MiLESEEY TR10

MiLESEEY TR10 Thermal Imaging Camera User Manual

Model: TR10 | Brand: MiLESEEY

1. Introduction

Thank you for choosing the MiLESEEY TR10 Thermal Imaging Camera. This handheld infrared imager is designed for precise temperature measurement and anomaly detection across a wide range of applications, from home inspections to industrial maintenance. This manual provides essential information for safe and effective operation of your device.



Image: The MiLESEEY TR Series, highlighting the TR10 model's design.

2. Package Contents

Ensure all items are present in your package:

- MiLESEEY TR10 Thermal Imager
- USB-C Charging Cable
- Instruction Manual
- Lanyard



Image: The MiLESEEY TR10 Thermal Imaging Camera with its included accessories.

3. Device Overview

The TR10 features a robust design with intuitive controls for ease of use.

3.1 Physical Components

- **Thermal Lens:** Located at the front, captures infrared radiation.
- **LCD Display:** 2.8-inch screen for real-time thermal images and data.
- **Power Button (Red):** Turns the device on/off.
- **Navigation Buttons (Up/Down/Left/Right/Set):** For menu navigation and setting adjustments.
- **Snapshot/Record Button:** Captures thermal images or starts/stops video recording.
- **Trigger:** Located on the handle, used to capture snapshots.
- **USB-C Port:** For charging and data transfer.
- **Tripod Mount:** Standard 1/4-inch thread at the base for mounting.

- **Lanyard Attachment Point:** For securing the device.



Image: Front and back views of the MiLESEEY TR10, showing the lens, display, and control buttons.

4. Setup

4.1 Charging the Device

Before first use, fully charge the TR10 using the provided USB-C cable and a compatible power adapter. The battery indicator on the display will show charging status.

4.2 Attaching the Lanyard

Attach the included lanyard to the attachment point at the base of the handle for secure handling during operation.

4.3 Powering On/Off

- **To Power On:** Press and hold the red Power Button until the MiLESEEY logo appears on the screen.

- **To Power Off:** Press and hold the red Power Button until the 'Shutdown!' message appears and the device powers down.

4.4 Initial Settings

Upon first power-on, you may need to configure basic settings:

- **Language:** Navigate to 'Settings' > 'Language' to select your preferred language.
- **Date & Time:** Adjust the date and time for accurate timestamping of captured images/videos.
- **Temperature Units:** Select between Celsius (°C) or Fahrenheit (°F) in the 'Settings' menu.

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Video: An unboxing and initial setup guide for the MiLESEEY TR10, demonstrating power-on and basic menu navigation.

5. Operating Instructions

5.1 Basic Thermal Imaging

Once powered on, the device will immediately display a real-time thermal image. The screen will show temperature readings, including maximum, minimum, and center-point temperatures, along with a color palette indicating temperature distribution.



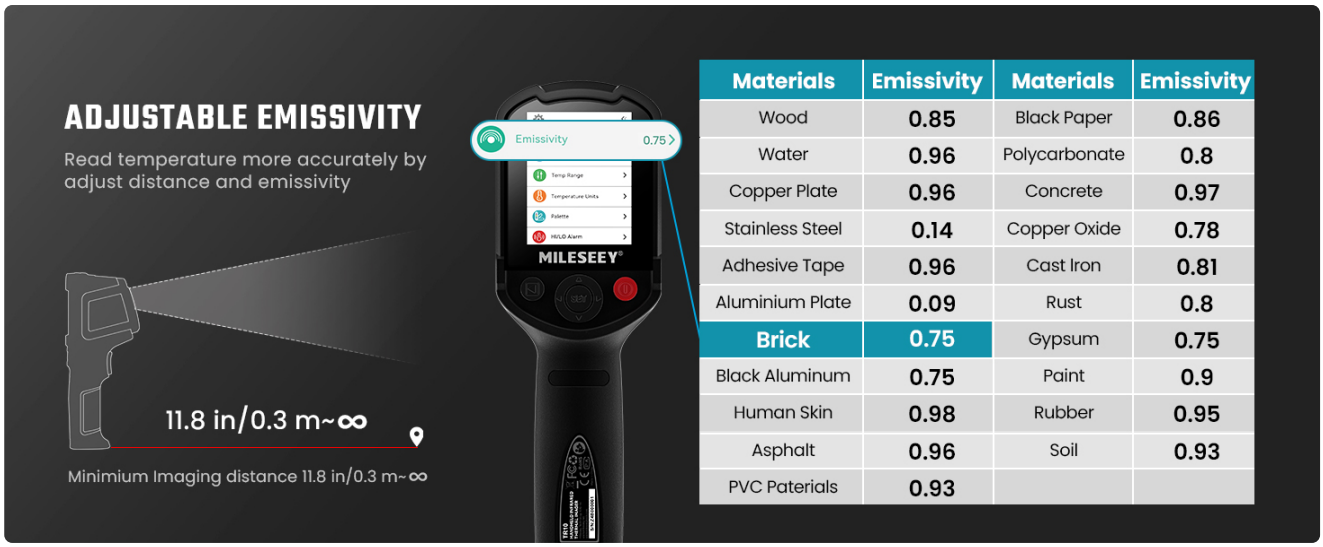
Image: The MiLESEEY TR10 displaying accurate temperature measurements on its screen.

