



FUNCTION GENERATOR UNI-T UTG-9005

The **UNI-T UTG-9005** is a function generator, a device used to generate various types of electrical waveforms over a wide range of frequencies. It is commonly used in electronics testing, development, and education. Below are some key features and specifications of the UTG-9005:

Key Features:

1. **Waveform Types:**
 - Sine wave
 - Square wave
 - Triangle wave
 - Sawtooth wave
 - Pulse wave
 - TTL/CMOS output
2. **Frequency Range:**
 - Typically covers a range from **0.1 Hz to 5 MHz** (may vary slightly depending on the model).
3. **Output Amplitude:**
 - Adjustable output voltage, often up to **20 Vpp** (peak-to-peak) into an open circuit or **10 Vpp** into a 50 Ω load.
4. **Output Impedance:**
 - 50 Ω (standard for most function generators).
5. **DC Offset:**
 - Allows the waveform to be shifted above or below the zero-voltage level.
6. **Duty Cycle Adjustment:**
 - For square and pulse waves, the duty cycle can typically be adjusted.
7. **Modulation:**
 - Some models may support amplitude modulation (AM), frequency modulation (FM), or other modulation types.
8. **Display:**



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- LCD or LED display for frequency, waveform type, and other parameters.
 - 9. **TTL/CMOS Output:**
 - Provides a digital signal output for logic-level applications.
 - 10. **Sweep Function:**
 - Allows the frequency to sweep between two set values over a specified time.
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Common Applications:

- Testing and debugging electronic circuits.
 - Generating signals for audio and RF applications.
 - Calibrating and testing oscilloscopes, amplifiers, and filters.
 - Educational purposes in electronics labs.
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Specifications (Example):

- **Frequency Range:** 0.1 Hz to 5 MHz
 - **Waveforms:** Sine, Square, Triangle, Sawtooth, Pulse, TTL/CMOS
 - **Output Amplitude:** 0–20 Vpp (open circuit), 0–10 Vpp (50 Ω load)
 - **Output Impedance:** 50 Ω
 - **DC Offset:** Adjustable
 - **Duty Cycle:** Adjustable for square/pulse waves
 - **Display:** Digital LCD
 - **Power Supply:** Typically AC adapter or battery-powered (depending on model).
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Usage Tips:

- Ensure the output impedance matches the load impedance to avoid signal reflections.
- Use the DC offset feature to shift waveforms as needed for specific applications.
- For precise frequency generation, use the fine-tuning controls.

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PHILIPPINES



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**1 YEAR
WARRANTY**



UTG-9005C-II	Function/Arbitrary Waveform Generator
UTG-9005C-II	Waveform Generator Function/Arbitrary