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MiLESEEY TR160i

MiLESEEY TR160i Thermal Imaging Camera User Manual

Model: TR160i

1. Introduction

The MiLESEEY TR160i is a compact and lightweight thermal imaging camera designed for use with Android smartphones, tablets, and computers. It provides accurate temperature measurements and vivid thermal images, making it suitable for a wide range of applications from home safety checks to industrial maintenance.

Key features include its ultra-lightweight 20g full metal body, 160x120 resolution with a 25Hz frame rate, and a broad temperature measurement range of -15°C to 600°C (5°F to 1112°F). Its seamless USB Type-C connectivity and comprehensive software suite enhance its versatility and ease of use.



Image 1.1: The MiLESEEY TR160i Thermal Imaging Camera, showcasing its compact design and Type-C connector.

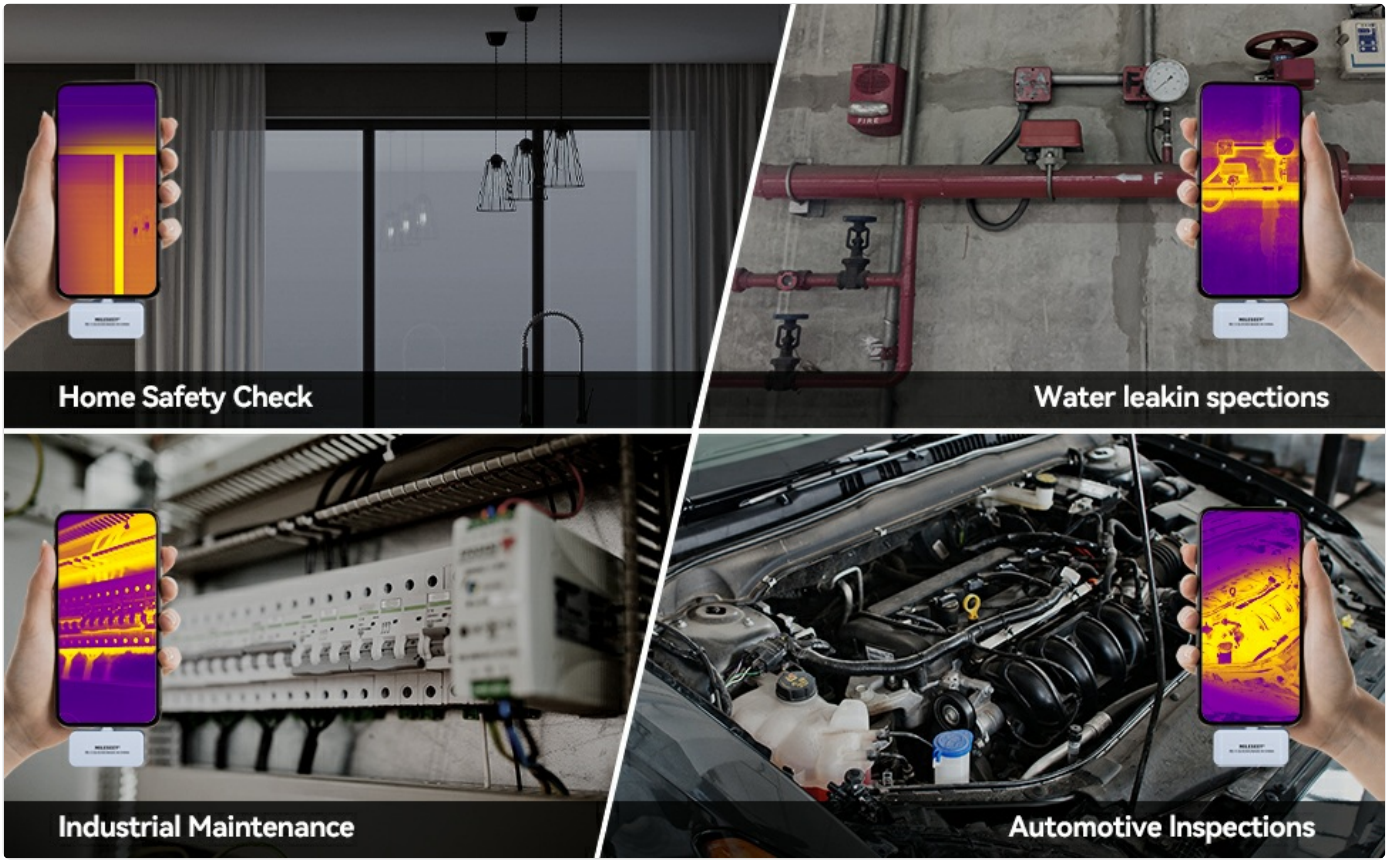


Image 1.2: Various applications of the TR160i, including home safety checks, water leak inspections, industrial maintenance, and automotive inspections.

