

MILESEEY[®] TOOLS



TR384C | TR384E

PROFESSIONAL THERMAL IMAGING

User Manual



Safety Instructions



● For accuracy of the measure results and your own safety, please follow the instructions in this user manual when using the product, otherwise the damage resulted won't be covered by the warranty.



● This product is categorized as a Class II laser product. **DO NOT** stare into the laser beam or point it at others, for it can cause damage to the eye.



● Please use a wet cloth or mild soap detergent to clean the outer casing of the product. **DO NOT** use abrasives, isopropyl alcohol or solvents to clean the product.



● Avoid using the product in flammable, explosive, steamy or corrosive environments.



● Please stop using the product if it is damaged or modified to avoid inaccurate measure results.



● Please set the correct emissivity value for the inspected object to obtain accurate temperature readouts.



● The internal temperature of the product will rise during charging and can lead to inaccurate temperature measurements, so it's NOT recommended to use the product to take measurements during charging or right after charging.



● It's recommended to wait for 2 minutes after power-on for the internal temperature to resume stable, and then start taking measurements.



Disposal:

- **Commitment to Environmental Protection:** Environmental protection is a shared responsibility. Be mindful of their environmental impact while using this product.
- **Battery Disposal:** Disposing of waste batteries in household garbage is strictly prohibited. Please ensure that waste batteries are disposed of at designated collection stations for proper handling.
- **Product Disposal:** This product should not be discarded with regular domestic waste. Instead, it must be disposed of in accordance with local regulations and guidelines specific to your country/region.

Product Description

Thank you for choosing MILESEEEY product. Please thoroughly read this user manual before use, and keep it safe for future references.

MILESEEEY TR384 series is a compact HD thermal imaging camera with IR resolution of up to 384*288. The TR384C model offers laser distance measurement with GPS function, providing users with precise and accurate measurements in a 20-meter range. And the GPS function helps users with outdoor inspections to get a quick and accurate location of the inspected area.

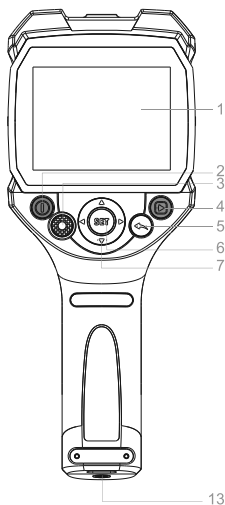
TR384C/TR384E uses a 3.45" IPS HD display with resolution up to 640*480 to show users clearer thermal images with more details.

Users can also cast the thermal imaging on their mobile device via Wi-Fi for better visual experience. Auto track of hot/cold spot allows it to quickly locate the highest and lowest temperature point, providing more precise data for users.

Equipped with a 5,000mAh lithium battery pack that boasts an amazing battery life, TR384C/TR384E is really the perfect companion for inspection and repair works.

Note: Only the TR384C model has laser measurement and GPS function.

Overview



1. 3.45" LCD Display

2. Power On/Off

Long press to power on/off.
Short press to turn on/off the screen.

3. LED Light Button

Short press to turn on/off.

4. Picture Memory Records

Short press to picture memory mode, press & hold the **SET** button to delete picture.

5. Return

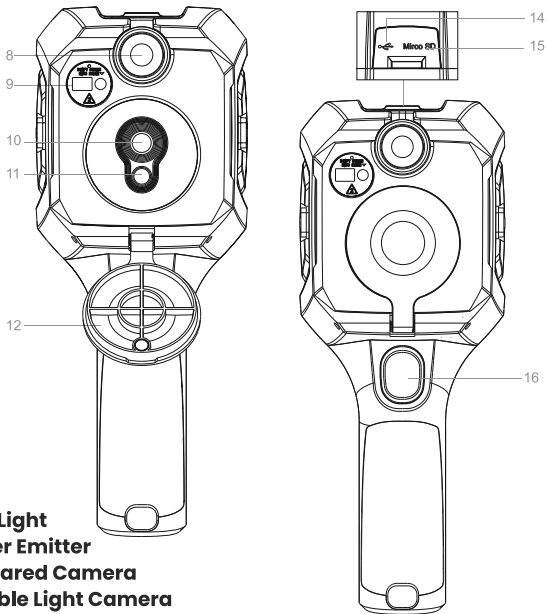
Short press to return.

