase Offset	Step of 0.1°	
Frequency Band		
Band	Frequency range	N
1	9 kHz ≤ f≤ 5 MHz	Digital synthesis
2	5 MHz < f ≤ 137.5 MHz	0.0625
3	137.5 MHz < f ≤ 250 MHz	0.125
4	250 MHz < f ≤ 468.75 MHz	0.03125
5	468.75 MHz < f < 937.5 MHz	0.0625
6	937.5 MHz ≤f <1875 MHz	0.125
7	1875 MHz ≤ f ≤ 375 0MHz	0.25
8	3750 MHz < f ≤ 6500 MHz	0.5
Note: N indicates a factor used to define certain specifications in this document.		
Internal Reference Frequency		
Accuracy	± (Time since last adjustment x Aging rate)	
	± Temperature effects	
	± Line voltage effects	
	± Calibration accuracy	
Oscillator aging rate	≤ ± 0.2 ppm/year	
Initial calibration accuracy	≤ ± 40 ppb	
Adjustment resolution	± 1 ppb	
Temperature effects	≤ ± 10 ppb	
Line voltage effects	≤ ± 10.0 ppb	
Reference Output		
Frequency	10 MHz	
Amplitude	≥ 0 dBm (Nom.), 50 Ω	
External Reference Input		
Input frequency	10 MHz	
Stability	Follows the stability of external reference input signal	
Sync range	± 10 ppm	
Amplitude	0 dBm to +20 dBm (Nom.)	

Impedance	50 Ω (Nom.)
Waveform	Sine wave, square wave
Sweep Mode (Frequency and Amplitude)	
Operating mode	Step sweep, list sweep
Sweep range	Within instrument frequency range
Dwell time	100 μs to 100 s
Number of points	2 to 65535 (Step sweep)
	1 to 500 (List sweep)
Step change	Linear or logarithmic
Triggering mode	Free-running, external, key, bus (LAN, USB, GPIB)
Frequency Switching Speed **The time elapsed from the receipt of the SCPI command or trigger signal until the amplitude stabilizes within 0.2 dB.**	
	Continuous Wave (CW) Mode
SCPI mode	≤ 40 ms
List/step sweep mode	≤ 40 ms

Level Specification

ALC (Automatic Level Control) Mode

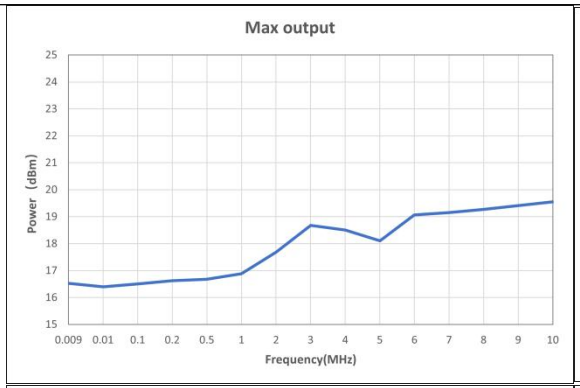
USG3000M series includes three ALC operating modes.

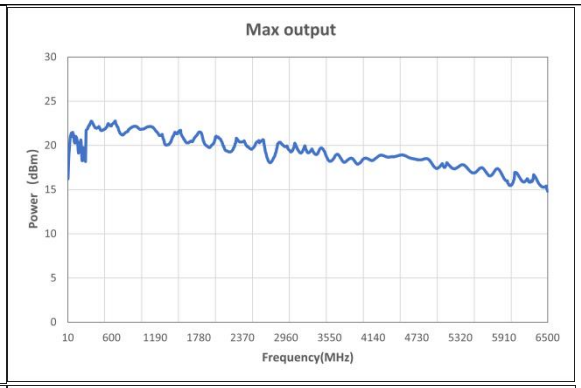
ALC Auto: Automatically sets the optimum ALC mode based on the current operating state.