5.2 Capturing Images and Videos

- **To Take a Snapshot:** Aim the camera at your target and press the trigger button on the handle. A confirmation message will appear.
- **To Record Video:** (Refer to manual for specific video recording steps if available, as this feature is mentioned in general but not detailed in JSON).

5.3 Viewing Saved Media

Press the 'Album' button (usually the left-most button below the screen) to access your saved images and videos. Use the navigation buttons to browse through files.



Materials	Emissivity	Materials	Emissivity
Wood	0.85	Black Paper	0.86
Water	0.96	Polycarbonate	0.8
Copper Plate	0.96	Concrete	0.97
Stainless Steel	0.14	Copper Oxide	0.78
Adhesive Tape	0.96	Cast Iron	0.81
Aluminium Plate	0.09	Rust	0.8
Brick	**0.75**	Gypsum	0.75
Black Aluminum	0.75	Paint	0.9
Human Skin	0.98	Rubber	0.95
Asphalt	0.96	Soil	0.93
PVC Paterials	0.93		

Image: The MiLESEEY TR10 connected via USB-C to a PC, showing stored thermal images.

5.4 Advanced Settings

Access the 'Settings' menu by pressing the 'Set' button (center button below the screen) to adjust the following:

- **Emissivity:** Adjust this setting based on the material being inspected for accurate temperature readings. A chart of common materials and their emissivity values is usually provided in the full manual.
- **Distance:** Set the measurement distance for optimal accuracy.
- **Temperature Range:** Select between 'Normal' (-4°F to 302°F) or 'High' (212°F to 1022°F) depending on your application.
- **Palette:** Choose from various color palettes (e.g., White Hot, Black Hot, Iron, Rainbow, Blend, Red Hot) to visualize temperature differences effectively.
- **High/Low Alarm:** Set temperature thresholds to trigger visual or audible alarms when anomalies are detected.
- **Display Brightness:** Adjust screen brightness (Low, Mid, High).
- **USB Mode:** Configure for data transfer to a PC.
- **Snap Mode:** Adjust settings related to image capture.

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Video: A demonstration of the MiLESEEY TR10's various settings and features, including temperature units and palette options.

6. Features

- **High Definition Thermal Imaging:** Enhanced 192×192 infrared sensor with a 25Hz refresh rate for smooth, real-time image transitions and detailed recognition.
- **Accurate Temperature Measurement:** High thermal sensitivity (NETD <50mk) with a temperature range of -4°F to 1022°F and ±2°C accuracy. Automatically locks and displays max, min, and center-point temperatures.
- **Fast Anomaly Recognition:** High/Low Temperature Alarm alerts users to areas exceeding or falling below preset temperatures.
- **Adjustable Emissivity:** Allows users to adjust emissivity settings for accurate readings across diverse materials.
- **Durable and Sturdy:** Designed to withstand a 6.6ft drop test and features recessed lens protection.
- **Extended Battery Life:** 3000mAh battery supports 8-hours of continuous operation.
- **Ample Storage:** Built-in 8GB storage capacity can store over 30,000 pictures.

- **USB-C Connectivity:** Easy picture transfer to any PC.



Image: The MiLESEEY TR10 demonstrating auto hot and cold spot tracking on its display.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device body. For the lens, use a specialized lens cleaning cloth and solution.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, ensure the battery is charged to approximately 50-70% to prolong its lifespan.

8. Troubleshooting

- **Device Not Powering On:** Ensure the battery is charged. If fully charged, try a factory reset (refer to settings menu).
- **Inaccurate Temperature Readings:** Check and adjust emissivity settings for the material being measured. Ensure the measurement distance is within the recommended range.
- **Display Issues:** Adjust display brightness in the settings. If the issue persists, try a factory reset.
- **Cannot Transfer Files:** Ensure the USB-C cable is properly connected and the device is in USB mode (check settings).

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Video: A quick look at the MiLESEEY TR10, demonstrating its ease of use and various display modes, which can aid in troubleshooting.

9. Specifications

Feature	Specification
Product Dimensions	2.99 x 3.58 x 8.82 inches; 1.32 Pounds

Item Model Number	TR10
Batteries	1 Lithium Ion battery required (included)
Manufacturer	MiLESEEY
Special Feature	SUPER RESOLUTION
Connectivity Technology	Wired (USB-C)
Power Source	Battery Powered
Indoor/Outdoor Usage	Indoor

10. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official MiLESEEY website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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