6. Set Button

Short press to the setting menu or data setting.

7. Up/Down/Left/Right Button

To switch the options and view the picture records.
Use the ◀/▶ to adjust the digital zoom and thermal imaging ratio in the fusion mode.



8. LED Light

9. Laser Emitter

10. Infrared Camera

11. Visible Light Camera

12. Camera Cover

13. Tripod Screw Hole

14. USB-C Port

Note: Please DO NOT use the adapter above 5.5V to charge, otherwise it may cause machine damage.

15. Micro SD

16. Picture Taking Button

Short press to take picture and save.

*Need to enable "photo auto save" in the settings, otherwise users must press the **SET** button after taking the picture to save it.

Tips:

1. Make sure the SD card has already been mounted in place.
2. Do not insert or remove the SD card when shooting and saving pictures.

Icon Descriptions



1. Date & Time

2. Center Point Temperature

3. Max. Temperature of the Area

4. Min. Temperature of the Area

5. Min. Temperature Point

6. Center Point

7. Max. Temperature Point

8. Laser Measured Distance (Only TR384C)

9. GPS (Longitude & Latitude Info) (Only TR384C)

10. Battery Level

11. Max. Temperature of the Color Bar

12. Min. Temperature of the Color Bar

13. Current Zoom & Emissivity



14. Color Bar

15. Measurement

Press **SET** button to enter the menu, and press ◀/▶ to select Center Spot, Hot Spot, Cold Spot or Custom 1/2/3, and press **SET** button again to confirm.

16. View Mode

Press **SET** button to enter the menu, and press ◀/▶ to select IR, Fuse, PIP, Visible or Dual-spectrum Fusion Alignment, and press **SET** button again to confirm.

17. Palette

Press **SET** button to enter the menu, and press ◀/▶ button to select the imaging palette, press **SET** button again to confirm. (White Hot-Black Hot-Iron-Lava-RainBow-Rainbow HC-RdGy)

18. Settings

Operation Instructions

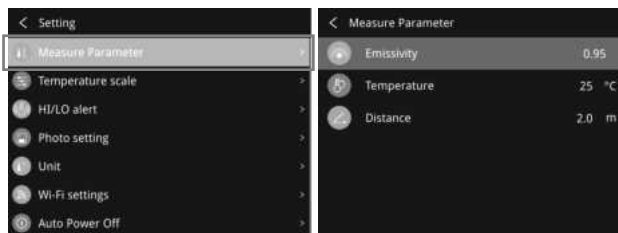
1. Press **SET** button to enter the Settings submenu.
2. Press ▲/▼ button to select items, and press **SET** or ▶ button to enter, then use the ▲/▼ button to adjust the values
3. Press Return (◀) to go back.

Settings

Measurements Parameter Settings

Selecting correct emissivity is very important for accuracy of temperature measurement, as emissivity has a significant impact on the measured surface temperature.

Press the **SET** button to go to settings, press the **SET** button to enter the measure parameter, select "Emissivity" and press the **SET** button to enter and use the **▲/▼** button to adjust the value, and press the **SET** button to confirm and exit.



Tip: The emissivity can be set in the range of 0.01-0.99. For the emissivity of common objects, please refer to the table in the appendix.

