

The **UNI-T UTG2062A** is a **dual-channel function generator** that is commonly used in electronics laboratories, educational settings, and for various testing and development purposes. It is designed to generate a wide range of waveforms, including sine, square, triangle, pulse, and arbitrary waveforms. Below are some key features and specifications of the UTG2062A:

Key Features:

1. **Dual-Channel Output:**
 - Two independent output channels (CH1 and CH2) for generating waveforms simultaneously.
2. **Frequency Range:**
 - Covers a wide frequency range, typically from **1 μ Hz to 60 MHz** (depending on the model and waveform type).
3. **Waveform Types:**
 - Sine, square, triangle, pulse, and arbitrary waveforms.
4. **Arbitrary Waveform Generator (AWG):**
 - Allows users to create and output custom waveforms.
5. **High Resolution:**
 - High signal resolution (e.g., 14-bit) for precise waveform generation.
6. **Modulation Functions:**
 - Supports AM (Amplitude Modulation), FM (Frequency Modulation), PM (Phase Modulation), and PWM (Pulse Width Modulation).
7. **Sweep Function:**
 - Frequency sweep capability for testing and analysis.
8. **Burst Function:**
 - Generates burst signals with adjustable cycles and periods.
9. **User Interface:**
 - Equipped with a clear LCD display and intuitive controls for easy operation.
10. **Output Amplitude:**
 - Adjustable output amplitude up to **20 Vpp** (into 50 Ω load).

11. Connectivity:

- USB interface for remote control and data transfer.

12. Built-in Counter:

- Frequency counter function to measure external signals.



Specifications (Typical):

- **Frequency Range:** 1 μ Hz to 60 MHz (sine wave).
- **Output Amplitude:** 10 mVpp to 20 Vpp (into 50 Ω).
- **Output Impedance:** 50 Ω .
- **Waveform Types:** Sine, square, triangle, pulse, arbitrary.
- **Modulation Types:** AM, FM, PM, PWM.
- **Sweep Modes:** Linear and logarithmic.
- **Display:** LCD with waveform visualization.
- **Power Supply:** AC 100-240 V, 50/60 Hz.

Applications:

- Testing and debugging electronic circuits.
- Educational purposes in electronics and engineering labs.
- Signal simulation for development and prototyping.
- Research and development in telecommunications and signal processing.

Advantages:

- Dual-channel capability for complex signal generation.
- Wide frequency range and high resolution.
- Versatile modulation and sweep functions.
- User-friendly interface and compact design.