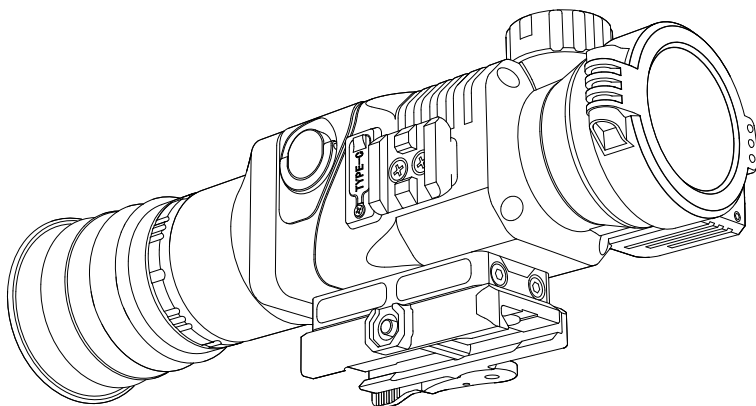




Tarantula LRF

Thermal Vision Series



✉ support@vistaget.com

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V1.0

WARNING

1. Strong Light Hazard

- Do not look directly at strong light sources, as this may cause permanent eye damage.

2. Usage by Children

- Children must use this product under adult supervision. Keep packaging materials (e.g. plastic bags, rubber bands) away from children to prevent choking hazards.

3. Environment & Storage

- Avoid high-temperature environments and direct sunlight (e.g. sun-exposed vehicles, hot equipment) to prevent device damage or fire risks.
- Keep the device away from humid or watery environments.

4. Privacy & Maintenance

- Do not use this product to invade others' privacy. Unauthorized disassembly will void the warranty.

5. Device Protection Handle with care

- Avoid drops, impacts or puncture by sharp objects. Avoid exposing the lenses to direct sunlight to prevent aging or damage.

6. First Use Instructions

- Fully charge the battery before initial use.

7. Lens Cleaning Guide

- Use a grade 3 blower to remove dust and sand from the lens surface. Gently wipe with a dedicated lens cloth to avoid scratches.

8. Laser Rangefinder

- Precautions If the laser rangefinder function is enabled, please refrain from shining it into human eyes to avoid injury.

CONTENTS

PACKING LIST	2
PRODUCT INTRODUCTION	2
SPECIFICATIONS	5
INSTALLATION	8
BATTERY INSTALLATION AND REMOVAL	9
OPERATION	10
USER MENU OPERATION	11
MAIN SCREEN OVERVIEW	12
INTRODUCTION TO USER MENU FUNCTIONS	13
MAINTENANCE	24
TROUBLESHOOTING	24
TRANSPORTATION, STORAGE AND DISPOSAL	25

