



FUNCTION GENERATOR UNI-T UTG1010A

The **UNI-T UTG1010A** 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 **UTG1010A**:

Key Features:

1. **Waveform Types:**
 - Sine, square, triangle, ramp, pulse, and arbitrary waveforms.
 2. **Frequency Range:**
 - 0.1 Hz to 10 MHz.
 3. **Output Amplitude:**
 - Adjustable from 0 to 10 Vpp (into 50 Ω load).
 4. **Output Impedance:**
 - 50 Ω .
 5. **Arbitrary Waveform:**
 - Allows users to create custom waveforms.
 6. **Modulation:**
 - Supports AM (Amplitude Modulation), FM (Frequency Modulation), and FSK (Frequency Shift Keying).
 7. **Sweep Function:**
 - Linear and logarithmic sweep modes.
 8. **Burst Function:**
 - Generates a specific number of cycles (1 to 1,000,000).
 9. **Display:**
 - LCD screen for easy parameter visualization.
 10. **Interface:**
 - USB connectivity for remote control and data transfer.
 11. **Power Supply:**
 - AC adapter or battery-powered (optional).
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Applications:

FUNCTION GENERATOR UNI-T UTG1010A

- Testing and debugging electronic circuits.
 - Generating signals for audio and RF applications.
 - Educational purposes in electronics labs.
 - Simulating sensor signals in industrial applications.
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Specifications:

- **Frequency Resolution:** 0.1 Hz.
 - **Amplitude Resolution:** 1 mVpp.
 - **DC Offset:** Adjustable from -5 V to +5 V.
 - **Harmonic Distortion:** < -55 dBc (sine wave).
 - **Rise/Fall Time:** < 20 ns (square wave).
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Pros:

- Compact and portable design.
 - Easy-to-use interface.
 - Wide range of waveform options.
 - Affordable compared to high-end function generators.
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Cons:

- Limited frequency range compared to higher-end models.
- May not be suitable for very high-frequency applications.