Emissivity of Common Objects

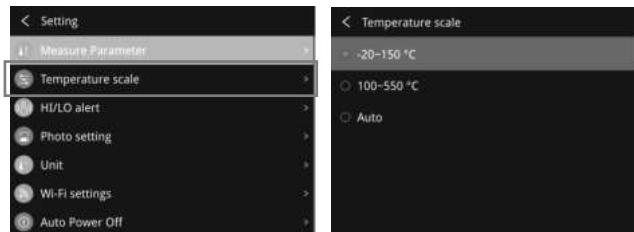
Materials	Emissivity	Materials	Emissivity
Wood	0.85	Black paper	0.86
Water	0.96	Polycarbonate	0.8
Brick	0.75	Concrete	0.97
Stainless steel	0.14	Copper oxide	0.78
Adhesive tape	0.96	Cast iron	0.81
Aluminium plate	0.09	Rust	0.8
Copper plate	0.06	Gypsum	0.75
Black aluminum	0.95	Paint	0.9
Human skin	0.98	Rubber	0.95
Asphalt	0.96	Soil	0.93
PVC plastic	0.93		

Temperature Range

Press **SET** button to enter the submenu, and press ▲/▼ button to select.

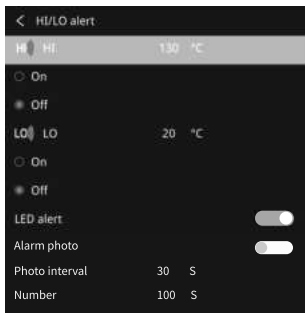
Normal Temperature Range: -20°C~ 150°C, High Temperature Range: 150°C ~550°C.

! Note: It takes about 3~10s to save the temperature range setting. Please wait until it is saved successfully.



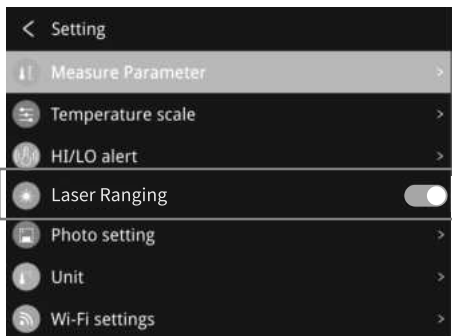
Alarm Temperature Setting

Press **SET** button to enter the submenu, and press ▲/▼ button to select settings (Alarm ON/OFF, Alarm temperature setting, LED alert, Alarm photo, Photo interval and Number), and press **SET** to confirm.



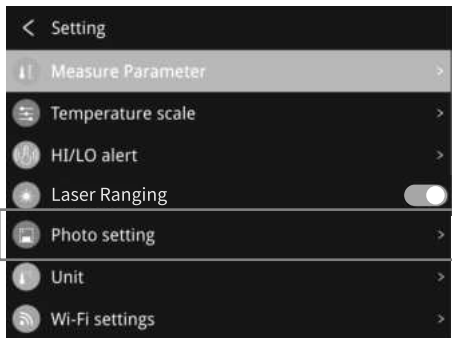
Laser Measurement (only TR384C)

Press **SET** button to turn on/off the laser measurement function.



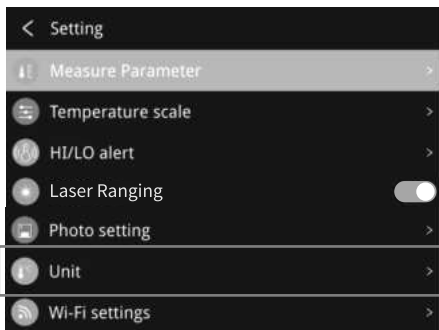
Picture Settings

Press **SET** button to enter picture settings, press $\blacktriangle/\blacktriangledown$ button to select items (Auto Save On/Off, Timer, Intervals and Number of Pictures), and press **SET** button again to confirm.



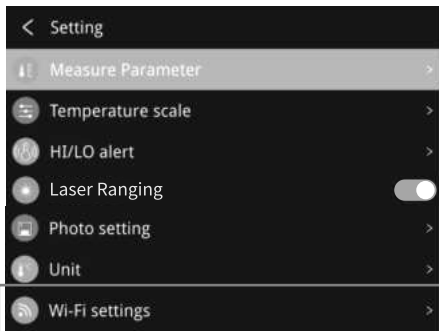
Unit Switch

Press **SET** button to enter the submenu and press ▲/▼ button to switch the unit among °C, °F and K.



