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MiLESEEY TR256E

MILESEEY TR256E Thermal Imaging Camera User Manual

Model: TR256E | Brand: MiLESEEY

1. Introduction

The MILESEEY TR256E is a high-resolution thermal imaging camera designed for precise temperature measurement and thermal analysis. This device is suitable for various applications including electrical inspections, HVAC maintenance, and building diagnostics. This manual provides essential information for the safe and effective operation of your TR256E thermal camera.

2. Key Features

- **Super Resolution Thermal Imaging:** Equipped with a 256 x 192 infrared detector for clear thermal images.
- **High Refresh Rate:** 50Hz refresh rate ensures smooth, real-time thermal monitoring.
- **High-Precision Temperature Measurement:** Achieves a temperature resolution of 0.1°C with a NETD of 40mK for detailed analysis.
- **Wide Temperature Range:** Measures temperatures from -4°F to 662°F (-20°C to 350°C).
- **Long Battery Life:** Integrated 5000mAh battery provides up to 12 hours of continuous operation.
- **Multiple Color Palettes:** Four distinct color palettes (Iron, Rainbow, Black Hot, White Hot) for enhanced visualization.
- **Integrated LED Flashlight:** Provides illumination in low-light conditions.
- **Durable Design:** Passed 6.6ft drop resistance tests for reliability in rugged environments.
- **Data Transfer:** Supports real-time image transmission and data storage via SD card and USB connection.

3. Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- MILESEEY TR256E Thermal Imager

- Charger
- Instruction Manual
- USB-C Charging Cable
- 16GB Micro SD Card (pre-installed or included separately)

4. Product Overview

Familiarize yourself with the components of your MILESEEY TR256E thermal imaging camera.



Front view of the MILESEEY TR256E Thermal Imaging Camera, showing the display screen and control buttons.



Close-up of the 2.8-inch LCD screen and the built-in flashlight on the MILESEEY TR256E.

4.1 Controls and Ports

- **Power Button:** Located on the front panel, used to power the device on/off.
- **Navigation Buttons:** Up, Down, Left, Right, and OK buttons for menu navigation and selection.
- **Trigger Button:** Located on the handle, used to capture images or start/stop video recording.
- **USB-C Port:** For charging and data transfer to a computer.
- **Micro SD Card Slot:** For expandable storage of thermal images and videos.

5. Setup

5.1 Charging the Device

Before first use, fully charge the thermal camera. Connect the provided USB-C cable to the camera's USB-C port and the other end to a suitable USB power adapter (not included) or a computer's USB port. The charging indicator will show the

charging status. A full charge typically takes several hours.

5.2 Power On/Off

- **To Power On:** Press and hold the Power button until the screen illuminates. The device will perform a self-check and be ready for use in approximately 26 seconds.
- **To Power Off:** Press and hold the Power button until the shutdown prompt appears, then confirm.

5.3 SD Card Installation

The device comes with a 16GB Micro SD card. Ensure it is properly inserted into the Micro SD card slot before capturing images or videos. The slot is typically located on the side or bottom of the device, protected by a rubber cover.

6. Operating Instructions

6.1 Basic Operation

Once powered on, point the camera at the object or area you wish to inspect. The thermal image will be displayed on the screen, showing temperature variations. The camera automatically tracks the highest, lowest, and center temperatures.



The TR256E displaying a thermal image with real-time temperature readings and indicators for maximum, minimum, and center temperatures.

6.2 Temperature Measurement

The TR256E provides accurate temperature readings. The screen displays the maximum, minimum, and central temperature points within the field of view. Adjust the emissivity setting in the menu for different surface types to ensure accurate measurements.

6.3 Color Palettes

The camera offers four color palettes to visualize thermal data. To change the palette, navigate through the menu settings. Each palette highlights temperature differences in a unique way:

- **Iron:** A common palette, good for general use.
- **Rainbow:** Provides a wide spectrum of colors for subtle temperature variations.
- **Black Hot:** Hotter areas appear darker.
- **White Hot:** Hotter areas appear brighter.



Illustration of the four available thermal palettes: Iron, Rainbow, Black Hot, and White Hot, demonstrating how they visualize temperature data differently.

6.4 Image and Video Capture

To capture an image, press the trigger button once. To record a video, press and hold the trigger button to start, and press again to stop. All captured media is saved to the Micro SD card.

6.5 Data Transfer

You can transfer images and videos from the camera to a computer using two methods:

- **USB Connection:** Connect the camera to your computer using the USB-C cable. The camera can function as a USB mass storage device, allowing you to access files directly. Some models also support real-time screen projection and analysis software when connected via USB.
- **SD Card Reader:** Remove the Micro SD card from the camera and insert it into a compatible card reader connected to your computer.



The MILESEEY TR256E connected to a laptop, illustrating real-time image transmission and data analysis capabilities.

6.6 LED Flashlight

The built-in LED flashlight can be activated from the menu to provide additional illumination in dark environments, assisting with visual inspections alongside thermal imaging.

Your browser does not support the video tag.

Official product video demonstrating the features and applications of the MILESEEY TR256E Thermal Imaging Camera, including its use in equipment inspection and HVAC maintenance.

7. Maintenance

7.1 Cleaning

Regularly clean the camera lens and screen with a soft, lint-free cloth. Do not use abrasive cleaners or solvents. For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by drying.

7.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the device in a cool, dry place when not in use for extended periods. Charge the battery periodically if stored for a long time to prevent deep discharge.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the battery. If the issue persists, contact customer support.
Thermal image is blurry or unclear.	Dirty lens; incorrect focus (if applicable); environmental factors.	Clean the lens. Ensure proper distance to the object.
Inaccurate temperature readings.	Incorrect emissivity setting; distance to object too far.	Adjust emissivity for the target surface. Ensure appropriate measurement distance.
Cannot save images/videos.	SD card full or not inserted correctly; SD card error.	Check SD card insertion. Delete old files or replace SD card. Format SD card (this will erase all data).

9. Specifications

Feature	Detail
Thermal Resolution	256 x 192 pixels
Refresh Rate	50 Hz
Temperature Range	-4°F to 662°F (-20°C to 350°C)
Temperature Accuracy	±2°C or ±2% (whichever is greater)
NETD (Noise Equivalent Temperature Difference)	40mK
Display Screen	2.8-inch LCD
Battery Type	1 Lithium Ion battery (included)
Battery Capacity	5000mAh
Battery Life	Up to 12 hours
Drop Resistance	6.6 ft (2 meters)
Product Dimensions	2.76 x 2.36 x 9.06 inches
Weight	1.68 Pounds
Storage	Micro SD Card (16GB included)
Connectivity	USB-C

10. Safety Information

Please read and understand all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not point the camera directly at strong heat sources (e.g., the sun, lasers) as this may damage the detector.
- Do not disassemble or modify the device. Repairs should only be performed by authorized service personnel.
- Keep the device dry. Do not expose it to rain or moisture.
- Use only the specified charger and accessories.
- Dispose of batteries and electronic components according to local regulations.

11. Warranty and Support

The MILESEEY TR256E Thermal Imaging Camera comes with a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, service, or inquiries, please contact MILESEEY customer service through their official website or the contact information provided in your product documentation.
For additional support and resources, visit the MiLESEEY Store on Amazon.

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