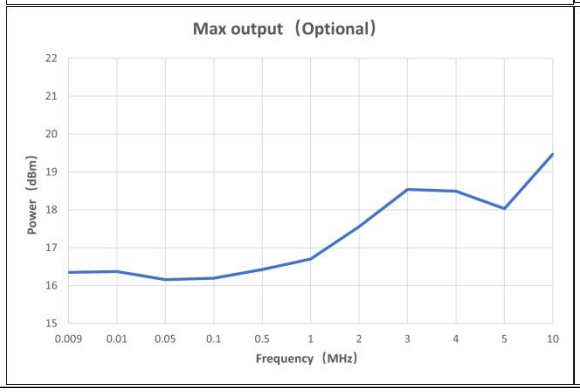
ALC On: When level control is in a closed-loop state, it is suitable for continuous wave (CW), frequency modulation (FM), and phase modulation (ΦM).

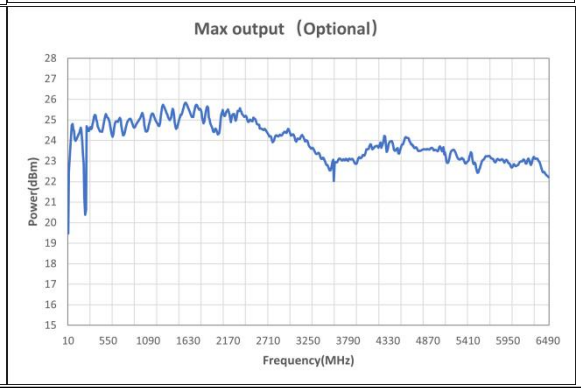
ALC S&H (Off): When frequency or amplitude changes, the level control is initially set to closed-loop. Then, the sampling control voltage is applied to retain the control voltage. When ALC is automatic, amplitude modulation, or pulse modulation can be operated in this state.

Output Parameter		
Settable range	-135 dBm to + 25 dBm	
Resolution	0.01 dB	
Step attenuator (Option)	0 to 110 dB, step of 10 dB	
Maximum Output Power		
Frequency	Electronic attenuator	Mechanical attenuator
9 kHz to 5MHz	+ 13 dBm	+ 15 dBm
> 5 MHz to 250 MHz	+ 14 dBm	+ 20 dBm
> 250 MHz to 1.2 GHz	+ 20 dBm	+ 24 dBm
> 1.2 GHz to 3.6 GHz	+ 18 dBm	+ 22 dBm
> 3.6 GHz to 6.5 GHz	+ 15 dBm	+ 20 dBm





