



OSCILOSCOPE+Generator 3IN1 ET829 80MHz 2ch

The **OSCILOSCOPE+Generator 3IN1 ET829 80MHz 2ch** is a multifunctional device that combines an oscilloscope, a signal generator, and other tools into a single unit. Here's a breakdown of its key features and capabilities:

Key Features:

1. Oscilloscope Functionality:

- **Bandwidth:** 80 MHz
- **Channels:** 2 channels
- **Sampling Rate:** Typically, devices like this offer a sampling rate of around 1 GSa/s (Giga Samples per second), but you should verify this in the product specifications.
- **Input Voltage Range:** Usually adjustable, with ranges like $\pm 20V$ or higher.
- **Waveform Display:** Real-time display of voltage signals over time.

2. Signal Generator:

- **Waveform Types:** Can generate standard waveforms like sine, square, triangle, and pulse waves.
- **Frequency Range:** Typically up to 25 MHz or higher, depending on the model.
- **Amplitude Adjustment:** Allows you to control the output signal's amplitude.
- **Duty Cycle Control:** For square and pulse waves, you can adjust the duty cycle.

3. Additional Features:

- **Multimeter Functionality:** Some 3-in-1 devices include a digital multimeter for measuring voltage, current, and resistance.
- **Data Logging:** Ability to save and analyze waveforms or measurements.
- **PC Connectivity:** USB or software integration for data transfer and advanced analysis.

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4. Display:

- **Screen Type:** LCD or TFT display for clear visualization of waveforms and measurements.
- **Resolution:** Typically 320x240 pixels or higher.

5. Portability:

- Compact and lightweight design, making it suitable for fieldwork or lab use.



Common Applications:

- **Electronics Testing:** Debugging and analyzing circuits.
- **Education:** Teaching and learning about waveforms and signal processing.
- **Repair and Maintenance:** Diagnosing issues in electronic devices.
- **Research and Development:** Prototyping and testing new designs.

Things to Consider:

- **Accuracy and Calibration:** Ensure the device is properly calibrated for accurate measurements.
- **Software Compatibility:** Check if it comes with software for advanced analysis and data logging.
- **Probes and Accessories:** Verify if high-quality probes and necessary accessories are included.