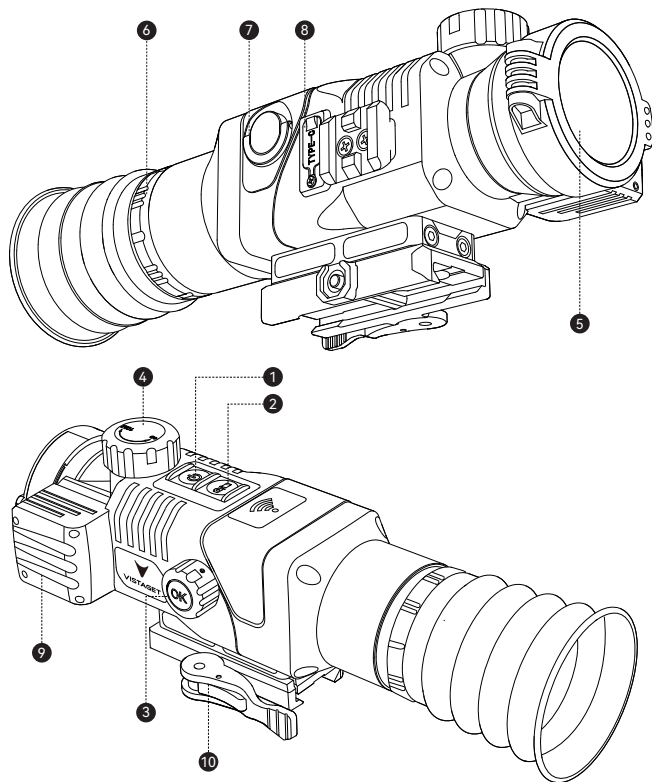
PACKING LIST

- | | |
|--|---------------------------------|
| 1. Main unit (including lens cap and bracket) *1 | 6. Quick start guide *1 |
| 2. Carrying case *1 | 7. Certificate of conformity *1 |
| 3. Eyecup *2 | 8. Warranty card *1 |
| 4. CR123A battery *1 | 9. Lens cleaning cloth *1 |
| 5. USB cable *1 | 10. Rail Interface |

PRODUCT INTRODUCTION

256×192

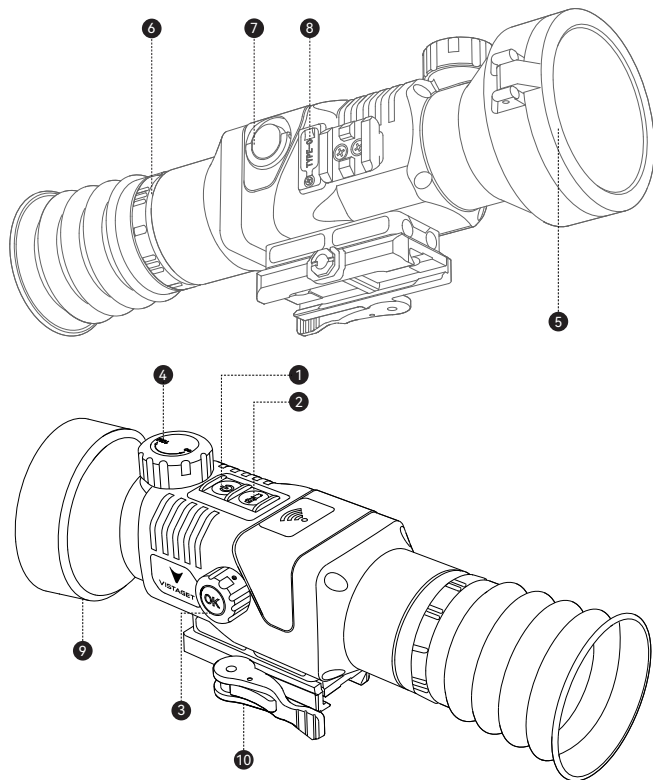
384×288



PACKING LIST

- | | |
|--|---------------------------------|
| 1. Main unit (including lens cap and bracket) *1 | 6. Quick start guide *1 |
| 2. Carrying case *1 | 7. Certificate of conformity *1 |
| 3. Eyecup *2 | 8. Warranty card *1 |
| 4. CR123A battery *1 | 9. Lens cleaning cloth *1 |
| 5. USB cable *1 | 10. Rail Interface |

PRODUCT INTRODUCTION 640×512



No.	Buttons	Function
1	Power	• Short press: color palette switching • Long press: power on/off • Power+Photo: manual image correction
2	Photo	• Short press: capture picture, and exit video recording • Long press: turn on the video recording • Power+Photo: manual image correction
3	Knob operation	• Short press: for ranging • In menu mode: function confirmation • Long press: enter/exit user menu • Rotate: zoom in/out • In menu mode: left/right switching and • Value addition/subtraction
4	Manual focus	Manual adjustment of image depth of field and clarity
5	Lens cap	Lens protection
6	Eyepiece	Diopter adjustment available
7	External battery compartment	Can be powered by external battery, battery type CR123A
8	Interface	Type-C interface, used for charging, external power supply, data transmission, and system upgrade.
9	Ranging	Performing laser ranging , do not obstruct.
10	Rail interface	For use with Picatinny rail

Specifications

Infrared

Model	Tarantula LRF 25-256	Tarantula LRF 35-384	Tarantula LRF 50-640
Detector type	Uncooled VOX		
Resolution	256×192	384×288	640×512
Pixel pitch	12μm		
NETD	≤35mk(25 °C, F#=1.0)	≤20mk(25 °C, F#=1.0)	