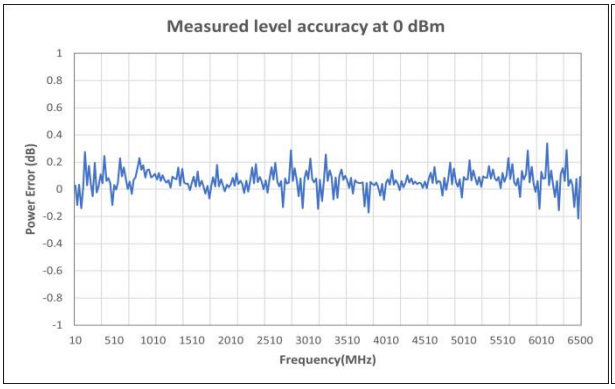


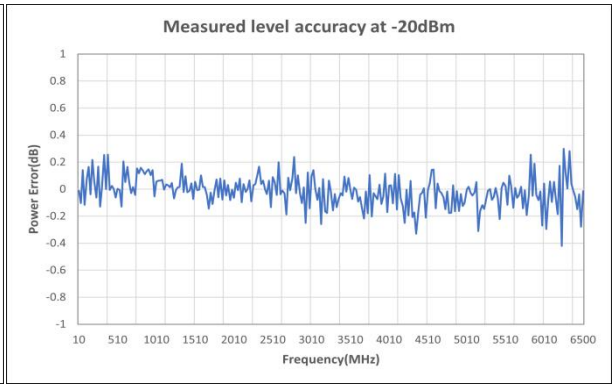


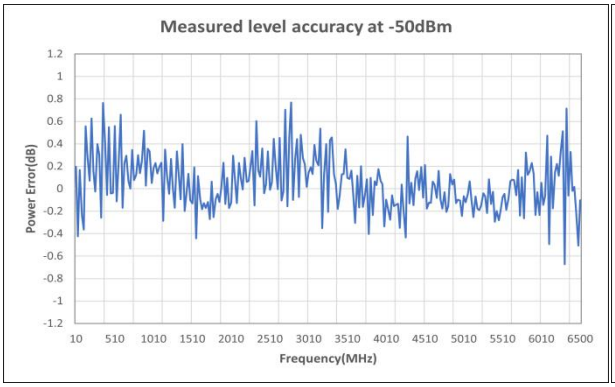
Absolute Level Accuracy in CW Mode (ALC on, Typ.)

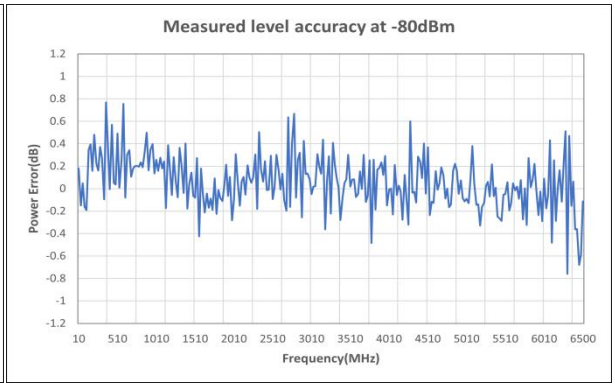
1. Quoted specifications between 20 °C and 30 °C. For temperatures outside this range, absolute level accuracy decreased by 0.01 dB/°C.
2. Output power may drift up to 0.10 dB < 3 GHz and 0.15 dB > 3 GHz per g/kg change in absolute humidity (Nom.).

Range	+10 dBm to −20 dBm	< −20 to −110 dBm	<−110 to −130 dBm
9 kHz to 100 kHz	± 0.7 dB	± 0.7 dB	± 1.0 dB
>100 kHz to 5MHz	± 0.7 dB	± 0.7 dB	± 1.0 dB
>5 MHz to 3 GHz	± 0.7 dB	± 0.9 dB	± 1.2 dB
>3 GHz to 6.5 GHz	± 0.7 dB	± 1.1 dB	± 1.5 dB









SWR (Standing-wave Ratio) in CW Mode

Range	Attenuator State		
	Undamped	0 to 10dB	Above 15 dB
≤1.0GHz	<1.8: 1	<1.6: 1	<1.5: 1
>1.0 to 6.5 GHz	<1.8: 1	<1.6: 1	<1.5: 1