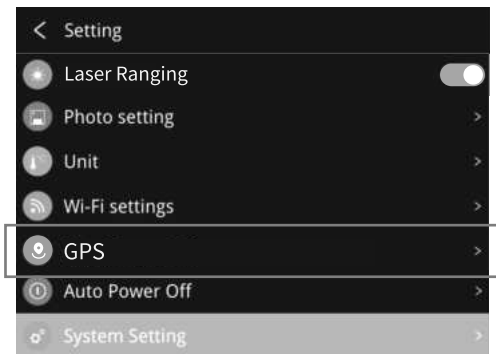
Wi-Fi Setting

Press **SET** button to turn on/off the Wi-Fi, and press **SET** button again to confirm. (Users can cast the thermal imaging onto their mobile devices via Wi-Fi.)



GPS (only TR384C)

Select the GPS function, press **SET** button to turn on/off the GPS function.



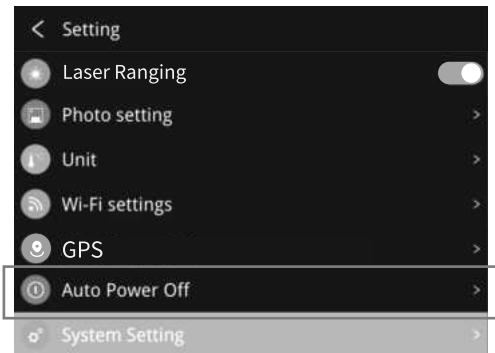
1. Please contact Mileseeey to download and install the upper PC & mobile app software to realize the outdoor coordinate conversion.

2. Turn on the GPS function, then back to temperature measurement, the left bottom of the screen shows the latitude and longitude coordinates. Press the shooting button to store the current scene.

! Note: GPS coordinate positioning function needs to be used outdoors.

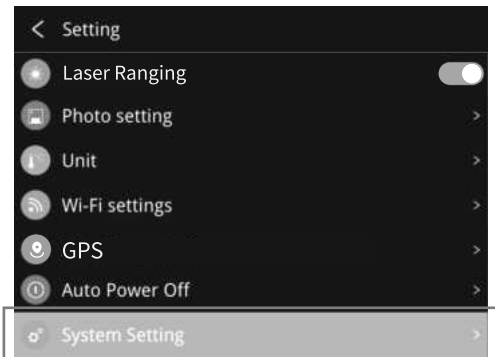
Auto Power-off

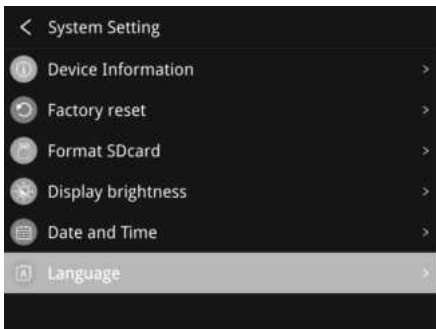
Press **SET** button to enter the submenu, press **▲/▼** button to set up the time for auto power-off, and press **SET** button again to confirm.





System Settings

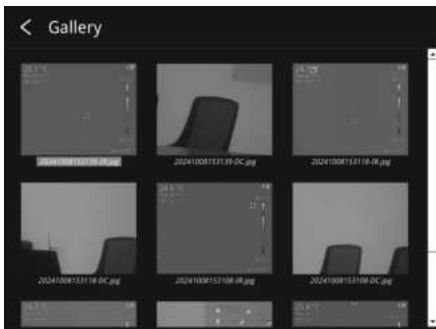
Press **SET** button to enter the submenu, press **▲/▼** button to select items (Device Information, Factory reset, Format SD card, Display brightness, Date and Time, Language), press **SET** button again to confirm.