Optical

Focal length	25mm	35mm	50mm
FOV (±5%)	7.0°×5.3°	7.5°×5.7°	8.8°×7.0°
Minimum focus distance	1m	3m	5m
Frame rate	50Hz		
Focus mode	Manual		

Display

Type	OLED		
Dimensions	0.49 Inches		
Resolution	1440x1080		
Exit pupil diameter	6mm		
Eye Relief	55mm		
Eyepiece magnification	11.2x		
Base magnification	3.49x	3.26x	2.72x
Diopter	Adjustable -5D~+5D		

Function

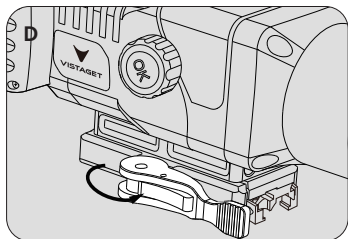
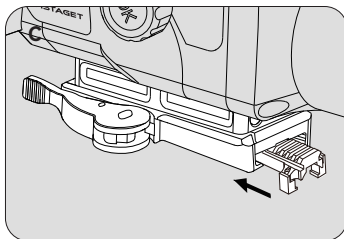
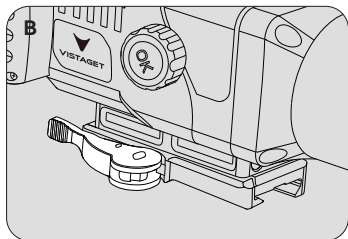
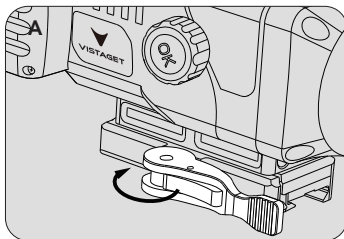
Model	Tarantula LRF 25-256	Tarantula LRF 35-384	Tarantula LRF 50-640
Laser rangefinder	Distance10: ~1000m		
Ballistic assist	Yes		
Super-pixel	Yes	/	
Shutterless	/	Yes	
Reticles	Yes		
Max.Recoil	1200g / 0.4ms		
Wi-Fi	Yes		
Video / Photo	Yes		
Sd card	32GB		
Shot activated	Yes		
Shot activated recording	Yes		
Pseudo color modes	Yes		
Picture-in-picture	Yes		
Hot track	Yes		
Dead pixel repair	Yes		
Image correction mode	Auto / Manual		
IP level	IP67		
Battery type / capacities	Build-in Battery: SNLB-1213 Lithium Battery (3.6V 950mAh) External Battery: CR123 Lithium Battery (3V 1500mAh)		
Operating time	≥ 5h	≥ 4h	

INSTALLATION

• Rail mounting of thermal imaging scope

In order to mount the thermal imaging scope to the rail, follow these steps please.

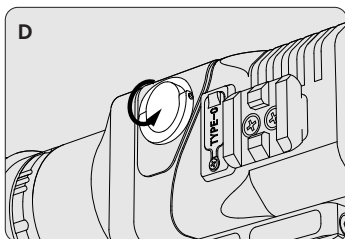
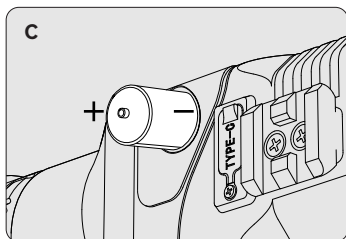
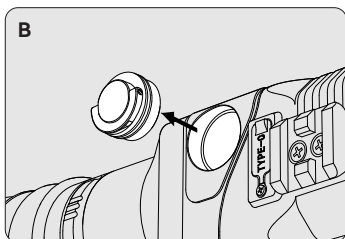
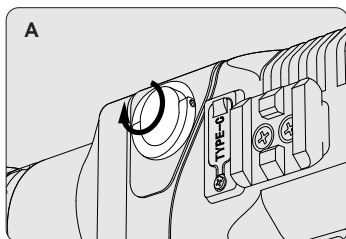
1. Screw the accessory picatinny rail to the gun, with the serrated grooves of the picatinny rail facing forward (towards the muzzle).
2. Follow the steps shown in the picture to install the rings.
3. Loosen the knurled nut below the ring.
4. Slide the device forward from the rear of the rail (towards the buttstock) to avoid blocking other accessories and adjust it to the desired position.
5. Tighten the knurled nut below the ring to ensure that the device does not wobble.