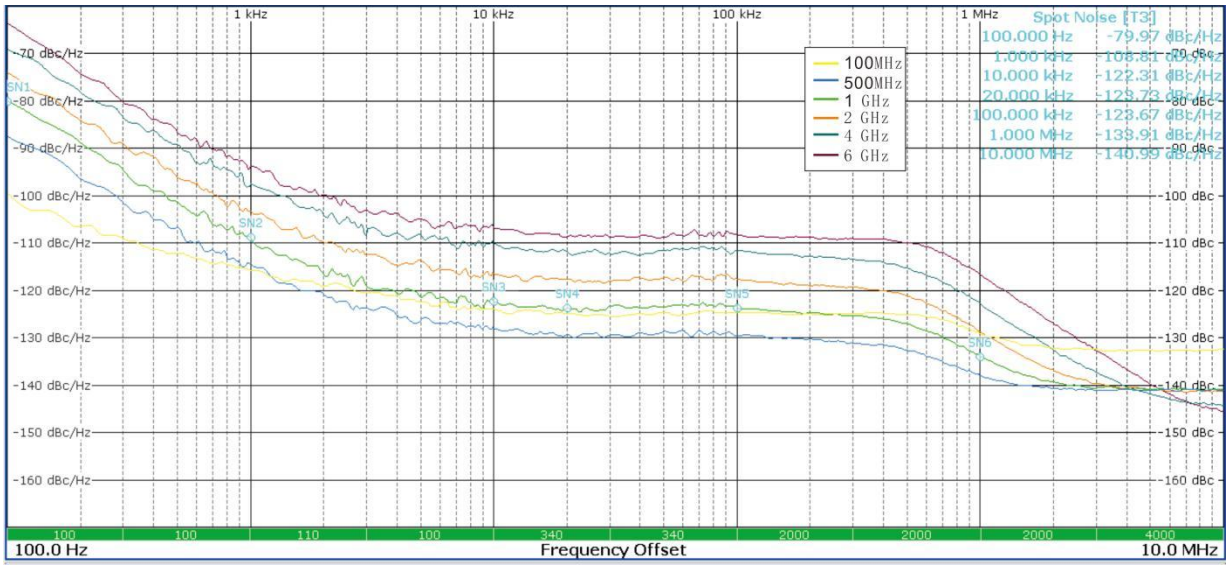
Maximum Reverse Power (Nom.)

<1 GHz	0 dBm
>1 GHz to 2 GHz	25 dBm
>2 GHz to 6.5 GHz	25 dBm
Maximum DC voltage	0 VDC

Trip level	25 dBm
Amplitude Switching Speed **The time elapsed from the receipt of the SCPI command or trigger signal until the amplitude stabilizes within 0.2 dB.**	
	CW Mode
SCPI mode	≤ 40 ms
List/step sweep mode	≤ 40 ms

Spectral Purity Specifications

SSB (Single Side Band) Phase Noise [dBc/Hz, CW, at 20 kHz offset (Typ.)]	
5 MHz to < 250 MHz	-125 dBc/Hz
500 MHz	-128 dBc/Hz
1 GHz	-122 dBc/Hz
4 GHz	-112 dBc/Hz



Residual FM (CW mode, 300 Hz to 3 kHz BW, CCITT, rms)	
5 MHz to 6.5 GHz	< N × 3 Hz (measured value), see N value in frequency table
Residual AM (CW mode, 300 Hz to 3 kHz BW, rms, 0 dBm)	
100 kHz to 6.5 GHz	< 0.01% (measured value)
Harmonics (CW Mode)	
Range	Output Amplitude 0 dBm
9 kHz to 10 MHz	≤ -40 dBc
> 10 MHz to 1 GHz	≤ -50 dBc
> 1 GHz to 4.5 GHz	≤ -40 dBc
> 4.5 GHz to 6.5 GHz	≤ -35 dBc
Non-harmonics (CW Mode)	
Range	> 10 kHz offset

9 kHz to < 5 MHz	-75 dBc (Nom.)
5 MHz to < 250 MHz	-60 dBc
250 MHz to < 6.5 GHz	-65 dBc
Sub-harmonics (CW Mode)	
9 kHz to 6.5 GHz	None

