Thermal Monocular Camera

User's Manual

V1.0.1

Foreword

General

This manual introduces the functions and operations of Thermal Monocular Camera (hereinafter referred to as "the Camera"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
ESD	Electrostatic Sensitive Devices. Indicates a device that is sensitive to electrostatic discharge.
LASER RADIATION	Indicates a laser radiation hazard. Take care to avoid exposure to a laser beam.
TIPS	Provides methods to help you solve a problem or save time.
NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.1	• Added some functions of the camera with LRF. • Added the chapter of "Setting Noise Reduction".	February 2025
V1.0.0	First release.	August 2024

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the

product.

- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Transportation Requirements

WARNING

- Transport the Camera within the allowed humidity and temperature conditions.
- Do not fall, squeeze, violently vibrate or immerse the device in liquid when transporting. Gently pick and place the Camera when moving, prevent the internal equipment becoming damaged or cable connection becoming loose.
- Do not transport the Camera without package. Use the factory default package or material of equal quality to pack the Camera when transporting it, otherwise the Camera can become easily damaged.

Storage Requirements

WARNING

- Store the Camera within the allowed humidity and temperature conditions.
- Do not place the device in a humid, dusty or extremely hot or cold site that has strong electromagnetic radiation or unstable illumination.
- Do not squeeze, violently vibrate or immerse the device in liquid.
- Do not mechanically vibrate or crash when storing.
- Store the Camera in a ventilated place that has no strong electromagnetic radiation.
- For long-term storage of the battery, make sure that it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.

Operation Requirements

DANGER

- Prevent liquid from flowing into the Camera to avoid damage to the internal components.
- Do not stuff foreign materials into the Camera to prevent a short circuit which could result in the Camera being damaged or people becoming injured.
- Do not expose the device to high electromagnetic radiation or dusty environments.
- Do not aim the lens at the sun or any other bright light.
- Improper use or replacement of the battery may result in explosion hazard.
- Do not charge other battery types with the supplied charger. Confirm there is no flammable material within 2 m of the charger during charging.
- Make sure that the plug is properly connected to the power socket.
- Do not connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.
- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

- Do not dismantle the Camera. The internal components can only be repaired by a qualified professional. Dismantling it without professional assistance might cause water seeping in or might result in the Camera producing poor quality images.
- Operating temperature: –30 °C to +55 °C (–22 °F to +131 °F), and the operating humidity shall be 95% or less.

Maintenance and Repair Requirements

- Prevent liquid from flowing into the Camera to avoid damage to the internal components. In case the liquid enters the Camera, immediately stop using the Camera, cut off the power, and disconnect all the cables, and then contact your local customer service center.
- Use the accessories regulated by the manufacturer. The Camera should be maintained by qualified professionals.
- Make sure to cut off the power before cleaning the Camera, to prevent electric shock.

If the Camera malfunctions, contact your local customer service center. Do not dismantle the Camera.

- Clean the Camera body with a piece of soft dry cloth. For any dirt that is hard to remove, pick up a piece of clean and soft cloth, dip it into a little neutral detergent and gently wipe the dust away. After that, wipe away all the remaining liquid on the Camera with another dry cloth. Never use volatile solvents such as alcohol, benzene and thinner, or cleaners that are strong and abrasive. Otherwise, the Camera's surface coating will be damaged and its working performance will be encumbered.
- Save the factory package of the Camera. When the Camera malfunctions, pack the Camera with the factory package and send to the dealer.

Laser Requirements

Laser can cause damages to eyes. Do not look directly at the laser beam or observe the beam with optical devices when the laser is on.

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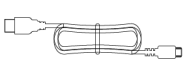
1 Product Introduction

The thermal monocular camera captures sharp thermal imaging at a fast frame rate for smooth, impeccable vision on running targets and from moving vehicles. Designed to increase situational awareness at any time of day, the camera can detect humans, animals, and objects in complete darkness, haze, or through glaring light, equipping law enforcement professionals, hunters, and outdoor enthusiasts with reliable thermal imaging in tough conditions. Featuring the laser range finder, the Camera with LFR can accurately measure the target distance. It is widely used in outdoor scenarios for hunting, rescue, animal observation, and more.

