



OSCILLOSCOPE UNI-T UTD2025

The **UNI-T UTD2025** is a digital storage oscilloscope (DSO) designed for general-purpose electronic testing and measurement. Below is an overview of its key features and specifications:

Key Features:

1. **Bandwidth:** 25 MHz (suitable for basic to intermediate electronics work).
 2. **Sample Rate:** Up to 250 MS/s (megasamples per second) in real-time.
 3. **Channels:** 2 channels for simultaneous signal measurement.
 4. **Display:** 5.7-inch color TFT LCD screen for clear waveform visualization.
 5. **Waveform Capture:** Digital storage capability for capturing and analyzing signals.
 6. **Automatic Measurements:** Includes voltage, frequency, period, and other common parameters.
 7. **Triggering:** Multiple trigger modes (edge, video, pulse, etc.) for stable waveform display.
 8. **Math Functions:** Basic operations like addition, subtraction, and FFT (Fast Fourier Transform) for signal analysis.
 9. **PC Connectivity:** USB interface for data transfer and remote control via software.
 10. **Portable Design:** Compact and lightweight, making it suitable for fieldwork or lab use.
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Specifications:

- **Vertical System:**
 - Input Coupling: AC, DC, GND
 - Input Impedance: $1\text{ M}\Omega \pm 2\%$



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- Bandwidth Limit: 20 MHz
 - **Horizontal System:**
 - Time Base Range: 5 ns/div to 50 s/div
 - **Trigger System:**
 - Trigger Sources: CH1, CH2, EXT, LINE
 - Trigger Modes: Auto, Normal, Single
 - **Input/Output:**
 - USB Port: For data storage and PC communication
 - Probe: Standard 10x attenuation probes included
 - **Power Supply:** 100-240 V AC, 50/60 Hz (typically comes with an AC adapter).
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Applications:

- Circuit debugging and troubleshooting.
 - Educational purposes in electronics labs.
 - Testing and measuring signals in audio, power supplies, and communication systems.
 - Basic research and development tasks.
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Pros:

- Affordable and user-friendly, making it ideal for beginners and hobbyists.
- Compact and portable.
- Decent performance for its price range.

Cons:

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- Limited bandwidth (25 MHz) may not be suitable for high-frequency applications.
- Basic features compared to higher-end oscilloscopes.