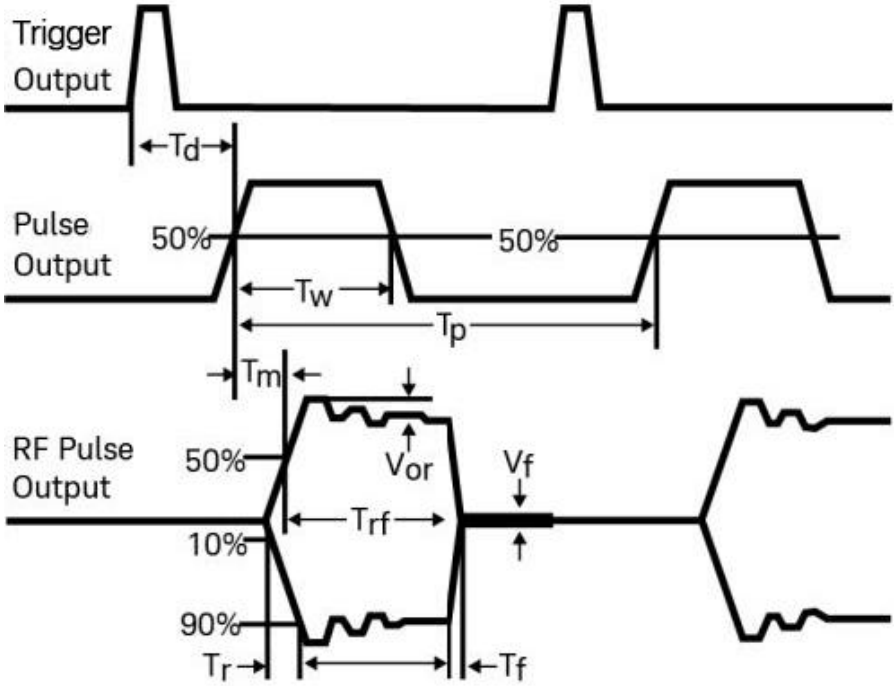
Analog Modulation Specifications

Frequency Band		
Band No.	Frequency range	N
1	9 kHz ≤ f ≤ 5 MHz	Digital synthesis
2	5 MHz < f≤ 137.5 MHz	0.0625
3	137.5 MHz < f ≤ 250 MHz	0.125
4	250 MHz < f≤ 468.75 MHz	0.03125
5	468.75 MHz < f < 937.5 MHz	0.0625
6	937.5 MHz ≤ f < 1875 MHz	0.125
7	1875 MHz ≤ f ≤ 3750 MHz	0.25
8	3750 MHz < f ≤ 6500 MHz	0.5
FM (Frequency Modulation)		
Modulation source	Internal, external, internal + external	
Maximum offset	N × 10 MHz (Nom.), see N value mentioned above	
Resolution	0.001 Hz	
Offset accuracy	< ± 2% + 20 Hz (1 kHz rate, offset is N × 50 kHz)	
Modulation frequency respond	< 3 dB	0.001 Hz to 50 kHz (Nom.)
Carrier frequency accuracy	< ± 0.2% × set offset + (N ×1 Hz)	
THD (Total harmonic distortion)	< 0.4% (1 kHz rate, offset is N × 50 kHz)	
FM external modulation input	Sensitivity	+ 1 V peak for offset indication (Nom.)
	Input impedance	50 Ω
	Path	FM summed internally for composite modulation
ΦM (Phase Modulation)		
Modulation source	Internal, external, internal + external	
Maximum offset	N × 5 rad (Nom.)	
Modulation frequency	3 dB bandwidth	0.001 Hz to 50 kHz (Nom.)

respond		
Resolution	0.01 rad/0.1 deg	
Offset accuracy	< + 0.5% + 0.01 rad [1 kHz rate (Typ.)]	
THD	< 0.2% [1 kHz rate (Typ.)]	
ΦM external modulation input	Sensitivity	+ 1 V peak for offset indication (Nom.)
	Input impedance	50 Ω (Nom.)
	Path	ΦM summed internally for composite modulation
AM (Amplitude Modulation)		
Modulation source	Internal, external, internal + external	
Modulation depth	0% to 99%	
Resolution	0.1%	
AM depth error 1 kHz frequency sum < 80% modulation depth	f < 5 MHz	< 1.5% of set value+1% (Typ., 0.5% + 1% of set value)
	5 MHz ≤ f ≤ 2 GHz	< 3%+1% of set value
	2 GHz < f < 3 GHz	< 5%+1% of set value (Typ., 3%+1% of set value)
	3 GHz < f < 6.5 GHz	(Typ., 4%+1% of set value)
THD (1 kHz frequency)	f < 5 MHz	30% depth, < 0.25% (Typ.)
		80% depth, < 0.5% (Typ.)
	5 MHz ≤ f < 2 GHz (Typ., 2 GHz to 3 GHz)	30% depth, < 2%
		80% depth, <2%
Modulation frequency respond	30% depth, 3 dB bandwidth	0.001 Hz to 50 kHz
AM external modulation input	Sensitivity	+ 1 V peak for offset indication (Nom.)
	Input impedance	50 Ω (Nom.)
	Path	AM summed internally for composite modulation
Pulse Modulation (Option)		
Mode	Free-Run, Square, Ext Triggered, Adjustable Doublet, Ext Trigger Doublet, Gated, Ext Pulse, Pulse Train	
Modulation source	Internal, external	
On-off ratio	1 MHz < f ≤ 6.5 GHz	≥ 80 dBc (Typ.)
Rising/falling time (10%/90%)	< 20 ns (Typ.)	
Minimum pulse width	100 μs to (Pulse period -1 μs)	
Pulse period	Pulse width +1 μs to 42 s	

