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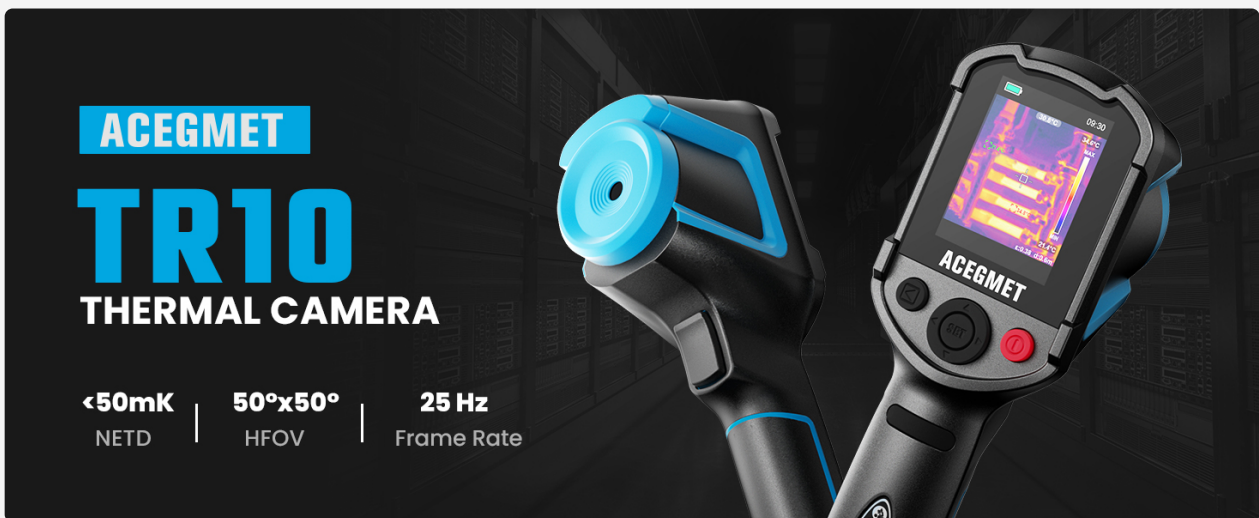
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› ACEGMET TR10 Portable Handheld Thermal Imaging Camera User Manual

ACEGMET TR10

ACEGMET TR10 Portable Handheld Thermal Imaging Camera User Manual

Model: TR10 | Brand: ACEGMET



Overview of the ACEGMET TR10 Thermal Camera.

1. GETTING STARTED

1.1 Charging the Device

To ensure optimal performance, fully charge your ACEGMET TR10 thermal camera before first use. Connect the thermal camera to a power supply using the supplied Type-A to Type-C cable. The standard adapter power supply is 5V2A.

A solid red light indicates the device is charging. A solid green light indicates the device is fully charged.

Your browser does not support the video tag.

Video demonstrating the charging process for a similar thermal camera model (HIKMICRO E03) as a general guide.

1.2 Powering On/Off

To power on the device, press and hold the power button for over six seconds. The device will display the startup screen. To power off, press and hold the power button again until the device shuts down.

2. OPERATING INSTRUCTIONS

2.1 Image Modes and Palettes

The TR10 thermal camera offers multiple imaging modes and color palettes to suit various inspection needs. Tap the image mode icon in live view to switch between different modes. Tap the palettes icon to switch between various color schemes, enhancing visibility for different scenarios.

Your browser does not support the video tag.

Video demonstrating image mode and palette selection on a similar thermal camera model (HIKMICRO E03) as a general guide.

2.2 Measurement Tools

Utilize the on-screen measurement tools to identify hot spots, cold spots, and center spot temperatures. These indicators help in quickly pinpointing areas of interest for further analysis.

2.3 Capturing Images and Recording Video

To capture a still image, press the dedicated capture button. To record video, hold the capture button. The recording icon and a countdown timer will appear on the screen, indicating that recording is in progress.

2.4 Viewing and Exporting Data

All captured images and videos are stored in the device's album. To view them, navigate to the album section. For exporting data, connect the TR10 to a PC using the supplied Type-A to Type-C cable. Ensure the "USB Cast Screen" option is disabled in the device settings before connecting. Once connected, you can copy and paste the snapshots and videos to your computer for detailed analysis.

