



OSCILLOSCOPE UNI-T UTD2102 CEX

The **UNI-T UTD2102CEX** 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:** 100 MHz
 2. **Sample Rate:** 1 GSa/s (real-time)
 3. **Channels:** 2 channels
 4. **Display:** 7-inch TFT-LCD with 800x480 resolution
 5. **Memory Depth:** Up to 28 Mpts (optional)
 6. **Waveform Capture Rate:** Up to 80,000 waveforms per second
 7. **Input Impedance:** $1\text{ M}\Omega \pm 2\%$, $15\text{ pF} \pm 3\text{ pF}$
 8. **Vertical Sensitivity:** 2 mV/div to 10 V/div
 9. **Time Base Range:** 2 ns/div to 50 s/div
 10. **Trigger Modes:** Edge, Pulse, Video, Slope, and Alternate
 11. **Math Functions:** +, -, $\times$, $\div$, FFT
 12. **Connectivity:** USB host and device, LAN (optional)
 13. **Portable Design:** Lightweight and compact for easy transport
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Applications:

- Circuit debugging and analysis
 - Signal integrity testing
 - Educational purposes
 - Power electronics testing
 - General electronics maintenance
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Pros:

- High sample rate and bandwidth for its class
- Deep memory depth for capturing long signal sequences
- User-friendly interface with a large display
- Affordable compared to similar models from other brands



Cons:

- Limited advanced features compared to higher-end oscilloscopes
- Build quality may not be as robust as premium brands

Accessories Included:

- Probes (usually 10x attenuation)
- Power cable
- User manual
- USB cable