Resolution	1 μs
Adjustable delay	Free-run: 0 to (Period – Pulse width -1 μs)
	Trigger: 1 μs to (Maximum pulse period-1 μs)
Level accuracy	< ± 0.5 dB (Relative to CW)
Width compression	≤ 10 ns (Relative to RF width of pulse output)
Video feed-through	≤ 50 mV
External pulse input delay	500 ns (Nom.), external input to pulse output terminal
Radio-frequency delay	50 ns (Nom.), pulse input to RF output
Pulse overshoot	≤ 20%
Input level	+ 1 Vpeak = RF on 50 Ω (Nom.)

Td: Video delay (variable)
Tw: Video pulse width (variable)
Tp: Pulse period (variable)
Tm: RF delay
Trf: RF pulse width
Tf: RF pulse falling time
Tr: RF pulse rising time
Vor: Pulse overshoot
Vf: Video feed-through



Narrow Pulse Generator (Option)	
Pulse period	40 ns to 42 s
Pulse width	20 ns to (Pulse period -20 ns)
Resolution	10 ns
Adjustable delay	Free-running: 0 to (Period – Pulse width -20 ns)
	Trigger: 20 ns to (Maximum pulse period -20 ns)
Simultaneous and Composite Modulation	
Simultaneous modulation	All modulation types (FM, AM, ΦM, and PM) may be simultaneously enabled, except that FM and phase modulation cannot be combined. Additionally, two modulation types cannot be simultaneously generated using the same modulation source.
Composite modulation	AM, FM, and ΦMeach consist of two modulation paths which are

summed internally for composite modulation; modulation can be any combination of internal or external sources.

Modulation Type	AM	FM	ΦM	PM
AM	---	●	●	●
FM	●	---	×	●
ΦM	●	×	---	●
PM	●	●	●	---

● Compatible; × Incompatible

External Modulation Input		
Mod In	AM, FM, ΦM (50Ω)	
Pulse Out/In	PM (50Ω)	
Internal Function Generator (LF)		
Waveform	Sine, Square, Pulse, Triangular, Arbitrary, DC, Noise	
Frequency range	Sine wave	0.001 Hz to 50 MHz
	Square, pulse, arbitrary waves	0.001 Hz to 15 MHz
	Triangular wave	0.001 Hz to 3 MHz
Frequency resolution	0.001 Hz (Nom.)	
Frequency accuracy	Same as RF reference source (Nom.)	
LF output amplitude	1 mVpp to 2 Vpp, 50 Ω	
Accuracy	Typ. (1 kHz sine wave, 0 V offset, >10 mVpp)	± (1% of set value +1 mVpp)
DC offset accuracy	± 1% of offset set value ± 0.5% ± 2 mV of amplitude set value	
Flatness	Typ. (1 kHz sine wave, 1 Vpp)	≤ 100 kHz: ± 0.2 dB
		≤ 20 MHz: ± 0.4 dB
		≤ 40 MHz: ± 0.6 dB
		≤ 50 MHz: ± 0.8 dB
LF Frequency Sweep		
Sweep mode	Linear, logarithmic, step	
Sweep shape	Positive/negative sawtooth, positive/negative triangular	
Sweep time	1 ms to 500 s	
Sweep frequency range	0.001 Hz to 50 MHz	
Trigger input	Auto, key trigger, external trigger, bus trigger	
Trigger output	Off, rising edge, falling edge	
LF Modulation		
Modulation mode	AM, FM, ΦM, Pulse, ASK, FSK, PSK, QAM	

