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Haofy Haofy25t3hxuigd

Haofy ET828Pro Digital Oscilloscope Multimeter User Manual

Model: Haofy25t3hxuigd

1. Introduction

The Haofy ET828Pro is a versatile 2-in-1 digital oscilloscope and multimeter designed for accurate electrical measurements and waveform analysis. It combines the functionality of a 50MSps high-speed sampling oscilloscope with a 6000-count auto-ranging digital multimeter. This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your device.



Figure 1.1: Haofy ET828Pro Digital Oscilloscope Multimeter with included accessories.

2. Safety Information

Always observe the following safety precautions to prevent personal injury and damage to the instrument:

- Read and understand all instructions before using the device.
- Do not exceed the maximum input ratings for any function.
- Ensure the test leads are in good condition and properly connected before making measurements.
- Do not operate the device if it appears damaged or is not functioning properly.
- Use caution when working with live circuits. Always assume circuits are live until proven otherwise.
- The device is equipped with 750mA and 10A double guard fuses for protection. Do not bypass or replace with incorrect fuse types.
- Keep the device away from water, dust, and direct sunlight.



Figure 2.1: The ET828Pro features voltage overload protection and double fuses for enhanced safety.

3. Setup

3.1 Battery Installation

The ET828Pro requires 3 x AA dry batteries (not included) for operation.

1. Locate the battery compartment cover on the back of the device.
2. Open the battery compartment cover.
3. Insert 3 AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

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Digital Oscilloscope Multimeter

Video 3.1: Demonstrates the process of installing batteries into the ET828Pro device.

3.2 Connecting Test Leads

Connect the red test lead to the "VΩCx" input jack and the black test lead to the "COM" input jack for most measurements. For high current measurements (up to 10A), connect the red test lead to the "10A" input jack.

4. Operating Instructions

4.1 Function Selection

Turn the rotary dial to select the desired measurement function (e.g., AC Voltage, DC Voltage, Resistance, Capacitance, Diode, Frequency, Oscilloscope). The device will automatically power on when the dial is moved from the "OFF" position.

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Digital Oscilloscope Multimeter

Video 4.1: Illustrates how to select different measurement functions using the rotary dial on the ET828Pro.

4.2 Oscilloscope Operation

To enter oscilloscope mode, turn the rotary dial to the "OSC" position. The device features a 50MSps sampling rate and 10MHz analog bandwidth.

- **One-Touch Automatic Waveform Capture:** Press the appropriate function button (e.g., F4 for 'Auto' in oscilloscope mode) to automatically capture and display the waveform.
- **Adjustable Time Base and Amplitude:** Use the function buttons (F1-F4) to adjust the time base (horizontal scale) and vertical amplitude (voltage scale) of the displayed waveform. This allows for detailed analysis of various signal types.
- **Waveform Scanning Modes:** The oscilloscope supports Automatic, Regular, and Single trigger modes.

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Digital Oscilloscope Multimeter

Video 4.2: Demonstrates oscilloscope operation, including one-touch automatic waveform capture and adjustment of time base and amplitude.



Figure 4.1: The ET828Pro functions as both an oscilloscope and a multimeter, featuring 50MSps sampling and 10MHz bandwidth.



Figure 4.2: The 2-in-1 design allows for adjustable waveforms, enhancing work efficiency.

4.3 Multimeter Measurements

The ET828Pro offers various multimeter functions with auto-ranging and 6000 counts.

- **AC Voltage Measurement:** Turn the dial to the AC Voltage setting. Connect the test leads to the AC source. The device will display the voltage and frequency.
- **DC Voltage Measurement:** Turn the dial to the DC Voltage setting. Connect the test leads to the DC source, observing polarity.
- **Resistance Measurement:** Turn the dial to the Resistance setting. Connect the test leads across the component to measure its resistance.
- **Diode Measurement:** Turn the dial to the Diode setting. Connect the test leads across the diode to measure its forward voltage drop.
- **Capacitance Measurement:** Turn the dial to the Capacitance setting. Connect the test leads across the capacitor to measure its capacitance.

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Digital Oscilloscope Multimeter

Video 4.3: Demonstrates various multimeter measurements including AC Voltage, DC Voltage, Resistance, Diode, and Capacitance.

