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MDWXDOFP

TOOLTOP Thermal Imaging Camera Multimeter User Manual

Model: ET11S

Introduction

The TOOLTOP ET11S is a versatile 2-in-1 device combining a thermal imaging camera with a digital multimeter. This compact and lightweight tool is designed for various applications, including circuit board inspection, power supply maintenance, electronic equipment repair, and home appliance overhaul. It features a 2.8-inch resistive touch screen for intuitive operation and supports data transmission to PC for detailed analysis.
This manual provides essential information for the safe and effective use of your ET11S device. Please read it thoroughly before operation.

Safety Information

Always observe the following safety precautions to prevent injury and avoid damage to the device:

- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Ensure the device is clean and dry before use.
- Do not expose the device to extreme temperatures, humidity, or corrosive environments.
- When using the multimeter function, always ensure the correct measurement range is selected and observe all electrical safety guidelines.
- Avoid direct exposure of the thermal imager lens to strong light sources.

Product Overview



Figure 1: Front view of the TOOLTOP ET11S, showing the 2.8-inch resistive touch screen and control buttons below it. The screen displays both thermal imaging and multimeter readings.



Figure 2: Side-by-side comparison illustrating the thermal imaging display of the ET11S (right) and the ET12S (left). The ET11S provides a basic thermal view, while the ET12S offers more detailed imaging.

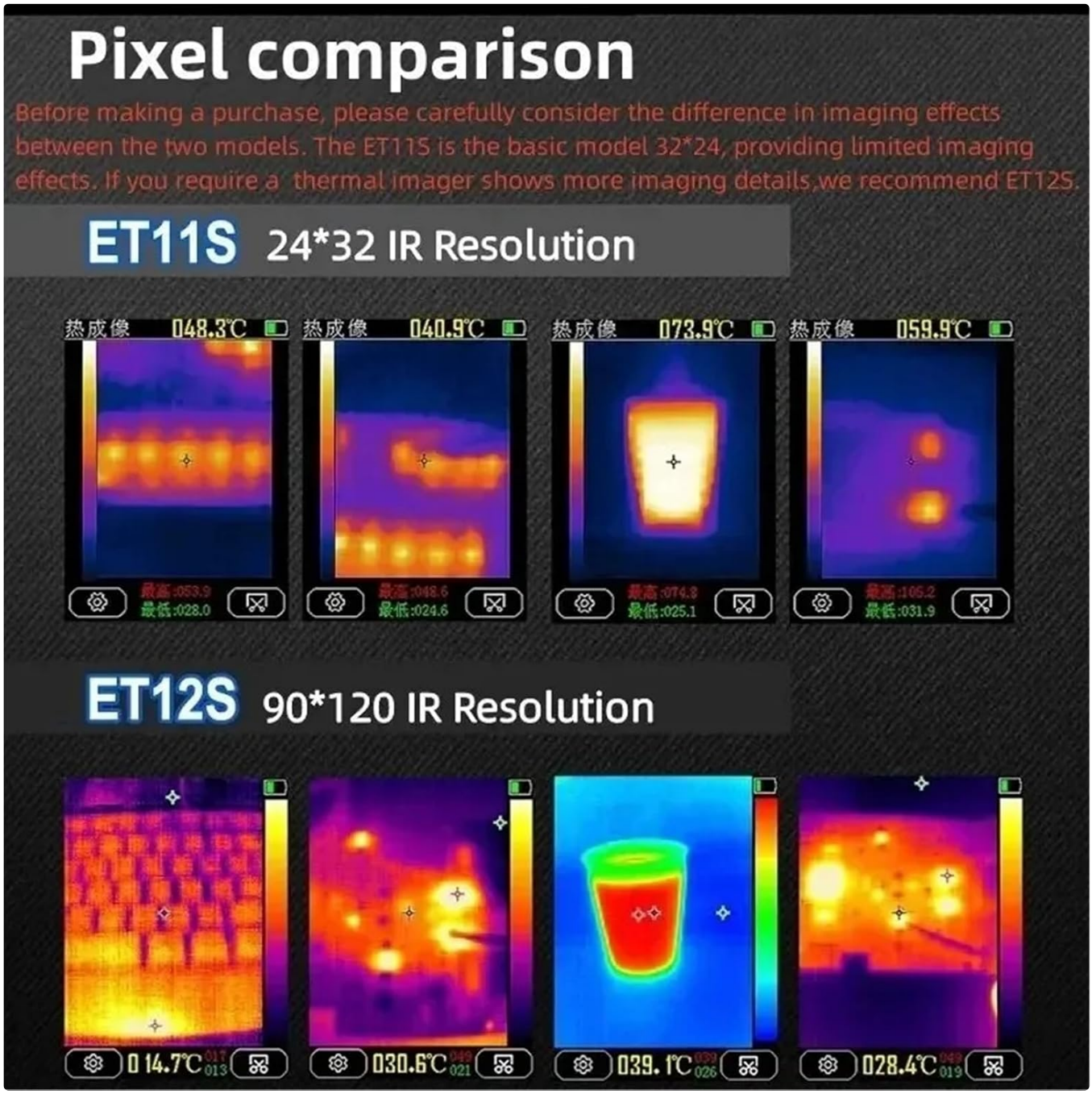


Figure 3: Detailed pixel comparison showcasing the difference in infrared resolution between the ET11S (24x32 IR Resolution) and the ET12S (90x120 IR Resolution). This highlights the level of detail each model can capture.

