

UTG9000C SERIES FUNCTION GENERATOR OPERATING MANUAL

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Introduction

Thanks for purchasing our product! Inorder to ensure to use this Instrument correctly for the best performance, please read this manual in detail and keep it properly. This Instrument is under strictly quality control for production. All the parts go through screening and ageing, and a series erformance testing, environmental testing and safety testing, Guaranty for safety in proper using. The best working performance under the guidelines of working environment.

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UTG9000C series function generator can outputs sine, square, triangle, pulse, ramp, TTL single pulse etc. Its signal frequency is up to 10MHz. It can adjusts DC level、duty cycle. It displays the frequency with a 4-digits-LED meter, and displays the output amplitude with a 3-digits-LED meter. It also can be used as a 10MHz frequency counter.

Check the Meter whether there is any damage or metal part is exposed. Packing box include the below items. If any differences or damage, please contact the nearby sales offices. Standard accessories are as below:

1.Cable with BNC/Insulated Clips Terminations 1 pcs 2.Power cord 3.Instruction manual

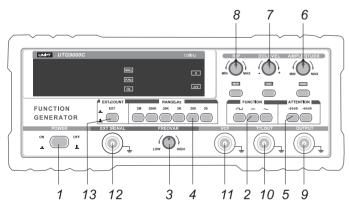
Specifications

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Model Spec.	UTG9002C	UTG9003C	UTG9005C	UTG9010C	
Upper Limit Frequency	2MHz	2MHz	5MHz	10MHz	
Waveform	Sine, Square, Triangle, Pulse, Ramp etc.				
Frequency	$0.2Hz \sim 2MHz$		0.5 Hz ~ 5 MHz	$1 Hz \sim 10 MHz$	
Display	Amplitude, Frequency				
Frequency error	≤± 1%				
Amplitude error	≤± 5%				
Max amplitude	20Vp-p	25Vp-p	20Vp-p		
Output power≥	2Wp-p	4.5W	2Wp-p		
Attenuator	20dB+40dB				
DC level	- 10V ∼ +10V				
Duty cycle	10% ~ 90%				
Distortion of sine	≤ 2%				
Rise time	≤ 50ns		≤ 35ns		
VCF	100 : 1		100 : 1		
TTL	\checkmark				

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Function of panel controls



- 1. POWER: When this button is pushed in, the power is
- turned on and the power lamp lightens.

2. FUNCTION: Select the waveform to output : Sine wave : Rectangular wave \Box : Triangle wave

- 3. FREQ. VAR: Adjusts the frequency continuous in the
- 4. RANGE-Hz: Selects the frequency ranges of the signal.
- 5. ATT: Attenuate the output signal in 10dB, 20dB, 30dB,
- 40dB, 50dB, 60dB or 70dB. 6. AMPLITUDE: Adjust the amplitude.
- 7. DC OFFSET: When the button is pushed in, the lamp lightens, and the DC component of output is adjustable. When the button is pushed out, the DC component is zero
- 8. RAMP/PULSE: When the button is pushed in, the lamp lightens, the output frequency divided by 10. The duty cycle ratio of the ramp or pulse can be adjusted from 10% to 90%; When the button is pushed out, the duty cycle ratio is 50%.
- 9. OUTPUT: Outputs signal.
- 10. TTL OUT: Output a rectangular waveform for TTL
- 11. VCF: Input connector for the signal controlling frequency.

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- 12. EXT SIGNAL: Frequency counter input terminal.
- 13. EXT COUNT: When the button is pushed in, the indicator lights, the 4-digits-LED meter can be used as a frequency counter. The measured signal should be input from the INPUT terminal and the amplitude of measured signal should be from 0.5V to 5V.
- buttons.
- 5. Adjust the Amplitude until adaptable
- 6. If you want to set the DC offset, push in the DC offset button and adjust the DC offset to a convenient level or
- 7. TTL level signal is output from the TTL terminal.
- 8. If a voltage is connected to the "VCF" connector, the frequency of output signal will controlled by the voltage.

Operation

- 1. Connect the power cable to the AC input. Then push in the power switch.
- 2. Select a RANGE-Hz switch and push it in.
- 3. Select a FUNCTION switch and push it in. If you want to output a pulse or ramp wave, push in the PULSE/RAMP button and adjust the pulse time or ramp ratio, or push it out.
- 4. If you want to output a small signal, push in the ATT

Caution

- 1. Check line voltage prior to connect the instrument to the power source.
- 2. Don't connect a voltage higher than 10V (DC+AC) to the output terminal, TTL output terminal or VCF input terminal.

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END

Operating Manual content is subject to change without notice!

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Uni-Trend Technology (Dongguan) Limited Dong Fang Da Dao Bei Shan Dong Fang Industrial Development District Hu Men Town, Dongguan City Guang Dong Province China

Headquarters: Uni-Trend Group Limited Rm901, 9/F, Nanyang Plaza 57 Hung To Road Kwun Tong Kowloon, Hong Kong Tel: (852) 2950 9168 Fax: (852) 2950 9303

Postal Code: 523 925

Email: info@uni-trend.com http://www.uni-trend.com