• Battery installation and removal

Please follow the steps below to install the battery.

1. Turn the battery compartment cover counterclockwise to open it.
2. Insert the external CR123 battery into the battery compartment with the positive and negative poles facing as shown in the picture.
3. After installing the battery, turn the battery compartment cover clockwise until it is securely fastened.
4. The steps for removing the battery can be found in steps A-D.



• Operation



Power

- Short press: color palette switching among White hot, Black hot, Green hot and others.
- Long press: on/off device.



Photo

- Short press: take photos and exit the video recording.
- Long press: turn on the video recording.



Knob

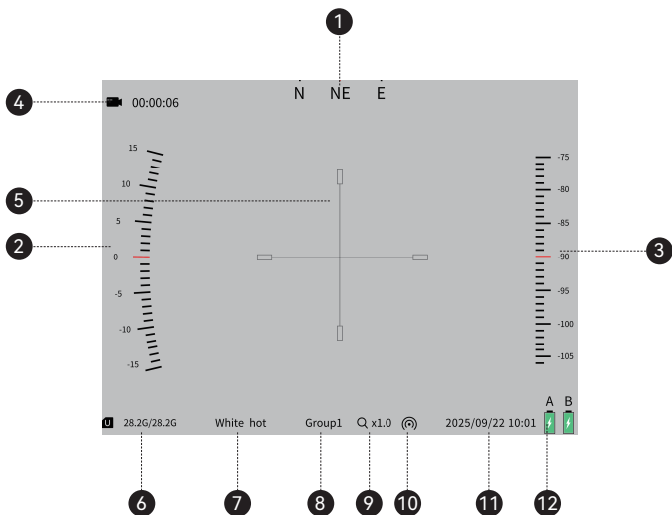
- Short press: Measure distance. Press once to show the measurement frame, then again to start measuring (single-shot or continuous mode can be selected in the function menu)
- Long press: enter/exit user menu.
- Rotate: E-zoom 1.0x~8.0x. Step zoom by 0.1x for precise image scaling.

Knob Instruction

- Short press: function confirmation.
- Long press: return.
- Knob: Left/right switching and value addition/subtraction.

Main Screen Overview

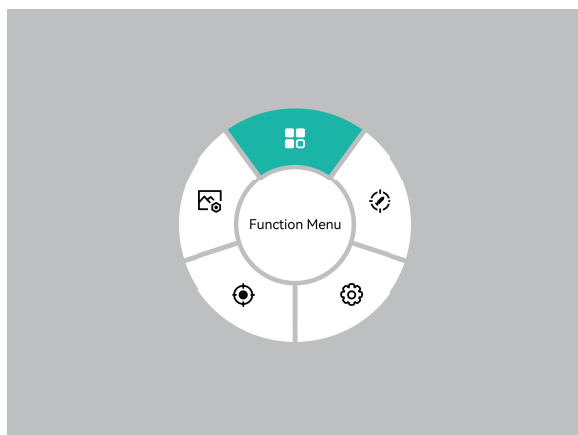
- Main screen display



- 1 Azimuth angle
- 2 Inclination angle
- 3 Rotation angle
- 4 Video
- 5 Reticle
- 6 SD storage

- 7 Palette
- 8 Aim profile
- 9 Zoom magnification
- 10 WIFI
- 11 Date & Time
- 12 Battery Indicator
 - A-Built-in battery level indicator
 - B-External battery level indicator