3. ADVANCED FEATURES

3.1 Super Resolution (SuperIR)

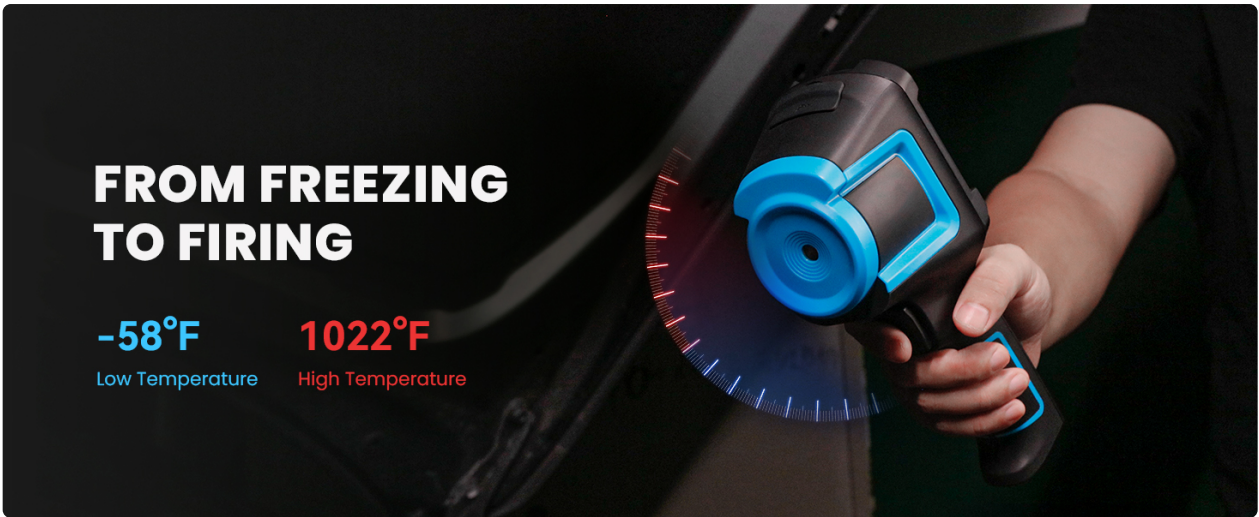
The TR10 thermal camera incorporates SuperIR technology to enhance image clarity. This feature upscales the thermal resolution from a standard 96x96 to an impressive 240x240, providing exceptionally clear thermal images. You can enable or disable SuperIR in the device's local settings under "Capture Settings".

LIVE SUPER RESOLUTION

Enhanced Clarity with 4x Pixel Upscaling
Compared to Standard Sensors



Comparison of thermal images with Super Resolution enabled and disabled, showing enhanced clarity.



Visual representation of Super Resolution enhancing image detail.

3.2 High and Low Temperature Alarm

The camera is equipped with an automatic high and low temperature alarm function. This feature provides immediate alerts when detected temperatures exceed or fall below predefined thresholds, aiding in rapid identification of critical thermal anomalies.

HIGH & LOW TEMPERATURE ALARM

Automatic Alerts for Temperature Anomalies with TR10



The thermal camera screen showing a high temperature alarm in an electrical panel.

4. APPLICATION SCENARIOS

The ACEGMET TR10 is a versatile tool suitable for a wide range of applications, making it ideal for both homeowners and professionals. Its uses include:

- **Home Maintenance:** Identifying missing insulation, air leaks, and water damage.
- **HVAC Thermal Anomalies:** Detecting issues in heating, ventilation, and air conditioning systems.

- **Electrical Systems Imaging:** Pinpointing overheating components in electrical panels and circuits.
- **Automotive DIY:** Diagnosing thermal issues in vehicle engines and components.

ENGINEERED FOR PRECISION

Advanced Specifications for High-Performance Diagnostics



<50MK

NETD

50°X50°

HFOV

25 HZ

Frame Rate

8GB

Storage

**±2°C/
+2%**

Accuracy

**3000
mAh**

Battery

**-20°C ~
550°C**

Temperature

**8.89
mrad**

I FOV

Images depicting the thermal camera being used for house maintenance, air leak detection, electrical systems imaging, and automotive DIY.



Further examples of the thermal camera's utility in air leak detection, electrical system inspections, and automotive diagnostics.

5. MAINTENANCE

To ensure the longevity and accuracy of your ACEGMET TR10 thermal camera, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the lens and screen with a soft, lint-free cloth. Avoid using abrasive materials or harsh chemicals.
- **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 partially charged (around 50%) to maintain battery health.

6. TROUBLESHOOTING

If you encounter any issues with your ACEGMET TR10, refer to the following common troubleshooting tips:

- **Device Not Powering On:** Ensure the battery is sufficiently charged. If the issue persists, try charging for a longer period.
- **Unclear Images:** Check the SuperIR setting to ensure it's enabled for enhanced resolution. Also, verify that the lens is clean and free from obstructions.
- **Inaccurate Temperature Readings:** Confirm that the emissivity settings are correctly configured for the material being inspected. Ensure the distance to the target is within the recommended range.
- **Cannot Export Files:** Make sure the "USB Cast Screen" option is disabled in the device settings before connecting to a PC.

For persistent issues not covered here, please contact customer support.

7. SPECIFICATIONS

Feature	Detail
Item Model Number	TR10

ASIN	B0D6724MFW
Batteries	1 Lithium Ion batteries required (included)
Parcel Dimensions	26.9 x 12.8 x 11.4 cm; 540 g
Date First Available	June 5 2024
Manufacturer	ACEGMET
Country of Origin	China

8. WARRANTY AND SUPPORT

8.1 Manufacturer's Warranty

The ACEGMET TR10 Thermal Camera is backed by a 2-year manufacturer's warranty, ensuring peace of mind regarding product quality and performance.

8.2 Technical Support

ACEGMET provides lifetime firmware updates and dedicated technical support for the TR10. For any inquiries or assistance, including local recalibration services, please contact us at: contact.us@acegmet.com.

SUPPORT & CARE

Dedicated Support Round-the-Clock
with Priority Service Access



2 YEAR

warranty

Image highlighting the 2-year warranty and support for the ACEGMET TR10.