Modulation frequency	0.002 Hz to 5 MHz
Modulation wave	Sine, square, triangular, arbitrary waves
Carrier type	Sine, square, pulse, triangular, arbitrary waves
AM depth	0.00% to 120.00%
FM frequency offset	DC to 25 MHz
ΦM phase Offset	0.00° to 360.00°
Pulse duty ratio	0.00 to 100.00%
ASK data pattern	PN7, PN9, PN11, PN17, PN19, PN21, PN23, PN25
FSK mode	2FSK, 4FSK
PSK mode	2PSK, 4PSK
QAM mode	QAM4, QAM8, QAM16, QAM32, QAM64, QAM128, QAM256

Input and Output Terminal

Connector on Front Panel	
RF output	N-type female header, 50 Ω
Internal function generator LF output	BNC female header, 50 Ω
Connector on Rear Panel	
Trigger In	BNC female header, high resistance (Nom.), TTL (Supports multiple level input)
Trigger Out	BNC female header, LVTTL
Mod In (Analog modulation input)	BNC female header, 50 Ω (Nom.), ± 1 V
Pulse input	BNC female header, 50 Ω (Nom.), (Input amplitude > 1 V)
Pulse output	BNC female header, 50 Ω (Nom.), (Input amplitude > 1 V)
10MHz Ref In	BNC female header, 50 Ω (Nom.), 0 dBm to +20 dBm
10MHz Ref Out	BNC female header, 50 Ω (Nom.), > 0 dBm
Signal Out	BNC female header, LVTTL
Communication Port	
USB-HOST	USB-A 2.0
USB-DEVICE	USB-B 2.0
LAN	LAN (VXI-11,10/100/1000 Base, RJ-45)
GPIB	GPIB IEEE-488.2

General Specifications

Power Supply		
Power voltage	100 to 240 VAC (Fluctuation: ±10%), 50 Hz/60 Hz 100 to 120 VAC (Fluctuation: ±10%) , 400 Hz	
Power consumption	Less than 50 W	
Display screen		
Display type	5-inch capacitive multi-touch panel	
Display resolution	800×480	
Environmental Requirements		
Temperature range	Operating: +10°C to +40°C	
	Non-operating: -20°C to +60°C	
Cooling	Fan-forced cooling	
Humidity	Below +35°C: ≤ 90% RH.	
	+35°C to +40°C: ≤ 60% RH.	
Altitude	Operating: Below 2,000 meters	
	Non-operating: Below 15,000 meters	
Pollution degree	2	
Operating environment	For indoor use only	
Machine Specifications		
Dimension	426mm×88mm×400mm (H×W×L), not including protective part	
Weight	＜20 kg	
Calibration period	One year	
Regulatory Requirement		
Electromagnetic compatibility	Compliant with EMC (2014/30/EU); compliant with or superior to IEC 61326-1:2021/EN61326-1:2021, IEC 61326-2-1:2021/EN61326-2-1:2021	
Conducted emission	CISPR 11/EN 55011	CLASS B group 1, 150 kHz-30 MHz
radiation disturbance	CISPR 11/EN 55011	CLASS B group 1, 30 MHz-1 GHz
Electro-static discharge (ESD)	IEC 61000-4-2/EN 61000-4-2	4.0 kV (Contact), 8.0 kV (Air)
Radio frequency electromagnetic field immunity	IEC 61000-4-3/EN 61000-4-3	0 V/m (80 MHz to 1 GHz) 3 V/m (1.4 GHz to 2 GHz) 1 V/m (2.0 GHz to 2.7 GHz)
Electrical fast transient (EFT)	IEC 61000-4-4/EN 61000-4-4	2 kV (AC input port)
Surge	IEC 61000-4-5/EN 61000-4-5	1 kV (Live line to zero line) 2 kV (Live/zero line to ground)