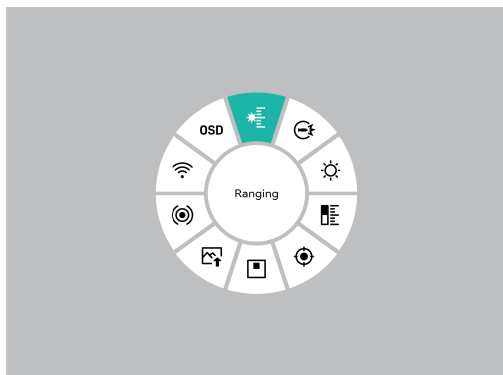
- **User menu operation**



User Menu Screen Fig. 2

INTRODUCTION To User Menu Functions

Functions menu

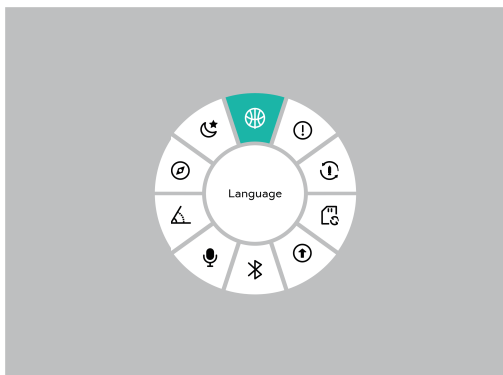


Icon	Function	Option/Description
	WiFi	off/AP/STA AP mode: Download the client program "IR-TRACKER V", install and run the mobile client program, and for the first time in use, find the instrument hot-spot "XXX_XXXXX" (WiFi name is "model serial number") in the mobile WiFi, with an initial password of "12345678". After successful connection, open the mobile "IR-TRACKER V" software, click on the software "Connect" to see the image, and use the mobile client software to achieve functions such as taking photos, recording, playback, and storage of the image. After connecting, the WiFi name and password can be customized on the client side. Click "Setting" on the homepage to enter the settings, select "WiFi settings", enter the desired WiFi name and password, click "Confirm the changes", and the AP mode setting is completed. STA mode: You need to first connect to the client in AP mode. Click "Setting" on the homepage to enter the settings, select "Router settings", enter the WiFi name and password you want to connect to, click "Confirm the changes", and the STA mode setting is completed. Select STA mode for local WiFi to automatically connect to the network.

Note: Turning on WIFI for a long time will increase the power consumption of the device, resulting in shorter standby time, please turn off this function when not in use.

Icon	Function	Option/Description
OSD	OSD	on/off Display and Hidden of Status Bar.
	RAV	on/off Enable RAV function. When the impact occurs, the local recording will automatically start, and a pre-recorded video of 10 seconds before the impact will be synthesized into the recording file.
	Screen Brightness	10%~100% Support 10-level eyepiece display screen brightness adjustment.
	Distance estimate	Automatically displays the estimated distance to a specific target size object on the scale.
	Hot-spot tracking	on/off When turned on, the main interface will appear to automatically track the cursor to display the highest temperature point on the screen.
	Picture in Picture	off/Top/Bottom It can be displayed in two fixed positions, top and bottom, and the center area will be enlarged twice.
	Enhance	0~15 Enhance the clarity of the image by up to 15 levels, the factory default is 5th level.
	Auto NUC	on/off When turned on, the device automatically zeroing for image refresh; When turned off, the device will no longer automatically refresh images. You can manually refresh images by short pressing the button "Power".

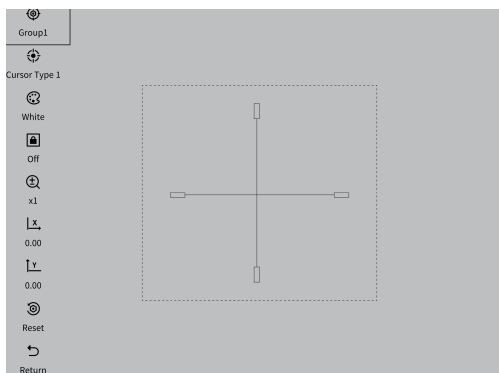
System setting



Icon	Function	Option/Description
	Language	English / Russian / German languages are optional.
	System information	Displays information such as device model / software version.
	Ballistic reset	Supports resetting/initializing ballistic group data.
	Formatting	The built-in memory card can be formatted, and a prompt will appear at the top after successful formatting. Attention: After formatting, all files in the built-in memory will be deleted. Please operate with caution.