Key Features:

- **2-in-1 Functionality:** Combines a thermal imager and a digital multimeter.
- **Resistive Touch Screen:** 2.8-inch display with 320x480 resolution for easy navigation.
- **Data Transmission:** Transfer thermal images and multimeter readings to PC via USB for analysis.
- **Multimeter Functions:** Measures DC voltage, AC voltage, resistance, diode, on/off continuity, and capacitance.
- **Language Support:** Supports both Chinese and English.
- **Battery Management:** Built-in lithium battery with USB charging, automatic screen turn-off, and automatic power-off functions.

Setup

Initial Charging:

Before first use, fully charge the built-in lithium battery using the provided USB cable. Connect the device to a standard USB power adapter (not included) or a computer's USB port. The charging indicator will show the charging status.

PC Software Installation:

To utilize data transmission and PC software analysis features, download and install the dedicated software from the following link:
http://doctuchuang.eirbio.cn/fr01/IR-DMM.rar
Follow the on-screen instructions during installation. Ensure your computer meets the minimum system requirements for the software.

Language Settings:

The device supports both Chinese and English languages. To change the language, navigate to the settings menu on the touch screen and select your preferred language option.

Operating Instructions

Power On/Off:

Press and hold the power button (usually located on the side or front panel) to turn the device on or off.

Using the Touch Screen:

The ET11S features a resistive touch screen. For optimal responsiveness, it is recommended to use your fingernail or a stylus for interactions rather than the skin of your fingertips.

Switching Functions (Thermal Imager / Multimeter):

The device allows for one-click switching between the thermal imaging mode and the multimeter mode. Locate the dedicated switch button or on-screen icon for this function.

Thermal Imaging Mode:

In thermal imaging mode, the screen displays a thermal map of the environment. The ET11S has a 32x24 IR resolution, providing a basic thermal overview. Hotter areas typically appear brighter or in warmer colors, while cooler areas appear darker or in cooler colors.
Note on Calibration: The thermal imaging detector includes a mechanical control calibration plate. This plate calibrates approximately every 10 seconds to ensure measurement accuracy. During calibration, you may observe a brief pause of 1-3 seconds. This is a normal operational phenomenon and does not indicate a malfunction.

Multimeter Mode:

In multimeter mode, the device functions as a standard digital multimeter. It can measure:

- DC Voltage
- AC Voltage
- Resistance
- Diode Test
- Continuity (On/Off)
- Capacitance

Refer to the on-screen interface for selecting specific measurement functions and ranges. Always connect the test leads correctly for the desired measurement.

Data Transfer and Analysis:

Connect the device to your computer via USB. In USB mode, you can transfer saved thermal images and recorded multimeter measurement results. Use the installed PC software to view data charts and perform detailed analysis.

Maintenance

Cleaning:

Wipe the device exterior with a soft, dry cloth. For the screen, use a microfiber cloth specifically designed for electronics. Do not use abrasive cleaners or solvents.

Battery Care:

The device has a built-in lithium battery. To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the device with a partial charge (around 50%) if not used for extended periods.
- Utilize the automatic screen turn-off and automatic power-off features to conserve battery power.

Storage:

Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device fully using the USB cable.
Touch screen unresponsive.	Using fingertips instead of fingernail/stylus; screen dirty.	Use a fingernail or stylus. Clean the screen with a soft, dry cloth.
Thermal image briefly freezes/pauses.	Normal calibration process.	This is normal. The device is calibrating for accuracy. Wait 1-3 seconds.
Cannot transfer data to PC.	USB cable issue; PC software not installed or running; incorrect mode.	Ensure USB cable is connected properly. Install and run the PC software. Confirm device is in USB data transfer mode.

Specifications

Feature	Detail
Model	ET11S
Thermal Imager Resolution	32 x 24 IR Pixels
Screen Type	Resistive Touch Screen
Screen Size	2.8 inches
Screen Resolution	320 x 480 pixels

Feature	Detail
Multimeter Functions	DC Voltage, AC Voltage, Resistance, Diode, Continuity, Capacitance
Battery Type	Built-in Lithium Battery (USB Charging)
Dimensions (Package)	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces (approx. 50 grams)
Supported Languages	Chinese, English
Manufacturer	MDWXDOFP
Country of Origin	China

Note: The ET11S model provides basic thermal imaging (32x24 IR resolution). For more detailed thermal imaging, consider the ET12S model (90x120 IR resolution).

Warranty and Support

Warranty Information:

Specific warranty details are typically provided with your purchase documentation or on the manufacturer's official website. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact your retailer or the manufacturer, MDWXDOFP. Refer to the product packaging or the manufacturer's website for contact information. When contacting support, please have your product model (ET11S) and purchase details ready.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do I calibrate or adjust the touch screen on the TOOLTOP ET11S Thermal Imaging Camera Multimeter when it registers incorrect presses?

The TOOLTOP ET11S uses a resistive touch screen, which operates differently than the capacitive screens found on modern smartphones. If your screen is registering presses in the wrong location (e.g., pressing the top row...

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