MiLESEEY TR10

MILESEEY TR10 Thermal Imaging Camera

USER MANUAL

1. Introduction

Thank you for choosing the MILESEEY TR10 Thermal Imaging Camera. This handheld infrared imager is designed for accurate and efficient temperature measurement across various applications, including industrial maintenance, electrical inspections, building diagnostics, and HVAC inspections. Featuring a super resolution of 240 x 240 pixels and a 25 Hz refresh rate, the TR10 provides clear and smooth thermal images, enabling easy identification of problems. This manual provides essential information for the safe and effective operation of your device.



Figure 1: MILESEEY TR10 Thermal Imaging Camera, showing its ergonomic design and display interface.

2. Setup

2.1 Initial Charging

Before first use, ensure the TR10 camera is fully charged. The device is equipped with a 3000mAh rechargeable battery, supporting up to 8 hours of continuous operation. Connect the camera to a power source using the provided USB-C cable.

2.2 Powering On/Off

- **To Power On:** Press and hold the power button (usually marked with a red circle or power symbol) located on the device. The display will illuminate.
- **To Power Off:** Press and hold the power button again until the display shuts down.

2.3 Basic Controls

Familiarize yourself with the buttons and their functions:

- **SET Button:** Used to confirm selections or enter menu options.
- **Navigation Buttons:** Typically used to navigate through menus and adjust settings.
- **Trigger:** Located on the handle, used to capture images or activate specific functions.

3. Operating the Camera

3.1 High Resolution Thermal Imaging

The TR10 features a 240 x 240 super high resolution and a 25 Hz frame refresh rate, providing clear and smooth thermal images for easy problem inspection.



Figure 2: Display showcasing the 240x240 super resolution and 25Hz frame rate for high clarity.

3.2 Accurate Temperature Measurement

This thermal imager boasts a high thermal sensitivity (NETD <50mk) and a wide temperature range of -4°F to 1022°F (-

20°C to 550°C), with an accuracy of ±2°C. It automatically locks and displays the maximum, minimum, and center-point temperatures within the scanned area, enhancing efficiency in identifying hot spots or anomalies.



Figure 3: The TR10 displaying accurate temperature readings within its specified range.

3.3 Fast Anomaly Recognition and Alarms

The High/Low Temperature Alarm feature alerts users to areas exceeding or falling below preset temperature thresholds. This function is crucial for detecting anomalies in temperature patterns, such as overheating components or structural abnormalities.

3.4 Adjustable Emissivity

The TR10 allows users to adjust emissivity settings based on different material surfaces. This ensures accurate temperature readings across diverse surfaces and objects, which is critical for reliable thermal inspections.

3.5 Auto Hot & Cold Spot Tracking

The camera automatically tracks and highlights the hottest and coldest points within the thermal image, simplifying the

identification of critical temperature variations.



Figure 4: The TR10's display indicating automatic tracking of high and low temperature points.

3.6 Data Storage and Transfer

The TR10 has a built-in 8GB storage capacity, capable of storing over 30,000 pictures. Images can be transferred to a PC in real-time using the USB-C cable.



Figure 5: Transferring thermal images from the TR10 to a computer via USB-C connection.

4. Maintenance

4.1 Cleaning

- Use a soft, dry cloth to clean the camera body.
- For the lens, use a lens cleaning cloth and solution specifically designed for optical lenses. Avoid abrasive materials.
- Do not use strong solvents or corrosive chemicals.

4.2 Battery Care

- Charge the battery regularly, even if the device is not in frequent use, to maintain battery health.
- Avoid fully discharging the battery frequently.
- Store the camera in a cool, dry place when not in use for extended periods.

4.3 Storage

Store the camera in its protective casing or a safe environment to prevent damage from drops or impacts. The TR10 is designed to withstand a 6.6ft drop test, but proper storage extends its lifespan.

5. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Low battery; Power button not pressed correctly	Charge the device; Press and hold the power button firmly for a few seconds.
Inaccurate temperature readings	Incorrect emissivity setting; Lens is dirty; Object too far or too close	Adjust emissivity for the material being measured; Clean the lens; Ensure object is within optimal measurement distance.
Image is blurry or pixelated	Lens is dirty; Device malfunction	Clean the lens; If problem persists, contact customer support.
Cannot transfer images to PC	USB cable faulty; Driver issue; Incorrect connection	Try a different USB-C cable; Ensure proper connection; Check PC for necessary drivers or try a different USB port.

6. Specifications

Feature	Specification
Resolution	240 x 240 pixels
Frame Rate	25 Hz
Temperature Range	-4°F to 1022°F (-20°C to 550°C)
Accuracy	±2°C
Thermal Sensitivity (NETD)	<50mk
Display	2.8" LCD
Battery Capacity	3000mAh
Battery Life	Up to 8 hours continuous operation
Storage Capacity	8GB (stores over 30,000 pictures)
Drop Test Rating	6.6 ft
Connectivity	USB-C for data transfer, Wi-Fi
Recommended Uses	Outdoor, Indoor, Industry, Inspection

7. Warranty and Support

For information regarding warranty coverage, please refer to the warranty card included with your product packaging or visit the official MILESEEY website. If you encounter any issues not covered in the troubleshooting section or require

further assistance, please contact MILESEEY customer support through the contact information provided on the official website or product documentation.

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

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