Icon	Function	Option/Description
	Upgrade	Version upgrades are available. The operation of version upgrade is as follows: Preparation: Download the version upgrade program file through PC (for details, please contact the manufacturer's after-sales technical support), and copy the ".upp" upgrade program to the root directory of the local storage space of the device. Device upgrade: Click the function in the device and select upgrade. After the upgrade is completed, press and hold the button "power" to turn off the device, and then turn on the device again to restart, the upgrade will be completed.
	Bluetooth	(Requires optional Bluetooth controller) Pair with a Bluetooth controller for wireless control of laser ranging.
	Sound recording	on/off When turned on, the recording will save the audio.
	Pitch Angle Calibration	Place the device vertically with the lens facing downward, then press any key to start calibration.
	Compass calibration	After entering the compass calibration, rotate the device according to the prompts to correct the electronic compass.
	Sleep	0 / 5 / 30 / 60 The optional automatic sleep time is 0min / 5min / 30min / 60min. If there is no operation during this time period, the eyepiece will be automatically turned off. The device will be in low-power standby mode, and press any button to restore.

Zeroing (Calibration)

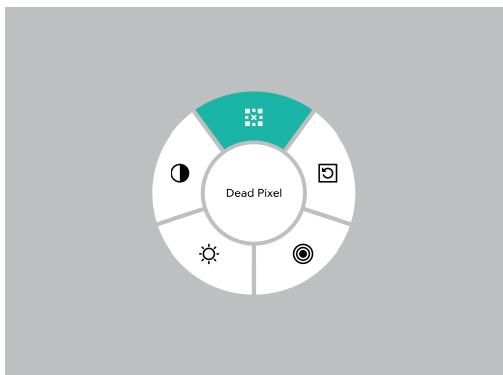


knob

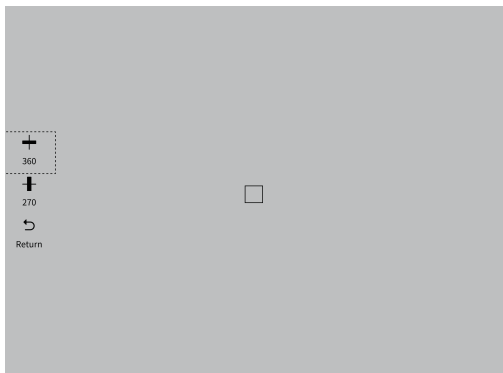
- Short press: function confirmation / cancel
- Rotate: Left / right switching and value addition / subtraction

Icon	Function	Option/Description
	Group	1/2/3/4/5 Five sets of user-defined parameters for riflescope calibration.
	Cursor Type	0~10 10 cursor types are available, default "0" off.
	Color	White/Red/Green/Yellow Four cursor colors are available.
	Freeze	on/off Freeze the image.
	Zoom in	1X/2X/4X/8X 1x/2x/4x/8x centered on the cursors.
	Left/Right	[-360,360] Moves the cursor left/right on the X-axis.
	Up/Down	[-270,270] Moves the cursor up/down on the Y-axis.
	Reset	Reset the cursor position to the initialized position (0,0).
	Return	Saves the parameters and returns to the previous menu.

Image Setting



Dead pixel



Power

- Short press: Reset dead pixel in cursor area.



Knob

- Short press: function confirmation / cancel.
- Rotate: left/right switching and value addition/subtraction.

Icon	Function	Option/Description
	Left / Right	[0,719] Moves the cursor left / right on the X-axis.
	Up / Down	[0,539] Moves the cursor up / down on the Y-axis.
	Return	Saves the parameters and returns to the previous menu.
	Restore Factory Setting	All parameters will be restored to the default values when turned on (except group parameters).
	Red Display Trigger	[-100,100] In the red hot mode, the red part displays the trigger value, which is the adjustment of the red rendering display position. -100~100 adjustable, can be adjusted left or right by rotating the knob according to the on-site environment.
	Brightness	[0,100%] Infrared image brightness adjustment. 0~100% adjustable, can be adjusted left or right by rotating the knob according to the on-site environment.
	Contrast	[0,100%] Infrared image contrast adjustment. 0~100% adjustable, can be adjusted left or right by rotating the knob according to the on-site environment.

