

FUNCTION UNI-T UTG932E

The **UNI-T UTG932E** is a programmable function generator, a device used to generate various types of electrical waveforms over a wide range of frequencies. Below is a general overview of its features and functionality:

Key Features of the UNI-T UTG932E:

1. **Waveform Types:**
 - Sine, square, triangle, pulse, and arbitrary waveforms.
 - Supports DC offset and modulation functions.
2. **Frequency Range:**
 - Typically covers a range from **1 μ Hz to 30 MHz** (exact range may vary depending on the model).
3. **Amplitude Range:**
 - Adjustable output amplitude, often up to **20 Vpp** (into a high-impedance load).
4. **Output Channels:**
 - Single or dual-channel output (depending on the model).
5. **Arbitrary Waveform Generator (AWG):**
 - Allows users to create and output custom waveforms.
6. **Modulation Modes:**
 - AM (Amplitude Modulation), FM (Frequency Modulation), PM (Phase Modulation), and PWM (Pulse Width Modulation).
7. **Sweep and Burst Modes:**
 - Frequency sweep and burst functions for advanced signal generation.
8. **High Resolution:**
 - High-resolution digital signal processing for precise waveform generation.
9. **User Interface:**
 - Intuitive interface with a clear display for easy operation.
 - Rotary encoder and buttons for quick adjustments.
10. **Connectivity:**

- USB or other interfaces for remote control and data transfer (depending on the model).
-

Applications:

- **Testing and Development:** Used in electronics labs for testing circuits, sensors, and components.
 - **Education:** Ideal for teaching and learning about waveforms and signal generation.
 - **Research:** Supports advanced signal generation for scientific experiments.
 - **Industrial Use:** Calibration and troubleshooting of electronic equipment.
-

How to Use:

1. **Power On:** Connect the device to a power source and turn it on.
 2. **Select Waveform:** Choose the desired waveform (sine, square, etc.) from the menu.
 3. **Set Parameters:** Adjust frequency, amplitude, and other parameters using the controls.
 4. **Connect Output:** Use BNC cables to connect the output to your device or circuit.
 5. **Modulation/Sweep (Optional):** Enable modulation or sweep modes if needed.
 6. **Monitor:** Observe the output on an oscilloscope or other measurement device.
-

Specifications (Example):

- **Frequency Accuracy:** ± 20 ppm.
- **Output Impedance:** 50 Ω .
- **Harmonic Distortion:** <0.5% (for sine wave).
- **Rise/Fall Time:** <20 ns (for square wave).
- **Power Supply:** 100-240 VAC, 50/60 Hz.

FUNCTION UNI-T UTG932E

