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## **USG3000M/5000M Series RF Analog Signal Generators**

### **Quick Guide**

**This document applies to the following models:**

**USG3000M series**

**USG5000M series**

**V1.0 November 2024**

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## **Instructions Manual**

This manual outlines the safety requirements, installment and the operation of USG5000 series RF analog signal generator.

### **1.1 Inspecting Packaging and List**

When you receive the instrument, please check the packaging and list by the following steps.

- Check whether the packing box and padding material have been compressed or damaged by external forces and inspect the appearance of the instrument. If you have any questions about the product or need consulting services, please contact the

distributor or local office.

- Carefully take out the article and check it with the packing instructions.

## **1.2 Safety Instructions**

This chapter contains information and warnings that must be observed. Ensure that the instrument is operated under safe conditions. In addition to the safety precautions indicated in this chapter, you must also follow accepted safety procedures

### **Safety Precautions**

#### **Warning**

Please follow these guidelines to avoid possible electric shock and risk to personal safety.

Users must adhere to standard safety precautions during the operation, servicing, and maintenance of this device. UNI-T will not be liable for any personal safety and property loss caused by the user's failure following the safety precautions. This device is designed for professional users and responsible organizations for measurement purposes.

Do not use this device in any manner not specified by the manufacturer.

This device is intended for indoor use only, unless otherwise stated in the product manual.

### **Safety Statements**

#### **Warning**

“Warning” indicates the presence of a hazard. It warns users to pay attention to a certain operation process, operation method Warning or similar. Personal injury or death may occur if the rules in the “Warning” statement are not properly executed or observed. Do not proceed to the next step until you fully understand and meet the conditions stated in the “Warning” statement

#### **Caution**












“Caution” indicates the presence of a hazard. It warns users to pay attention to a certain operation process, operation method or similar. Product damage or loss of important data may occur if the rules in the “Caution” statement are not properly executed or observed. Do not proceed to the next step until you fully understand and meet the conditions stated in the “Caution” statement.


#### **Note**


“Note” indicates important information. It reminds users to pay attention to procedures,




methods, and conditions, etc. The contents of “Note” should be highlighted if necessary.

## Safety Signs

	Danger	It indicates danger of electric shock, which may cause personal injury or death.
	Warning	It indicates that there are factors you should be cautious of to prevent personal injury or product damage.
	Caution	It indicates danger, which may cause damage to this device or other equipment if you fail to follow a certain procedure or condition. If the “Caution” sign is present, all conditions must be met before you proceed to operation.
	Note	It indicates potential problems, which may cause failure of this device if you fail to follow a certain procedure or condition. If the “Note” sign is present, all conditions must be met before this device will function properly.
	AC	Alternating current of device. Please check the region's voltage range.
	DC	Direct current device. Please check the region's voltage range.
	Grounding	Frame and chassis grounding terminal
	Grounding	Protective grounding terminal
	Grounding	Measurement grounding terminal
	OFF	Main power off
	ON	Main power on

	Power	Standby power supply: When the power switch is turned off, this device is not completely disconnected from the AC power supply.
<b>CAT I</b>	Secondary electrical circuit connected to wall sockets through transformers or similar equipment, such as electronic instruments and electronic equipment; electronic equipment with protective measures, and any high-voltage and low-voltage circuits, such as the copier in the	

<b>CAT II</b>	Primary electrical circuit of the electrical equipment connected to the indoor socket via the power cord, such as mobile tools, home appliances, etc. Household appliances, portable tools (e.g., electric drill), household sockets, sockets more than 10 meters away from CAT III circuit or sockets more than 20 meters away from CAT IV circuit.	
<b>CAT III</b>	Primary circuit of large equipment directly connected to the distribution board and circuit between the distribution board and the socket (three-phase distributor circuit includes a single commercial lighting circuit). Fixed equipment, such as multi-phase motor and multi-phase fuse box; lighting equipment and lines inside large buildings; machine tools and power distribution boards at industrial sites (workshops).	
<b>CAT IV</b>	Three-phase public power unit and outdoor power supply line equipment. Equipment designed to “initial connection,” such as power distribution system of power station, power instrument, front-end overload protection, and any outdoor transmission line.	
	Certification	CE indicates a registered trademark of EU.

	Certification	Conforms to UL STD 61010-1 and 61010-2-030. Certified to CSA STD C22.2 No.61010-1 and 61010-2-030.
	Waste	Do not place equipment and accessories in the trash. Items must be properly disposed of in accordance with local regulations.
	EUP	This environment-friendly use period (EFUP) mark indicates that dangerous or toxic substances will not leak or cause damage within this indicated time period. The environmentally friendly use period of this product is 40 years, during which it can be used safely. Upon expiration of this period, it should enter the recycling system.