Ballistic Assist		
Ballistic calculation mode	< Off >	
Ballistic calculator variables	>	
Ballistic drop chart	>	
Style of impact point	< • >	
Unit of ranging	< Yard >	

Precautions

- Rotate the knob to select this function. Short-press to choose either Simple or Ballistic Record calculation method. Long-press the button to return.
Simple calculation parameters: profile group / ballistic coefficient / muzzle velocity / bullet weight / zero distance / base height / temperature / altitude / unit settings.

Rotate the knob to select a function, short-press to enter settings, and long-press to return.

Multiple parameter sets can be saved for later use.

Ballistic Record Table: Customize multiple distance/drop point parameters.

- Rotate the knob to select a function, and short-press to enter. Then short-press the photo button to add ballistic data, long-press to delete data. Rotate the knob to select data for editing, short-press to adjust settings. Long-press to return.

Drop Point Styles: Three preset drop point styles

- Rotate the knob to select this function. Short-press to choose a drop point style, and long-press to return.

Ranging unit: m / feet / yds

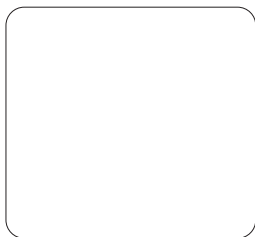
- Rotate the knob to select this function. Short-press to choose a ranging unit, and long-press to return.

- **Installing The Application**

Scan the QR code to download the Application.



IPHONE APP
DOWNLOAD



ANDROID APP
DOWNLOAD

Cleaning the Display, Objective Filter Cover, and Objective Lens

- Open the Type-C interface cover of the device and insert a USB charging cable (voltage DC5V/2A) for charging.
- Connect to computer with USB cable for photo video recording and upgraded data file copying.

Real-time video output

- Open the Type-C interface cover of the device and insert the configured cable to connect to the display or other long-distance transmission on the monitor.

Precautions

- Due to the high-sensitivity thermal sensor used in uncooled infrared thermal imagers, under no circumstances should the lens be directly exposed to intense radiation sources (such as sunlight, direct or reflected laser beams, etc.), whether the device is powered on or off. Doing so may cause permanent damage to the uncooled infrared thermal imager!
- Cleaning: Gently wipe the infrared lens with a microfiber cloth and clean. Avoid using organic solvents or sharp/hard objects to prevent lens coating damage.
- First-time use: Check battery level before initial use. Charge for 3 hours if necessary, ensuring the device is placed at room temperature during charging.
- Maintenance: Do not open the casing or modify the device. Repairs must only be performed by authorized personnel.

MAINTENANCE

Cleaning the Display, Objective Filter Cover, and Objective Lens

- Blow away any debris or dust as much as possible, then gently wipe the surface with a lens cloth.
- For grease stains or dried water spots, use a lens cloth or cotton swab with a small amount of denatured alcohol to gently clean the area.

When Not in Use For a Long Time

- Keep the device in a dry, low-light, room-temperature environment (between -40°C to 60°C/ -104°F to 140°F).

TROUBLESHOOTING

If there is a problem with the product, please check the list of problems first, If you still can't solve the problem, please contact the after-sales service personnel to deal with it in time!

Warning! Do not disassemble the product as this will void the warranty.

Malfunction	Cause	Action
The image is too dark	The screen brightness is set too low	Adjust the brightness
	Filter cap on objective lens not open	Open the filter cap
Image flicker	Bright light source being observed	Stop observing bright light sources
	The power is too low	Charge the battery
Poor quality images	Dirt on the objective lens or eyepiece	Clean the objective lens & eyepiece
	Unadjusted diopter	Adjusting the diopter
	Focus not adjusted	Adjust the focus
Product won't turn on	Insufficient power	Charge the battery
	Batteries installed backwards	Reinstall the battery

TRANSPORTATION, STORAGE AND DISPOSAL

The supplied Li-ion batteries obey the Dangerous Goods Legislation requirements.

- Obey all applicable national regulations.
- Obey the special requirement on package and labels for commercial transportations, including by third parties and forwarding agents.

- **Storage**

- Keep the product in a dry, low-light, frost free space.
- When the product is not in use, promptly close the objective lens cover.

- **Disposal**

Follow local recycling requirements and applicable regulations.



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FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ -Reorient or relocate the receiving antenna.
- ▶ -Increase the separation between the equipment and receiver.
- ▶ -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ -Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.