OSCILOSCOPE 3 IN 1 ZT-703S 50MHz

The **ZT-703S** is a **3-in-1 oscilloscope** that combines a **50MHz oscilloscope**, a **multimeter**, and a **signal generator** into a single device. It is a portable and compact tool designed for electronics enthusiasts, engineers, and technicians who need a versatile instrument for testing, debugging, and troubleshooting circuits.

Key Features of the ZT-703S:

1. **Oscilloscope**:
   - Bandwidth: **50MHz**
   - Sampling Rate: **250MS/s** (Mega Samples per second)
   - Channels: **1 channel** (some models may have 2 channels)
   - Display: **Color TFT LCD** (typically 3.5 inches or larger)
   - Waveform Capture: Real-time display of voltage signals over time.
2. **Multimeter**:
   - Measures voltage (AC/DC), current (AC/DC), resistance, capacitance, frequency, and diode testing.
   - Auto-ranging functionality for ease of use.
3. **Signal Generator**:
   - Outputs basic waveforms like sine, square, and triangle waves.
   - Frequency range: Typically up to **2MHz** or higher, depending on the model.
   - Adjustable amplitude and duty cycle.
4. **Portability**:
   - Compact and lightweight design, making it easy to carry.
   - Powered by a rechargeable battery (usually Li-ion) or via USB.
5. **User Interface**:
   - Intuitive menu and controls for easy operation.
   - Comes with probes and accessories for measurements.
6. **Additional Features**:

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- Data logging and storage capabilities.
- USB connectivity for firmware updates or data transfer.
- Auto-setup and trigger functions for the oscilloscope.

Common Applications:

- **Circuit Debugging**: Analyze voltage and current waveforms in electronic circuits.
- **Education**: Great for students learning electronics and signal analysis.
- **Field Work**: Portable design makes it ideal for on-site repairs and testing.
- **Signal Analysis**: Generate and analyze signals for testing components or systems.

Pros:

- Combines three essential tools in one device, saving space and cost.
- Portable and battery-powered for convenience.
- Affordable compared to standalone oscilloscopes and signal generators.

Cons:

- Limited bandwidth (50MHz) compared to higher-end oscilloscopes.
- May lack advanced features found in dedicated oscilloscopes or signal generators.