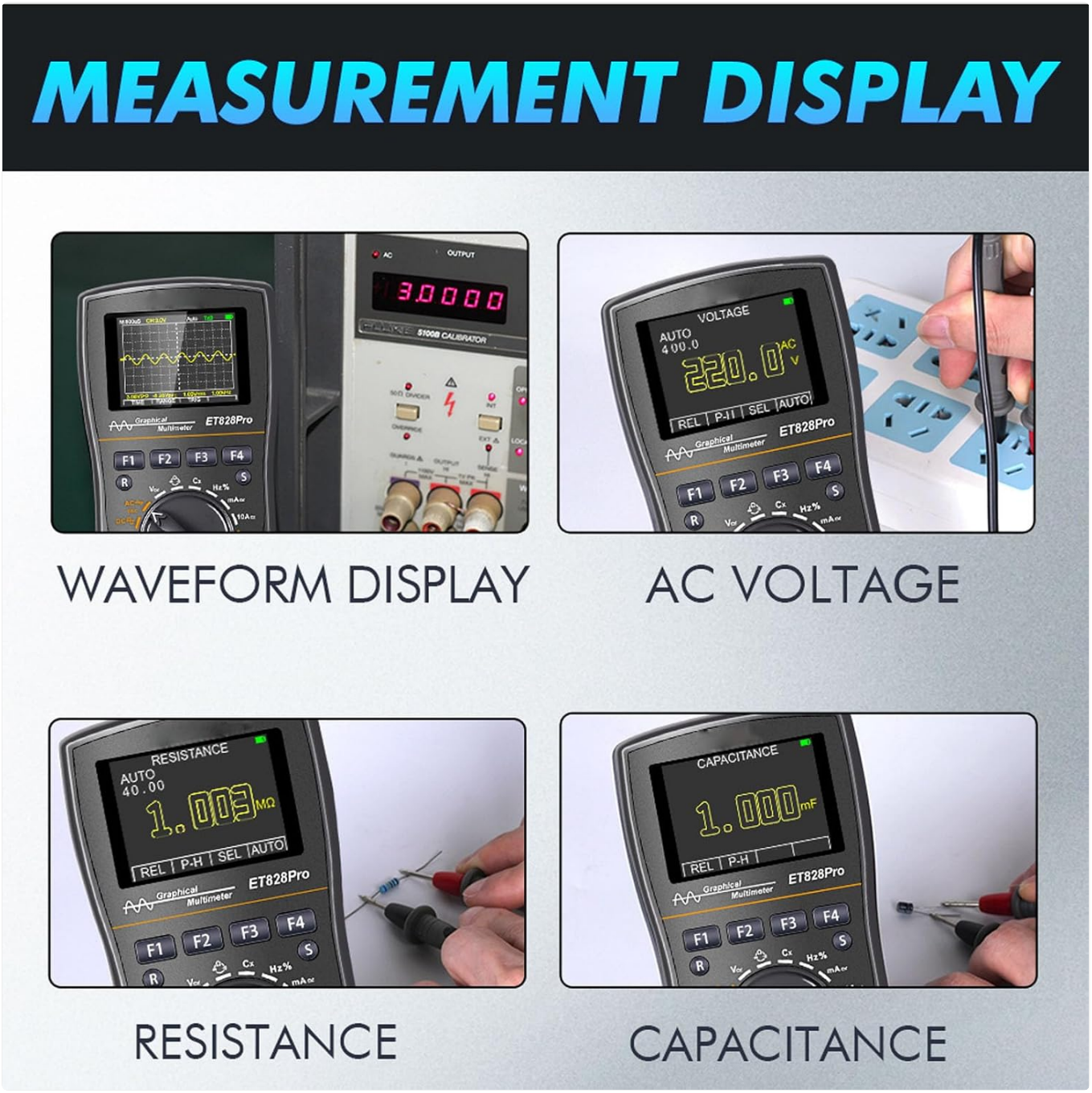

Figure 4.3: Examples of various measurement displays on the ET828Pro, including waveform, AC voltage, resistance, and capacitance.

4.4 Backlight Adjustment

The device features a 240x320 color LED backlit display. The backlight is always on for clear visibility, especially in low-light conditions.

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Digital Oscilloscope Multimeter

Video 4.4: Shows the backlight adjustment feature of the ET828Pro, ensuring clear visibility.

4.5 Waveform and Data Storage

The ET828Pro has a large capacity storage, capable of storing 100 data sets and 10 waveforms. Use the function

buttons to save and recall stored data and waveforms.

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Digital Oscilloscope Multimeter

Video 4.5: Demonstrates the waveform storage capability of the ET828Pro, allowing users to save and recall waveforms.

5. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Always use new AA dry batteries.
- **Storage:** If the device will not be used for an extended period, remove the batteries to prevent leakage. Store in a cool, dry place.
- **Fuse Replacement:** If a fuse blows, replace it with a fuse of the same type and rating (750mA 250V and 10A 250V). Refer to the safety section for fuse locations.

6. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity and replace batteries.
No reading or "OL" displayed.	Open circuit, range too low, or blown fuse.	Check connections, select higher range, or replace fuse.
Inaccurate readings.	Poor test lead contact, interference, or device malfunction.	Ensure good contact, move away from interference sources, or contact support.
Waveform not stable.	Incorrect trigger settings or signal noise.	Adjust trigger mode/level, or use signal filtering if available.