RF continuous conduction immunity	IEC 61000-4-6/EN 61000-4-6	3 V, 0.15-80 MHz
Voltage dips and short interruptions	IEC 61000-4-11/EN 61000-4-11	Voltage dips: 0% UT during 1 cycle 40% UT during 10/12 cycles 70% UT during 25/30 cycles Short interruptions: 0% UT during 250/300 cycles
Safety Regulation		
	EN 61010-1:2010+A1:2019 EN IEC61010-2-030:2021+A11:2021 UL 61010-1:2012 Ed.3+ R:19 Jul2019 UL 61010-2-030:2018 Ed.2 CSA C22.2#61010-1:2012 Ed.3+U1; U2; A1 CSA C22.2#61010-2-030:2018 Ed.2	

Order Information and Warranty Period

	Description		Order No.
Model	RF signal generator, frequency 9 kHz to 4.5 GHz		USG3045M
	RF signal generator, frequency 9 kHz to 4.5 GHz Mechanical attenuator		USG3045M-P
	RF signal generator, frequency 9 kHz to 6.5 GHz		USG3065M
	RF signal generator, frequency 9 kHz to 6.5 GHz Mechanical attenuator		USG3065M-P
Accessory	Compliant with the host country's standards Power cord x1		
	USB data cable x1		UT-D14
Accessory (Option)	SMAJ-NJ-0.7M DC-6G cord x1		UT-W02-6GHz
	NJ-NJ-0.7M DC-6G cord x1		UT-W01-6GHz
	Adapter SMA-N-KJ-T DC-6GHz x2		UT-C01-6GHz
	Adapter N-BNC-JK DC-4GHz x2		UT-C02-4GHz
	Accessories pouch		UT-CK01
Option	Pulse modulation	Pulse modulation	USG3000M-PM
		Narrow pulse generator	USG3000M-PG
	Power meter kit		USG3000M-PK
	GPIB port		USG3000M-GPIB

Options ordering and installation

1. Purchase options: Based on your requirements, please purchase the specified function options from UNI-T Sales Personnel and provide the serial number of the instrument that needs the option installed.
2. Receive certificate: You will receive the license certificate based on the address provided in the order.
3. Register and obtain license: Visit the UNI-T official website license activation session for registration. Use the license key and instrument serial number provided in the certificate to obtain the option license code and license file.
4. Install the option: Download the option license file to the root directory of a USB storage device and connect the USB storage device to the instrument. Once the USB storage device is recognized, the Option Install menu will be activated. Press this menu key to begin installing the option.

Limited Warranty and Liability

UNI-T guarantees that the Instrument product is free from any defect in material and workmanship within three years from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination, or improper handling. If you need a warranty service within the warranty period, please contact your seller directly. UNI-T will not be responsible for any special, indirect, incidental, or subsequent damage or loss caused by using this device. For the probes and accessories, the warranty period is one year. Visit instrument.uni-trend.com for full warranty information.

Learn more at: www.uni-trend.com

Register your product to confirm your ownership. You will also get product notifications, update alerts, exclusive offers and all the latest information you need to know.

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https://instruments.uni-trend.com/ContactForm

Headquarter

UNI-TREND TECHNOLOGY (CHINA) CO., Ltd.

Address: No.6, Industrial North 1st Road, Songshan Lake Park, Dongguan City, Guangdong Province, China

Tel: (86-769) 8572 3888

Europe

UNI-TREND TECHNOLOGY EU GmbH

Address: Affinger Str. 12

86167 Augsburg Germany

Tel: +49 (0)821 8879980

North America

UNI-TREND TECHNOLOGY US INC.

Address: 3171 Mercer Ave STE 104, Bellingham, WA 98225

Tel: +1-888-668-8648

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