



TrackiR Series

Quick Start Guide

Thank you for choosing our product. Please thoroughly go through user manual before operation and keep it well for future reference. All photos here are for reference only, and specifications are subject to the physical product.

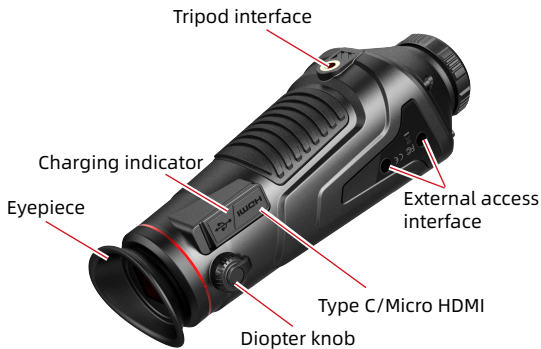
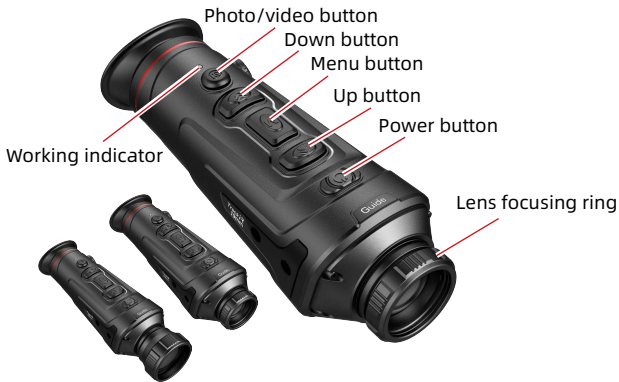
NOTICE FOR USE

- Thermal imagers shall not be pointed to high-strength energy sources (including the Sun, laser transmitting equipment and their reflection sources), which otherwise will have a negative influence on its accuracy and damage or permanently damage infrared detector of it.
- When the thermal imager will be not used for a long time, charge the thermal imager at least 4 hours every two months during the storage, and store the thermal imager in a dry and well-ventilated environment.
- Do not charge the battery in an environment over 40 .

Our company shall not bear any legal responsibility for any mistake and accident caused by own reasons or reasons of any third party in the course of using this product by the user or property loss and personal injury caused by misjudgment against images.

We prepare this guide with the purpose of facilitating users to use and understand our products. We will try our best to ensure the accuracy of contents of this guide, but we still cannot ensure the completeness of contents of it. Since we have been continuously updating and upgrading our products, we reserve the right to modify this guide at any time without prior notice.

Widget Name



Technical specifications

Model	TrackIR			TrackIR PRO		
	25mm	35mm	50mm	19mm	25mm	35mm
Detector						
Resolution	400×300			640×480		
Pixel size	17μm			12μm		
Optical properties						
Focal length	25mm F1.2	35mm F1.2	50mm F1.2	19mm F1.0	25mm F1.0	35mm F1.0
Focusing	Manual Focus					
Visual angle	15.4×11.6	11.1×8.3	7.8×5.8	22.9×17.2	17.5×13.1	12.5×9.4
Imaging						
Frame Rate	50Hz					
Digital Zoom	1x–4x			1x–8x		
Display						
Eye lens	1280×960 color LCOS					
Visibility regulation	-4~+2					
Machine magnification	1.7–6.8x	2.3–9.2x	3.3–13.2x	1.1–8.8x	1.5–12x	2.0–16x
Power						
Adapter	5VDC Special adapter charging					
Working hours	≥5 hours @25°C			≥4.5 hours @25°C		
Interface						
USB	TYPE C, for Power In/ File Transfer					
Video Interface	Micro HDMI					
External Connection	Picatinny rail					