7. Specifications

Parameter	Value
Display	240 x 320 Color LCD
Backlight	Normal Light (Always On LED)
Battery Type	3 x AA Dry Batteries (Not Included)
Static Operating Current (Multimeter)	Approx. 75mA
Static Operating Current (Oscilloscope)	Approx. 150mA
Viewing Area	Approx. 49 x 36.7mm
Input Impedance	Approx. 10MΩ (Multimeter), Approx. 5MΩ (Oscilloscope)

Parameter	Value
Number of Channels	1
Vertical Sensitivity Range	500mV-200V/div
Time Base Range	200ns-10s/div
Vertical Amplitude Accuracy	±(5%+ 0.2div)
Time Base Accuracy	±(0.01 %+ 0.1div)
Trigger Mode	Auto Mode, Single Mode, Regular Mode
Trigger Selection	Rising/Falling Edge
Auto Setting	Automatic Setting of Time Base and Vertical Amplitude
Auto Measurement Function	Vp-p, Vavg, Vrms, Hz
DC Voltage Range	600mV, 6V, 60V, 600V, 1000V
AC Voltage Range	600mV, 6V, 60V, 600V, 750V
Resistance Range	Up to 60MΩ
Frequency Range	1.000Hz-20.00MHz
Diode On and Off Test	Open Circuit Voltage Approx. 2.8V
Fuses	750mA 250V, 10A 250V
Package Dimensions	7.87 x 5.51 x 1.97 inches
Item Weight	12.6 ounces

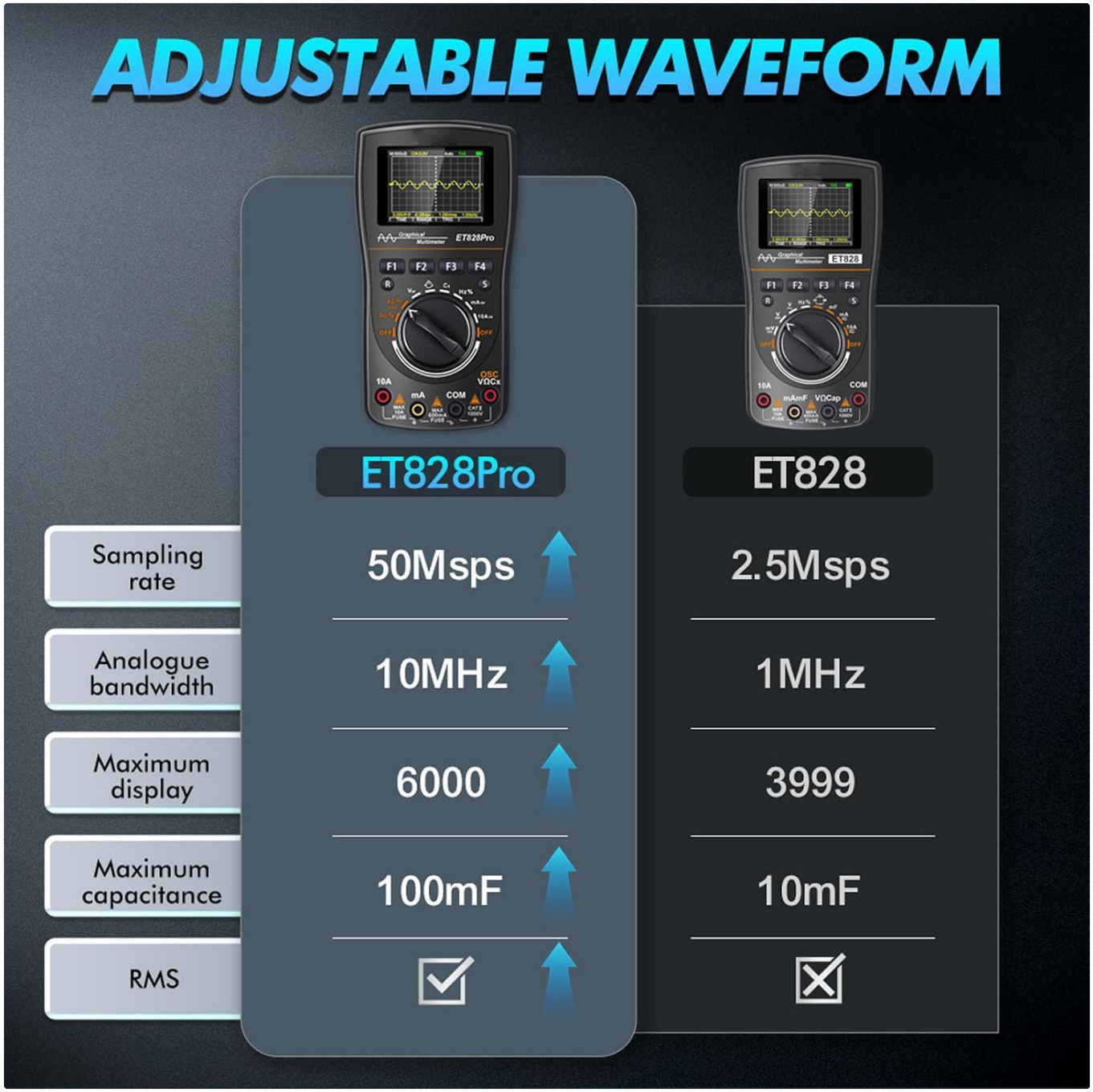

Figure 7.1: Comparison of key specifications between ET828Pro and ET828 models.



Figure 7.2: Key advantages of the ET828Pro, emphasizing its features and benefits.

8. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

Seller: Qmee-EU

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