## Safety Requirements

### Warning

Preparation before use	<p>Please connect this device to AC power supply with the power cable provided.</p> <p>The AC input voltage of the line reaches the rated value of this device. See the product manual for specific rated value.</p> <p>The line voltage switch of this device matches the line voltage.</p> <p>The line voltage of the line fuse of this device is correct.</p> <p>This device is not intended for measuring the main circuit.</p>
Check all terminal rated values	<p>Please check all rated values and marking instructions on the product to avoid fire and the impact of excessive current. Please consult the product manual for detailed rated values before connection.</p>
Use the power cord properly	<p>You can only use the special power cord for the instrument approved by the local and state standards. Please check whether the insulation layer of the cord is damaged, or the cord is exposed, and test whether the cord is conductive. If the cord is damaged, please replace it before using the instrument.</p>

Instrument Grounding	To avoid electric shock, the grounding conductor must be connected to the ground. This product is grounded through the grounding conductor of the power supply. Please be sure to ground this product before it is powered on.
AC power supply	Please use the AC power supply specified for this device. Please use the power cord approved by your country and confirm that the insulation layer is not damaged.
Electrostatic prevention	This device may be damaged by static electricity, so it should be tested in the anti-static area if possible. Before the power cable is connected to this device, the internal and external conductors should be grounded briefly to release static electricity. The protection grade of this device is 4 kV for contact discharge and 8 kV for air discharge.
Measurement accessories	Measurement accessories designated as lower-grade, which are not applicable to main power supply measurement, CAT II, CAT III, or CAT IV circuit measurement. Probe subassemblies and accessories within the range of IEC 61010-031 and current sensors within the range of IEC 61010-2-032 can meet its requirements.
Use the input / output port of this device properly	<p>Please use the input / output ports provided by this device in a proper manner. Do not load any input signal at the output port of this device. Do not load any signal that does not reach the rated value at the input port of this device. The probe or other connection accessories should be effectively grounded to avoid product damage or abnormal function.</p> <p>Please refer to the product manual for the rated value of the input / output port of this device.</p>

Power fuse	<p>Please use a power fuse of exact specification. If the fuse needs to be replaced, it must be replaced with another one that meets the specified specifications by the maintenance personnel authorized by UNI-T.</p>
Disassembly and cleaning	<p>There are no components available for operators inside. Do not remove the protective cover.</p> <p>Qualified personnel must conduct maintenance.</p>
Service environment	<p>This device should be used indoors in a clean and dry environment with ambient temperature from 0 °C to +40 °C.</p> <p>Do not use this device in explosive, dusty, or high humidity conditions.</p>
Do not operate in humid environment	<p>Do not use this device in a humid environment to avoid the risk of internal short circuit or electric shock.</p>
Do not operate in flammable and explosive environment	<p>Do not use this device in a flammable and explosive environment to avoid product damage or personal injury.</p>
Caution	
Abnormality	<p>If this device may be faulty, please contact the authorized maintenance personnel of UNI-T for testing. Any maintenance, adjustment or parts replacement must be done by the relevant personnel of UNI-T.</p>

Cooling	Do not block the ventilation holes at the side and back of this device. Do not allow any external objects to enter this device via ventilation holes. Please ensure adequate ventilation and leave a gap of at least 15 cm on both sides, front and back of this device.
Safe transportation	Please transport this device safely to prevent it from sliding, which may damage the buttons, knobs, or interfaces on the instrument panel.
Proper ventilation	Insufficient ventilation will cause the device temperature to rise, thus causing damage to this device. Please keep proper ventilation during use, and regularly check the vents and fans.
Keep clean and dry	Please take actions to avoid dust or moisture in the air affecting the performance of this device. Please keep the product surface clean and dry.
Note	
Calibration	The recommended calibration period is one year. Calibration should only be conducted by qualified personnel.

### 1.3 Environmental Requirements

This instrument is suitable for the following environment.

Indoor use

Pollution degree 2

Overvoltage category: This product should be connected to a power supply that meets Overvoltage Category II. This is a typical requirement for connecting devices via power cords and plugs.

In operating: altitude lower than 3000 meters; in non-operating: altitude lower than 15000 meters.

Unless otherwise specified, operating temperature is 10°C to +40°C; storage



temperature is

-20°C to + 60°C.

In operating, humidity temperature below to +35°C, ≤ 90 RH. (Relative humidity); in non-operating, humidity temperature is +35°C to +40°C, ≤ 60 RH.