Product function

Model	TrackIR			TrackIR PRO		
	25mm	35mm	50mm	19mm	25mm	35mm
Smooth zoom	Yes					
Photo	Yes					
Video	Yes					
WIFI	Yes					
Screen brightness	1~10 levels					
Image brightness	1~10 levels					
Image contrast	1~10 levels					
Image enhancement	Yes					
Scene mode①	Enhanced/Highlight/Nature					
Super energy-saving	Yes					
Color palettes	White hot/Black hot/ Red hot/Iron/Blue hot			White hot/Black hot/ Adjustableread hot/Iron/ Blue hot		
Hot track	Yes					
Working indication	Adjustable					
Charging indication	Adjustable					
Calibration model	Automatic/Scene/Shutter					
Stadiametric rangefinder	Yes					

Model	TrackIR			TrackIR PRO		
	25mm	35mm	50mm	19mm	25mm	35mm
Auto power-off	Yes					
Auto Stand-by	Yes					
Language settings	English/Russian/German/French/Chinese					
Time settings	Yes					
Watermark settings	Yes					
PIP	Yes					
Restore default	Yes					
Memory card formatting	Yes					
Pointer ^②	Optional function					
Ranging ^③	Optional function					
<p>Notes:</p> <p>①: In forest, city and default three scene modes, the image brightness changes adaptively, so there will be no obvious change when adjusting the image brightness function.</p> <p>②③: Optional function, not available on all models.</p>						

Buttons function

Buttons	Device current status	Short press	Long press	
Power button	Power-off	/	Power on	
	Power on	Calibration	Display off	Power-off
	Display off	Display on	/	

Buttons	Device current status	Short press	Long press
 Up button	No display in the menu bar	Switch to scene mode	Zoom in
	Display in the menu bar	Upward switching options	/
Change parameter value			
M Menu button	No display in the menu bar	Enter the shortcut menu	Enter the main menu
	Display in the menu bar	Enter the sub-menu	Exit the menu bar / back to the previous menu
Select option/ parameter value			
 Down button	No display in the menu bar	Switch to color palettes mode	Zoom out
	Menu bar display	Downward switching options	/
Change parameter value			
Photo / video	Photo mode	Photo	/
	Video mode	/	Start video recording
		/	Stop video recording

NOTE:

Users can adjust the device language according to their needs, English/Russian/ German/French/Chinese for choose.

Shortcut menu

Short press the M button to enter the shortcut menu; Press the Up/Down

button to switch between PIP, Screen BRI, Stadiametric Rangefinder, Hot track and Super energy-saving.

- PIP: Select the left / middle / right, the PIP window is open, and the window image is 2X magnification of the main image.
- Screen BRI: Ten brightness levels of 10%-100% can be adjusted.
- Stadiametric rangefinder: The stadiametric rangefinder function can estimate the distance of an target by an known target distance. Three examples of targets are available on the device as a reference: Rabbit (35cm), Boar (90cm), Deer (150cm), and real-time display of distance information of the three animals.

Operation procedure: Align the lower horizontal line with the bottom of the target image, press the Up/Down button to change the width between the upper and lower horizontal lines until the upper horizontal line is aligned with the top of the target icon. At this time, the distance can be calculated and displayed automatically.

By comparing the target size with the three reference animal sizes, the user can roughly calculate the distance of the target.

- Hot track: When hot track is turned on, the cross cursor tracks the point with the highest temperature in the scene.
- Super energy-saving: When the Super energy-saving mode is turned on, the screen brightness is reduced to 30%, and the WiFi is turned off; when the Super energy-saving mode is off, the screen brightness and WiFi are restored to their original state.

NOTE: If WiFi cannot be turned on, please check if the Super energy-saving mode is off.

Main menu

Long press the M button to enter the main menu. Press the Up/Down button to switch between Image quality adjustment, Calibration model, WiFi, Power saving settings, Indication settings, General settings and Other settings.

