



FUNCTION GENERATOR UNI-T UTG2025

The **UNI-T UTG2025** is a function generator, a device used to generate various types of electrical waveforms over a wide range of frequencies. Here's an overview of its key features and specifications:

Key Features of the UNI-T UTG2025 Function Generator:

1. **Dual-Channel Output:**
 - Two independent output channels, allowing for simultaneous generation of different waveforms.
2. **Waveform Types:**
 - Common waveforms: Sine, Square, Triangle, Ramp, Pulse, and DC.
 - Arbitrary waveforms: Custom waveforms can be created and loaded.
3. **Frequency Range:**
 - Typically covers a wide range, from very low frequencies (mHz) up to 25 MHz (depending on the model).
4. **Amplitude Range:**
 - Adjustable output amplitude, often up to 20 Vpp (into a high-impedance load).
5. **Output Impedance:**
 - Standard 50 Ω output impedance, which is typical for function generators.
6. **Modulation Capabilities:**
 - Supports amplitude modulation (AM), frequency modulation (FM), and phase modulation (PM).
 - Pulse width modulation (PWM) may also be available.
7. **Sweep Function:**
 - Frequency sweep capability, allowing the frequency to vary linearly or logarithmically over a set range.
8. **Burst Mode:**
 - Generates a specific number of waveform cycles, useful for testing and triggering applications.
9. **Arbitrary Waveform Generation:**

- Allows users to create and store custom waveforms for specialized applications.

10. User Interface:

- Equipped with an intuitive interface, often including an LCD screen and rotary encoders for easy parameter adjustment.

11. Connectivity:

- May include USB or other interfaces for remote control and data transfer.

Typical Applications:

- **Testing and Development:** Used in electronics labs for testing circuits, amplifiers, filters, and other components.
- **Education:** Commonly used in educational settings to teach waveform generation and signal processing.
- **Research:** Useful for generating precise signals in scientific research.
- **Troubleshooting:** Helps diagnose and repair electronic equipment.

Specifications (Example):

- **Frequency Range:** 0.1 Hz to 25 MHz.
- **Output Amplitude:** 0 to 20 Vpp (into high impedance).
- **Output Impedance:** 50 Ω .
- **Waveforms:** Sine, Square, Triangle, Pulse, Ramp, Arbitrary.
- **Modulation:** AM, FM, PM, PWM.
- **Sweep:** Linear and logarithmic.
- **Display:** LCD with intuitive menu navigation.
- **Power Supply:** Typically AC adapter or battery-powered (depending on model).

Advantages:

- Compact and portable design.
- Versatile waveform generation capabilities.

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- Suitable for both beginners and advanced users.

