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MiLESEEY TR256EUS

MiLESEEY TR256E Thermal Imaging Camera User Manual

Model: TR256EUS | Brand: MiLESEEY

Introduction

Welcome to the user manual for the MiLESEEY TR256E Thermal Imaging Camera. This device is designed for precise temperature measurement and thermal analysis across various applications, including HVAC inspection, industrial maintenance, and electrical diagnostics. Its advanced features provide clear and reliable thermal data for professional use.

Key Product Features

- **Super Resolution Thermal Imaging:**
  Equipped with a 256 x 192 ultra-high resolution infrared detector and a 50Hz refresh rate for smooth, real-time thermal imaging.



Image showing the MiLESEEY TR256E thermal camera in use, highlighting its 256x192 super resolution and 50Hz frame rate for clear thermal imaging.

- **High-Precision Temperature Measurement:**

  Achieves a temperature resolution of 0.1°C with a NETD of 40mK, ensuring sensitivity to subtle temperature changes.

- **Extended Battery Life & Durability:**

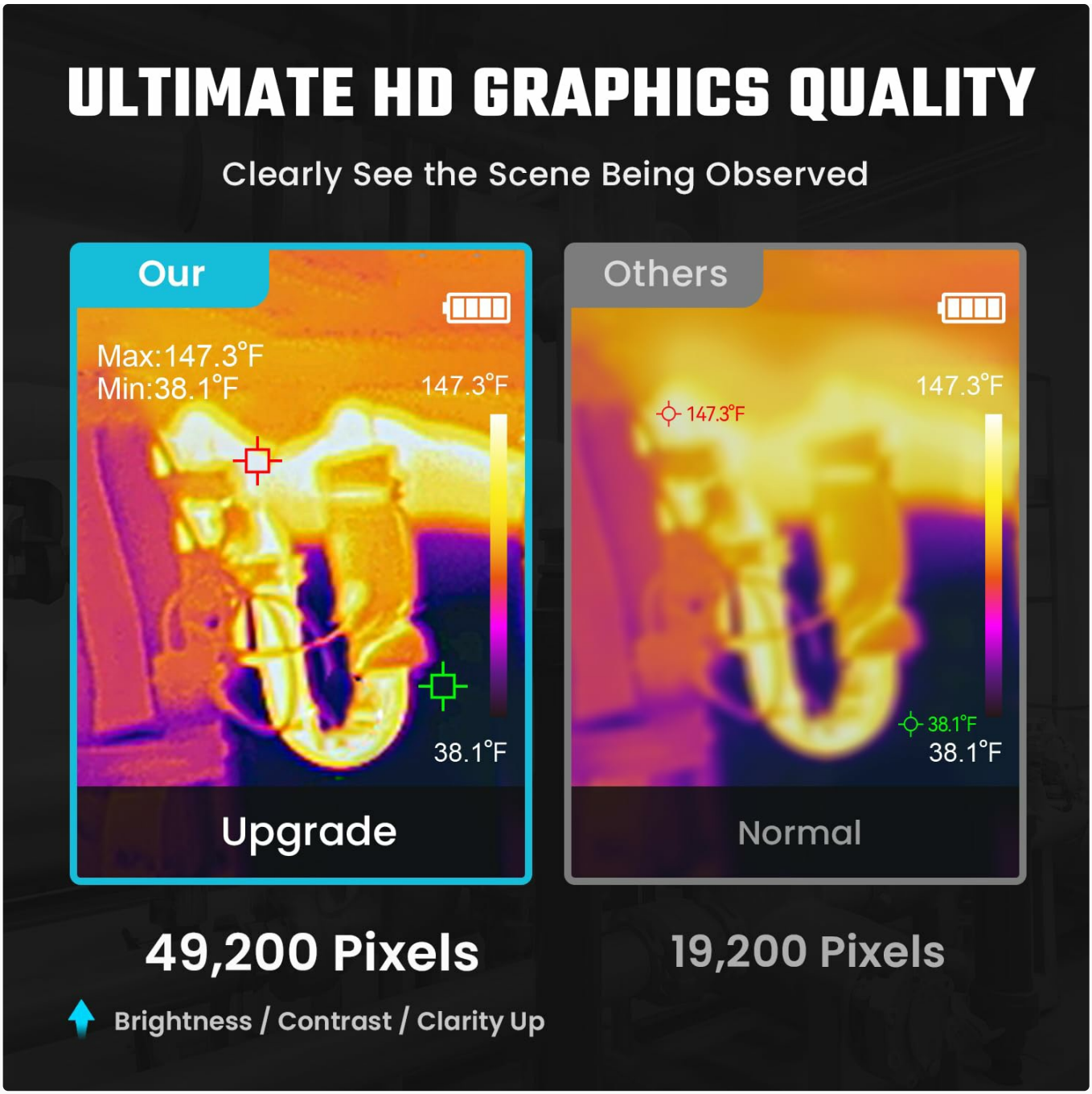
  Features a powerful 5000mAh battery providing up to 12 hours of operational time. Designed to withstand rugged environments, having passed 6.6ft drop resistance tests.