2. Package Contents

Before proceeding with the setup, please verify that all items are present in your package:

- MiLESEEY TR160i Thermal Imaging Camera
- USB Extension Cable (Type-C)
- Protective Carrying Case
- Cleaning Cloth
- User Manual / Quick Start Guide



Image 2.1: Contents of the MiLESEEY TR160i package, including the camera, cable, case, and documentation.

3. Setup Guide

3.1. Software Installation

The MiLESEEY TR160i requires a dedicated application to function. Please download and install the 'MiLESEEY Thermal APP' on your Android device or computer.

1. For Android devices, scan the QR code below or visit the official download link: http://app.mileseey.net/Mileseey_Thermal_TR256i.apk
2. For computer installation, please refer to the official MiLESEEY website for the latest software version.
3. Follow the on-screen instructions to complete the installation. Ensure your device allows installations from unknown sources if downloading directly via APK.

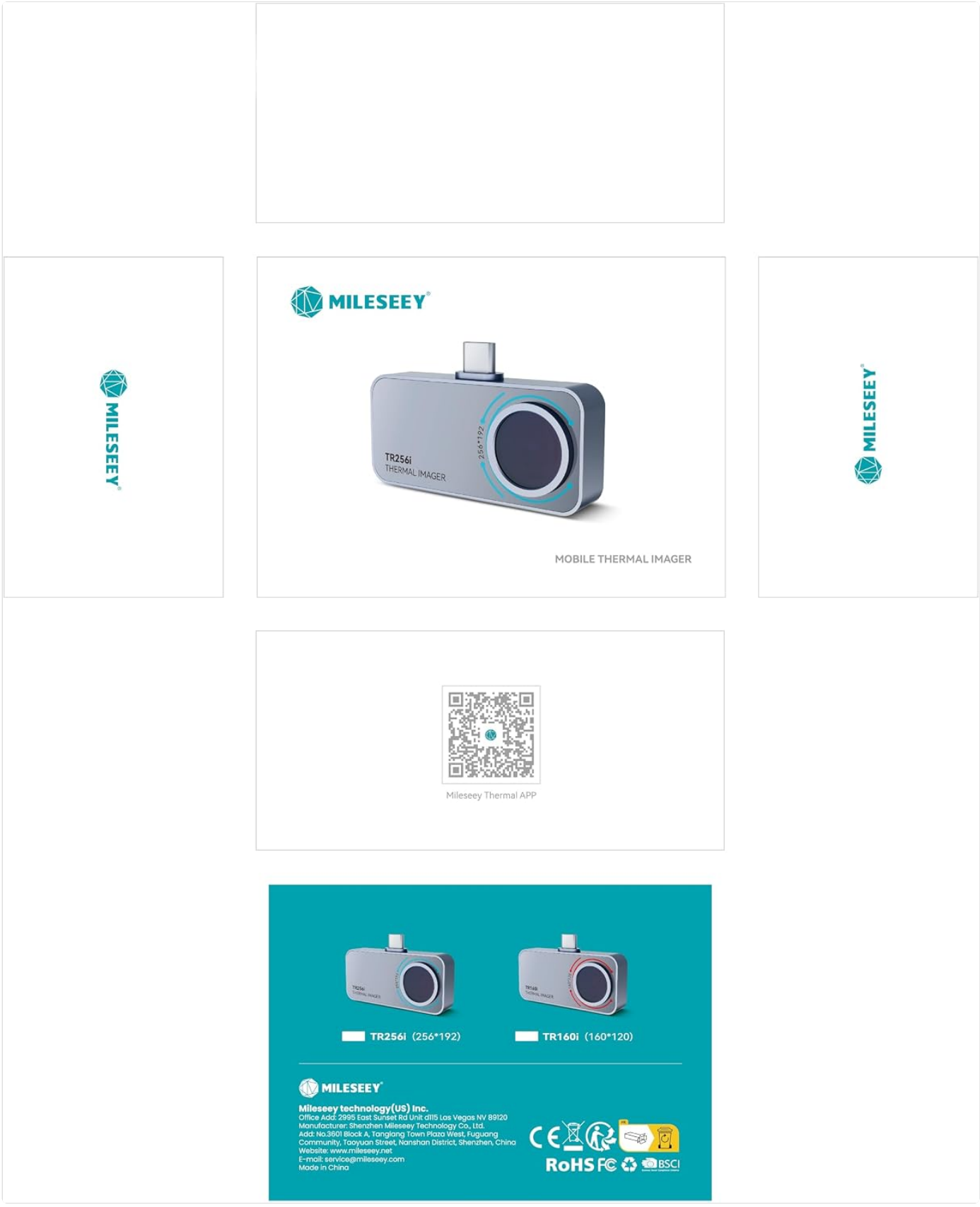


Image 3.1: QR code for downloading the MiLESEEY Thermal APP.