There is ventilation opening on the rear panel and side panel of the instrument. So please keep the

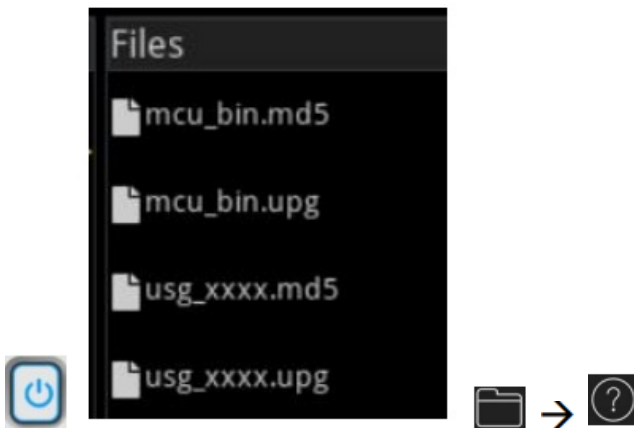
air flowing through the vents of the instrument housing. To prevent excessive dust from blocking

the vents, please clean the instrument housing regularly. The housing is not waterproof, please

disconnect the power supply first and then wipe the housing with a dry cloth or a slightly moistened

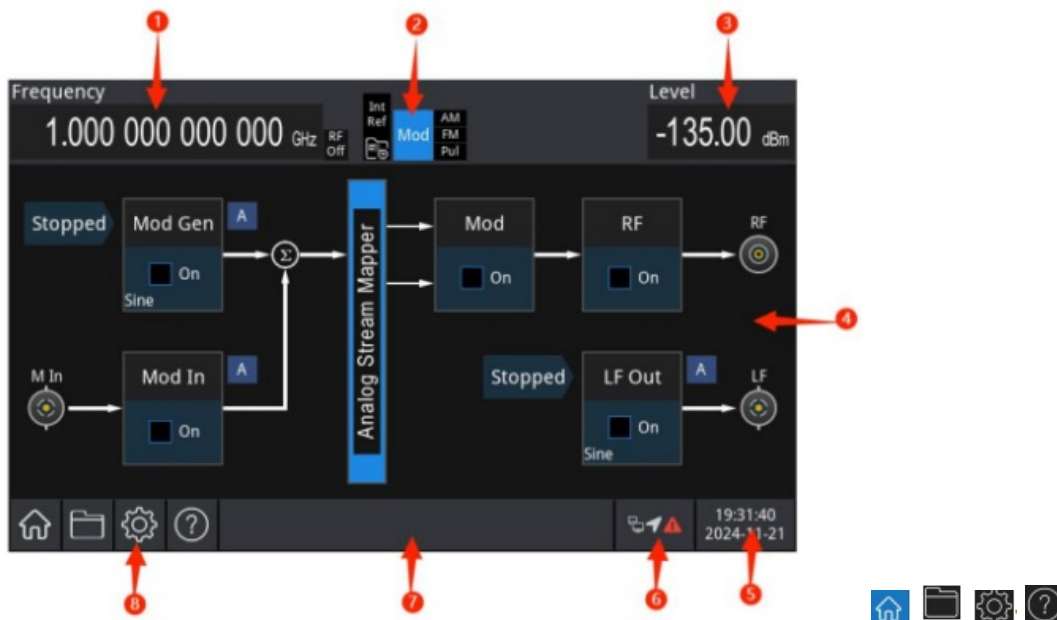
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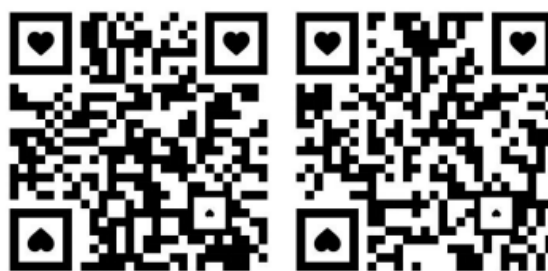
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## Limited Warranty and Liability

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](https://instrument.uni-trend.com) for full warranty information.



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# Documents / Resources



[UNI-T 5000M Series RF Analog Signal Generators \[pdf\]](#) User Guide

USG3000M series, USG5000M series, 5000M Series RF Analog Signal Generators, 5000M Series, RF Analog Signal Generators, Analog Signal Generators, Signal Generators, Generators

## References

- [User Manual](#)

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5000M Series, 5000M Series RF Analog Signal Generators, Analog Signal Generators, Generators, RF Analog Signal Generators, Signal Generators, UNI-T , USG3000M series, USG5000M series

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