Visual representation of the MiLESEEY TR256E's 12-hour battery life, powered by a 5000mAh rechargeable battery.

- **2.8-inch LCD Large Screen:**

  Offers an expansive display for clear thermal detection.



The 2.8-inch LCD screen of the MiLESEEY TR256E, providing a large display for thermal imaging.

- **Four Color Palettes:**

  Select from Iron, Rainbow, Black Hot, and White Hot to visualize thermal data effectively.



An illustration of the four available thermal color palettes: Iron, Rainbow, Black Hot, and White Hot, for varied thermal data visualization.

- **Built-in LED Flashlight:**

  Provides additional illumination for inspections in low-light conditions.



The MiLESEEY TR256E's built-in LED flashlight illuminating a dark area, demonstrating its utility in low-light conditions.

- **USB Plug-and-Analyze:**

  Supports real-time screen projection and offline heat map analysis via USB connection to a PC.



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

- **Wide Application:**

  Suitable for vehicle diagnosis, HVAC inspection, industrial maintenance, and electrical inspection.



A technician using the MiLESEEY TR256E for HVAC maintenance, demonstrating its application in professional settings.



An image showing the MiLESEEY TR256E being used for electrical inspection, highlighting its utility in identifying thermal anomalies in electrical systems.

What's Included

- MiLESEEY TR256E Thermal Imager
- Charger
- User Manual

Setup Guide

Initial Charging

Before first use, fully charge the MiLESEEY TR256E using the provided charger. The device is equipped with a 5000mAh battery.

Powering On

Press and hold the power button located on the device. The camera will take approximately 26 seconds to fully boot and display the thermal image.

Operating Your Thermal Camera

Basic Operation

Once powered on, the camera continuously displays a real-time thermal image.

Temperature Measurement

The screen displays maximum and minimum temperature spots. The device provides accurate temperature readings with a resolution of 0.1°C.

Color Palettes

The TR256E offers four distinct color palettes to enhance visualization of thermal data:

- Iron
- Rainbow
- Black Hot
- White Hot

Adjust the color palette according to the environment and specific analysis needs for optimal clarity.

Capturing Images and Videos

To capture a still image, pull the trigger. This will freeze the current frame. You can then choose to save it. The device also supports video recording. All captured data is stored on the internal memory.

Data Analysis with PC

Connect the TR256E to a computer via a USB-C cable. This allows for real-time screen projection and offline heat map analysis. The device supports full-frame real-time temperature analysis, real-time point/line/area temperature analysis, and 3D display of temperature data.

Your browser does not support the video tag.

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

Care and Maintenance

Battery Care

To maximize battery life, ensure the device is fully charged before prolonged use. The 5000mAh battery provides up to 12 hours of operation.

Cleaning

Use a soft, dry cloth to clean the device's exterior and screen. Avoid abrasive materials or harsh chemicals.

Storage

Store the thermal camera in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

Device Not Powering On

- Ensure the battery is sufficiently charged. Connect the device to the charger and allow it to charge for at least 30 minutes before attempting to power on again.
- Press and hold the power button firmly for several seconds.

Image Appears Unclear or Distorted

- Ensure the lens is clean and free from dust or smudges.
- Try switching between different color palettes to see if it improves clarity for your specific scenario.

Slow Boot Time

- A boot time of approximately 26 seconds is normal for this device. Please allow sufficient time for the system to initialize.

Technical Specifications

Feature	Detail
Model Number	TR256EUS
Product Dimensions	2.76 x 2.36 x 9.06 inches; 1.72 Pounds
Thermal Resolution	256 x 192

Refresh Rate	50 Hz
Temperature Range	-4°F to 662°F (-20°C to 350°C)
Temperature Resolution	0.1°C
NETD	40mK
Battery Type	1 Lithium Ion (included)
Battery Life	Up to 12 hours
Display	2.8 inch LCD
Drop Resistance	6.6 ft
Connectivity	USB-C
Special Feature	Built-in LED Flashlight, HD Resolution

Warranty and Support

For detailed warranty information and technical support, please refer to the official MiLESEEY website or contact their customer service directly. Keep your purchase receipt for warranty claims.

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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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