MILESEEY TR10

MILESEEY TR10 Thermal Camera User Manual

Model: TR10

1. Product Overview

The MILESEEY TR10 is a high-resolution portable infrared thermal camera designed for accurate temperature measurement and rapid anomaly detection across various applications. It features a 240x240 super resolution, a 25 Hz refresh rate, and a wide temperature range, making it an essential tool for industrial maintenance, electrical inspections, construction diagnostics, and HVAC.



Figure 1: Front and back view of the MILESEEY TR10 Thermal Camera, showcasing its ergonomic design and display screen.

2. Key Features

- **High Resolution Thermal Imaging:** Equipped with a 240 x 240 infrared resolution and a 25 Hz refresh rate for clear and fluid thermal images, facilitating easy problem inspection.
- **Precise Temperature Measurement:** Offers a temperature range of -20 °C to 550 °C (-4 °F to 1022 °F) with an accuracy of ±2 °C and a thermal sensitivity (NETD) of < 50 mk. Automatically displays maximum, minimum, and center point temperatures.
- **Rapid Anomaly Detection:** Features high/low temperature alarms to alert users to areas exceeding or falling below preset temperature thresholds, aiding in identifying overheating components or structural anomalies.
- **Adjustable Emissivity:** Allows users to adjust emissivity settings to match different materials, ensuring accurate

temperature readings across various surfaces.

- **Durable Design & Extended Battery Life:** Built to withstand a 2-meter drop test and features a recessed lens for protection. The 3000 mAh battery supports up to 8 hours of continuous operation.
- **Ample Storage:** Includes 8 GB of built-in storage, capable of holding over 30,000 images.
- **Versatile Applications:** Ideal for industrial maintenance, electrical inspections, building diagnostics, and HVAC system analysis.

3. Safety Information

Please read all safety warnings and instructions carefully before using the MILESEEY TR10 Thermal Camera. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not point the camera directly at extremely high-intensity heat sources (e.g., the sun, lasers) as this may damage the detector.
- Ensure the device is used within its specified operating temperature and humidity ranges.
- 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 charging accessories.

4. Setup

4.1. Unboxing and Initial Inspection

Carefully remove the MILESEEY TR10 from its packaging. Inspect the device for any signs of damage. Ensure all components listed in the packing list are present.

4.2. Charging the Battery

The device comes with a built-in 3000 mAh Lithium metal battery. Before first use, fully charge the battery using the provided USB-C cable and a compatible power adapter.

1. Connect the USB-C cable to the charging port on the device.
2. Connect the other end of the USB-C cable to a USB power source (e.g., computer USB port, wall adapter).
3. The charging indicator on the device will show the charging status. A full charge typically takes several hours.



Figure 2: The MILESEEY TR10 features an extended 8-hour battery life from its 3000 mAh rechargeable battery, with auto power-off options and adjustable screen brightness.

5. Operating Instructions

5.1. Powering On/Off

To power on the device, press and hold the power button until the screen illuminates. To power off, press and hold the power button again until the device shuts down.

5.2. Basic Measurement

Once powered on, the camera will display a thermal image. The screen will show real-time temperature readings, including the center point temperature, and automatically track the highest and lowest temperatures within the field of

view.



Figure 3: The MILESEEY TR10 automatically tracks and displays high and low temperature points, enhancing the identification of anomalies. It also features a high/low temperature alarm.

5.3. Adjusting Settings

Use the navigation buttons (up, down, left, right) and the 'SET' button to navigate through the menu and adjust settings such as:

- **Emissivity:** Adjust this setting based on the material being inspected for accurate temperature readings. Common emissivity values can be found in the specifications section or online resources.
- **Temperature Units:** Switch between Celsius (°C) and Fahrenheit (°F).
- **Color Palettes:** Select different color schemes for thermal imaging display (e.g., Iron, Rainbow, Gray).
- **High/Low Temperature Alarm:** Set thresholds for audible or visual alerts when temperatures exceed or fall below specified limits.
- **Auto Power-Off:** Configure the device to automatically shut down after a period of inactivity (e.g., 5, 10, 30 minutes) to

conserve battery life.

- **Screen Brightness:** Adjust the display brightness (Low/Mid/High) for optimal viewing in different lighting conditions.

5.4. Capturing and Storing Images

To capture a thermal image, press the designated capture button (refer to the device's physical layout for exact button location). Images are automatically saved to the internal 8 GB storage.



Figure 4: The MILESEEY TR10 allows for real-time picture transfer to any PC via a USB-C cable. It has an 8GB storage capacity, capable of storing over 30,000 images.

5.5. Transferring Data to PC

Connect the MILESEEY TR10 to a computer using the provided USB-C cable. The device will appear as a removable storage device, allowing you to access and transfer captured images.

6. Maintenance

6.1. Cleaning the Device

Regularly clean the device to ensure optimal performance. Use a soft, dry cloth to wipe the body of the camera. For the lens, use a specialized lens cleaning cloth and solution to avoid scratching.

- Do not use abrasive cleaners, solvents, or strong chemicals.
- Ensure the device is powered off before cleaning.

6.2. Storage

When not in use, store the MILESEEY TR10 in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to store it in its original packaging or a protective case to prevent damage.

6.3. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, charge the battery to approximately 50% and recharge every few months.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted.	Charge the battery fully.
Image is blurry or unclear.	Lens is dirty; incorrect focus (if applicable); object too close/far.	Clean the lens; ensure proper distance to the object.
Inaccurate temperature readings.	Incorrect emissivity setting; environmental factors.	Adjust emissivity for the material; ensure stable environment.
Cannot transfer images to PC.	Faulty USB cable; incorrect connection; driver issue.	Try a different USB port/cable; ensure device is powered on and connected correctly.

If the problem persists after attempting these solutions, please contact MILESEEY customer support for further assistance.

8. Specifications

Feature	Detail

Feature	Detail
Model Number	TR10
Infrared Resolution	240 x 240 pixels
Refresh Rate	25 Hz
Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
Temperature Accuracy	±2 °C or ±2% (whichever is greater)
Thermal Sensitivity (NETD)	< 50 mk
Battery Type	1 x 3000 mAh Lithium Metal (included)
Battery Life	Up to 8 hours continuous operation
Internal Storage	8 GB (stores over 30,000 images)
Drop Test Rating	2 meters
Dimensions (Package)	26.8 x 12.9 x 11.6 cm
Weight (Package)	620 grams

9. Warranty and Support

MILESEEY products are designed and manufactured to the highest quality standards. For information regarding warranty coverage and technical support, please refer to the warranty card included with your product or visit the official MILESEEY website.
For customer service inquiries, please contact:

- **Manufacturer:** Mileseey
- **Website:** www.mileseey.com (*Note: This is a placeholder URL, please refer to your product documentation for the official support website.*)

Please have your model number (TR10) and purchase date available when contacting support.

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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.

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