3.2. Connecting the Camera

1. Ensure the MiLESEEY Thermal APP is installed and running on your device.
2. Carefully plug the Type-C connector of the TR160i camera into the USB Type-C port of your Android smartphone, tablet, or computer.
3. If the port is difficult to reach or you need to maintain a safe distance from a heat source, use the provided USB extension cable.

4. The application should automatically detect the camera and display the thermal image.



Image 3.2: The TR160i connected to various devices, demonstrating its compatibility with Android phones, tablets, and computers.

4. Operating Instructions

4.1. Basic Operation

Once connected and the application is running, the thermal image will be displayed on your screen. The camera operates automatically, capturing thermal data.

- **Viewing Thermal Images:** Point the camera towards the object or area you wish to inspect. The thermal image will update in real-time.
- **Resolution and Frame Rate:** The TR160i provides a clear 160x120 resolution image at up to 25Hz, ensuring smooth thermal visualization.
- **Temperature Range:** The camera can accurately measure temperatures from -15°C to 600°C (5°F to 1112°F).



Image 4.1: A smartphone displaying a thermal image captured by the TR160i, along with key specifications like resolution and temperature range.

4.2. Advanced Features (MiLESEEY Thermal APP)

The accompanying software offers a suite of intelligent data analysis tools to enhance your thermal inspections:

- **Color Palettes:** Select from multiple color palettes to visualize temperature differences effectively (e.g., Iron, Rainbow, Grayscale).
- **Regional Temperature Measurement:** Define specific areas on the screen to get precise temperature readings for that region.
- **Temperature Tracking:** Track the temperature of a specific point or area over time.
- **Highlight Rectangle Temperature:** Isolate and highlight temperature readings within a user-defined rectangular area.
- **High Temperature Alarm:** Set thresholds for high temperatures, and the app will alert you when these are exceeded.
- **Highlight High-temperature Regions:** Automatically highlight areas exceeding a certain temperature, making hot

spots easily identifiable.



Image 4.2: An illustration of the MiLESEEY Thermal APP interface, showing various measurement and analysis tools available.



Image 4.3: Comparison of the TR160i's higher sensitivity (<50mK NETD) and infrared resolution (160x120) against other thermal imagers.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your MiLESEEY TR160i thermal imaging camera.

- **Cleaning:** Use the provided cleaning cloth or a soft, lint-free cloth to gently wipe the camera lens and body. Avoid using abrasive cleaners, solvents, or harsh chemicals.
- **Storage:** When not in use, store the camera in its protective carrying case to prevent dust accumulation and physical damage. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** The TR160i features a durable metal housing, but it is still an electronic device. Avoid dropping the camera or subjecting it to strong impacts.
- **Software Updates:** Regularly check for updates to the MiLESEEY Thermal APP to ensure you have the latest features and performance improvements.

6. Troubleshooting

If you encounter issues with your MiLESEEY TR160i, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Camera not detected by device/app.	Loose connection, app not running, incompatible device, or missing drivers.	Ensure the camera is firmly plugged into the Type-C port. Restart the MiLESEEY Thermal APP. Verify your device's USB debugging settings (for Android). Try connecting to a different compatible device. Reinstall the MiLESEEY Thermal APP.
Image is blurry or unclear.	Dirty lens, environmental factors, or incorrect focus (if applicable).	Gently clean the camera lens with the provided cloth. Ensure there are no obstructions between the camera and the target. Avoid extreme humidity or dust.
App crashes or freezes.	Software bug, insufficient device resources, or outdated app version.	Close and reopen the app. Restart your smartphone/tablet/computer. Check for and install any available app updates. Ensure your device meets the minimum system requirements.

7. Specifications

Detailed technical specifications for the MiLESEEY TR160i Thermal Imaging Camera:

Feature	Detail
Model Name	TR160i
Resolution	160 x 120 pixels
Temperature Range	-15°C to 600°C (5°F to 1112°F)
Frame Rate	Up to 25 Hz (Note: Product specifications mention 30 fps, but feature bullets mention 25 Hz. Using 25 Hz as it's more specific to thermal imaging context.)
NETD (Thermal Sensitivity)	<50mK
Connectivity	USB Type-C
Compatible Devices	Android Smartphones, Tablets, Computers
Material	Full Metal Housing
Weight	20g (camera unit only) / 170g (product package weight)
Dimensions (L x W x H)	0.3 x 0.6 x 0.3 cm (camera unit only)

Feature	Detail
Power Source	Corded Electric (powered by connected device)

8. Warranty and Support

For warranty information and technical support, please refer to the official MiLESEEY website or contact your point of purchase. Keep your proof of purchase for warranty claims.

- **Manufacturer:** MiLESEEY
- **Brand Store:** Visit the MiLESEEY Store on Amazon

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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.

Submit question