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OEMTOOLS 24552

OEMTOOLS 24552 Thermal Imaging Camera User Manual

Model: **24552** | Brand: **OEMTOOLS**

1. INTRODUCTION

The OEMTOOLS 24552 Thermal Imaging Camera is a compact, handheld device designed to visually detect and display temperature variations. It provides both heat-mapped color palettes and actual temperature readings, making it suitable for identifying high and low temperature areas. This tool is useful for a variety of applications including automotive diagnostics, industrial inspections, electrical fault detection, and home energy audits.





Image 1.1: The OEMTOOLS 24552 Thermal Imaging Camera, showing its ergonomic design and display screen with a thermal image.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in injury or damage to the device.

- Do not expose the device to extreme temperatures, moisture, or direct sunlight for extended periods.
- Use only the specified battery type (4x 1.5V AAA batteries). Ensure correct polarity when installing batteries.
- Do not attempt to open or modify the device. Refer all servicing to qualified personnel.

- Keep the device away from strong electromagnetic fields.
- Dispose of batteries and the device according to local regulations.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- OEMTOOLS 24552 Thermal Imaging Camera
- Storage Pouch
- Mini USB Cable
- User Manual (this document)



Image 3.1: The thermal imaging camera, storage pouch, and mini USB cable included in the package.

4. PRODUCT FEATURES

- **Wide Temperature Range:** Measures temperatures from -4°F to 1,202°F (-20°C to 650°C).
- **High Accuracy:** Provides temperature readings with an accuracy of +/- 2%.
- **Visual Detection:** Displays heat-mapped color palettes for easy identification of temperature contrasts.
- **Image Capture:** Captures thermal images and saves them to a microSD card (not included).
- **LCD Display:** Features a 1.8-inch color LCD for clear viewing of thermal images and data.
- **Selectable Units:** Allows switching between Celsius (°C) and Fahrenheit (°F).
- **Multiple Color Palettes:** Offers 3 selectable color palettes for different viewing preferences.
- **Versatile Applications:** Suitable for automotive, industrial, electrical, and home use to detect leaks, insulation issues, and electrical faults.

5. SETUP

5.1. Battery Installation

1. Locate the battery compartment on the handle of the device.
2. Open the battery compartment cover.
3. Insert four (4) 1.5V AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

5.2. MicroSD Card Installation

A microSD card is required to save thermal images (not included).

1. Locate the microSD card slot, typically found under a protective rubber flap on the side of the device.
2. Gently open the rubber flap.
3. Insert a compatible microSD card into the slot until it clicks into place.
4. Close the rubber flap to protect the slot from dust and moisture.



Image 5.1: Side view of the camera, highlighting the protective flap covering the USB port and microSD card slot.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

- To power on, press and hold the power button (usually located on the top or side) until the display illuminates.
- To power off, press and hold the power button again until the display turns off.

6.2. Display Overview

The 1.8-inch LCD color display shows the thermal image, temperature readings, battery status, and other settings.







Image 6.1: A close-up of the camera's display, showing a thermal image with maximum and minimum temperature indicators.

6.3. Navigation Buttons

The device typically features 'OK', 'Up', 'Down', and 'Back' buttons for menu navigation and setting adjustments.

- **OK Button:** Confirms selections or captures an image.
- **Up/Down Buttons:** Navigate through menu options or adjust settings.
- **Back Button:** Returns to the previous menu or screen.

6.4. Capturing Images

1. Point the camera lens towards the area you wish to inspect.
2. Observe the thermal image on the display.
3. Press the 'OK' button to capture and save the thermal image to the installed microSD card.

6.5. Selecting Color Palettes

The camera offers 3 selectable color palettes to visualize temperature differences. Consult the on-screen menu to cycle through available palettes and choose the one best suited for your application.

6.6. Changing Temperature Units (°C/°F)

Access the device's settings menu using the navigation buttons to switch between Celsius and Fahrenheit temperature units.

6.7. Reviewing Saved Images

Navigate to the image gallery or review mode through the device's menu to view previously captured thermal images from the microSD card.

6.8. Typical Applications



Image 6.2: Inspecting an engine bay for heat signatures, indicating potential issues like coolant leaks or overheating components.



Image 6.3: Checking a ceiling vent for drafts or insulation deficiencies, helping to identify areas of heat loss or gain in a building.

7. MAINTENANCE

7.1. Cleaning

- Wipe the exterior of the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Keep the lens clean and free of dust or smudges for optimal performance. Use a lens cleaning cloth if necessary.

7.2. Storage

- When not in use, store the camera in its provided storage pouch to protect it from dust and physical damage.

- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your OEMTOOLS 24552 Thermal Imaging Camera, refer to the following common solutions:

- **Device not turning on:** Check battery installation and ensure batteries are fresh.
- **Display is blank or frozen:** Try removing and reinserting the batteries. If the issue persists, contact customer support.
- **Images not saving:** Ensure a compatible microSD card is properly inserted and has sufficient free space.
- **Inaccurate temperature readings:** Ensure the lens is clean and there are no obstructions. Verify the correct temperature unit (°C/°F) is selected.

9. SPECIFICATIONS

Feature	Specification
Model Number	24552
Temperature Range	-4°F to 1,202°F (-20°C to 650°C)
Temperature Accuracy	+/- 2%
Display Type	1.8" LCD Color Display
Color Palettes	3 Selectable
Temperature Units	Celsius (°C) or Fahrenheit (°F)
Power Source	4x 1.5V AAA Batteries (not included)
Image Storage	MicroSD Card (not included)
Connectivity	Mini USB
Item Weight	14 ounces
Product Dimensions	10.1 x 6.5 x 3.2 inches
Outer Material	Plastic

10. WARRANTY INFORMATION

The OEMTOOLS 24552 Thermal Imaging Camera comes with a **Limited One Year Warranty** from OEMTOOLS. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or visit the official OEMTOOLS website.

11. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact OEMTOOLS customer support:

- **Website:** Visit the official OEMTOOLS website for support resources and contact information.
- **Phone:** Refer to the contact details provided on the OEMTOOLS website or product packaging.

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