Browse Image

Press the () blue button on the front to enter the image browsing interface, and press /// button to select, press and hold the **SET** button to pop up the delete window, press the **SET** button again to delete the picture.



Note: Please DO NOT remove or insert the SD card when browsing images, otherwise it may cause data loss or damage.

App Downloading And Installation



🔍 Thermal TP Series

Download:

Search for "Thermal TP Series" to download the APP.



Download on the
App Store



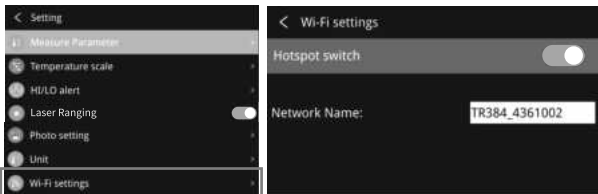
GET IT ON
Google play

! Note: To ensure a more stable and enhanced user experience, it is recommended to use a smartphone with Android 9.0 or higher and iOS 12.0 or above. To guarantee normal usage, please follow the prompts to enable the wifi and Bluetooth permissions of your smart phone during installation (Enable location permission for Android).

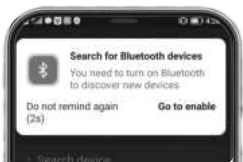
App Connectivity

1

Press **SET** button to go to "Settings" and select "WiFi Settings" in the sub-menu and turn on the hotspot.

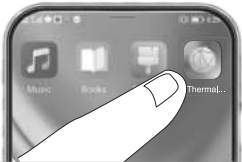


2



Connect your phone to the device hotspot.

3



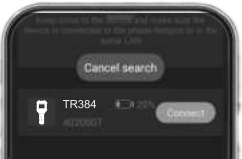
Open the Thermal TP Series app.

4



Search for "TR384".

5



Click "Connect".

6



Connecting to device...

Product Specifications

Model	TR384C/TR384E
Thermal Imaging Pixels	384*288
Spectral Response Band	8-14 μ m
HFOV	28°x21°
Pixel Size	12 μ m
Output Frame Rate	TR384C(25Hz); TR384E(20Hz)
Thermal Sensitivity	≤40mk
Detection Temperature Range	-20°C~550°C
Accuracy	±2°C/2% (take the max. value)
Measurable Distance Range	2-10m
Laser Measured Distance (only TR384C)	20m
Color Palette	7
High/Low Temperature Alarm	√
Laser Distance	TR384C (√); TR384E (×)
GPS	TR384C (√); TR384E (×)
Wi-Fi	√
Display Size	3.45-inch
Display Resolution	640*480
Visible Light Resolution	2 megapixels
Interface	USB-C port
Power	5000mAh/3.7V
Light	White LED
Use Environment Temperature	-10°C~50°C
Storage Temperature	-20°C~60°C
Dimensions	238*95*85.5mm
Weight (including battery)	555g

*All data are measured and provided by the MILESEEEY Lab, the actual use will be slightly different depending on the specific circumstances.

Disclaimer

Exclusion of Liability:

We will not be held responsible for damages resulting from improper use of the product. It is crucial that users operate the product as intended and in line with our guidelines to avoid potential issues.

Conditions Voiding Liability:

- 1. Use Without Instruction:** Operating the product without following the provided instructions can lead to damage for which we won't be held liable.
- 2. Unapproved Accessories:** Utilizing accessories from other manufacturers that have not been approved by us can result in damages that won't be covered by our responsibility.
- 3. Product Modification:** Any modification, alteration, or conversion of the product carried out by the user will void our liability for any resultant damages.

Contact Us

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Made in China

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Manufacturer: Shenzhen Mileseeey Technology Co., Ltd.

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Website: www.mileseeey.net

Store: www.mileseeeytools.com

E-mail: service@mileseeey.com

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