Image quality adjustment

- Image enhancement: When the image enhancement is turned on, the effect of the target can be enhanced.
- Scene mode: Image brightness and contrast can be adjusted for each scene mode to achieve the appropriate screen effect.
- Color palettes:
 - White hot: the object with higher temperature shows in white or lightgray.
 - Black hot: the object with higher temperature shows in black or dark gray.
 - Red hot: the object with higher temperature shows in red.
 - Adjustableread hot: the object with higher temperature shows in red, users can adjust the range of red heat from grade 1 to grade 10 according to their requirements.
 - Iron: the object with higher temperature shows in Ironred.
 - Blue hot: the object with lower temperature shows in blue or dark blue, and the object with higher temperature shows in red.
- Brightness: 1-10 level(s) can be adjusted.
- Contrast: 1-10 level(s) can be adjusted.

Calibration model

- Automatic: The device automatically corrects the image quality without any action.
- Scene: The user manually corrects the image quality as needed, and the lens cover needs to be attached before calibration.
- Shutter: The user manually corrects the image quality as needed, and the device shutter closes for calibration.

WiFi

It can be connected to the mobile phone via WiFi, and the thermal imager can be operated remotely via the mobile phone APP.

When WiFi is turned on, but not connected, the WiFi icon flashes and the WiFi name is displayed at the top of the screen.

When the WiFi is connected, the WiFi icon is always on.

- Mobile phone APP: Search and download 'TrackIR' APP in the mobile phone app market, open the app, and find the WiFi name of 'Handheld-TI-XXXX' in the mobile phone WiFi settings, enter the password '12345678', then after the connection is successful, the user can operate remotely.
- Android: Please search and download in the 360 app market, Google play.
- IOS: Please search and download in the APP store.

Power saving settings

- Auto Stand-by: If there is no operation in the setting time, it enters Stand-by mode. If the work indicator is on before entering Stand-

by mode, the work indicator will flash in Stand-by mode.

- Auto power-off: If there is no operation in the setting time, power-off.

Note: Auto Stand-by and Auto power-off cannot be performed while WiFi is connected.

Indication settings

- Charging indication: In the charging state, control the opening or closing of the charging indicator.
- Working indication: In the normal working state, control the opening or closing of the work indicator.

General settings

- Time style: 12H/24H, users can choose different time styles according to their usage habits.
- Date style: Users can choose different date styles according to their usage habits.
- Time setup: Users can adjust the current date and time of the device.
- Watermark settings: Users can choose the display style of date and time watermark on the screen according to their usage habits.
- Language settings: English/Russian/German/French/Chinese, users can adjust the device language according to their needs.
- Memory card formatting: Memory card formatting and empty the memory.

- Restore default: Restore the factory state.

Other settings (Optional accessories feature settings)

- Ranging
- Ranging adjustment
- Pointer
- Pointer adjustment

These functions are used for auxiliary Optional accessories. There are differences between the individual models. For details, please refer to the accessory manual.

Charging

When using the thermal imager for the first time, make sure to charge the thermal imager for at least 4 hours with a matching USB charger.

When charging, please unplug the USB on the side of the thermal imager, insert the matching Type C USB charging cable, and plug in the power, and then the charging begins.

Charging specifications: 5V, 2A.

Charging indicator is red during normal charging.

Charging indicator is green when charging is complete.

Note: Charging when power on.



It means that the external power supply is supplying power to the device to ensure normal operation, but is not charging the battery.



It means that the external power supply is also charging the battery while powering the device to ensure normal operation.

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Video output

There is a video output port beside the USB interface on the side of the thermal imager, and the external video is always in the state of power on.

The image of the thermal imager can be output to the external screen through the matching HDMI video cable. There are two display modes, namely the external screen and the screen of the device, but only one mode can be selected!

Note: When HDMI is used to connect the external display screen, the real-time screen can only be viewed by the external display. There is no screen display on the screen of this device. When the HDMI cable is unplugged, the screen of the device is restored.

The manual version will be updated after technical improvement.



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<http://www.guideir.com>