2 Structure

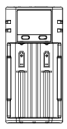
2.1 Packing List

Figure 2-1 Packing list



Type-C Cable × 1

Battery × 1

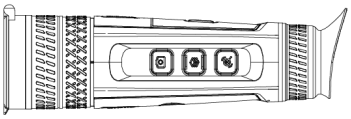


Battery Charger × 1

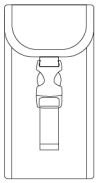
Wristband × 1

Lanyard × 1

Lens Cloth × 1



Thermal Monocular Camera × 1



Camera Pouch × 1

Quick Start Guide × 1

Legal and Regulatory Information × 1

Warranty Card × 1

2.2 Device Description

Figure 2-2 Button description (without LRF)

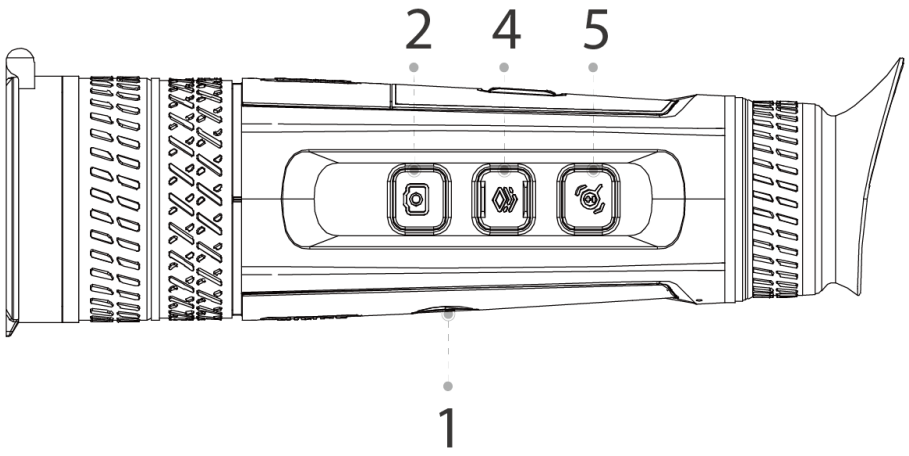


Figure 2-3 Button description (with LRF)

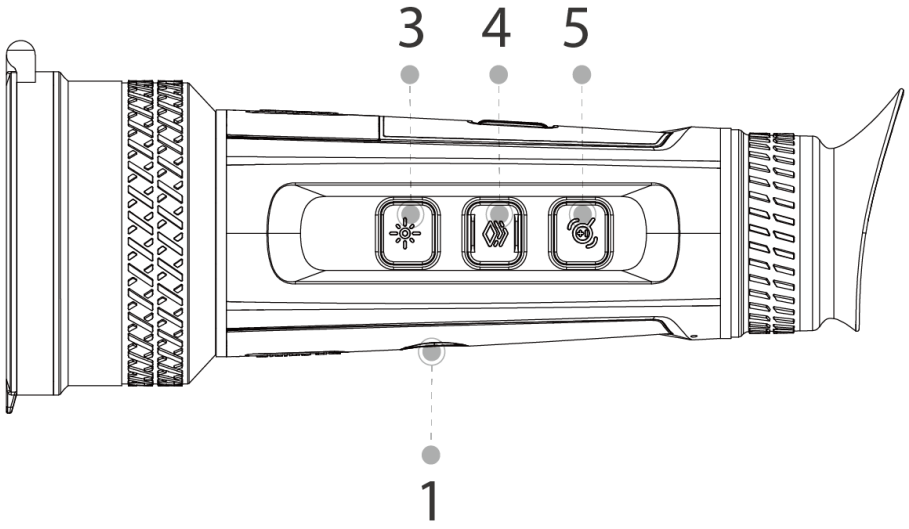


Table 2-1 Button description

No.	Name	Description
1	Power button	• Press and hold to start or shut down the Camera. • Press to enable or disable the suspend mode.
2	Capture button	• Press and hold to record videos. • Press to capture images. This function is only available on the camera without LRF.

No.	Name	Description
3	Laser button	• Press to enable the laser ranging mode. • press and hold to record videos. DANGER Laser can cause damages to eyes. Do not look directly at the laser beam or observe the beam with optical devices when the laser is on. • This function is only available on the camera with LRF. • Make sure that you have set the laser ranging mode before enabling the function. For detail, see "3.2.7 Setting Laser Ranging". • The ranging function is only available when the distance is longer than 10 m.
4	Menu button	• Press and hold to go to the main menu. • Press to select the color palettes.
5	Zoom button	• Press and hold to manually adjust the shutter. • Press for digital zoom.
3 + 4	Laser button + Menu button:	Press the two buttons at the same time to capture images. This function is only available on the camera with LRF.

Figure 2-4 Port description

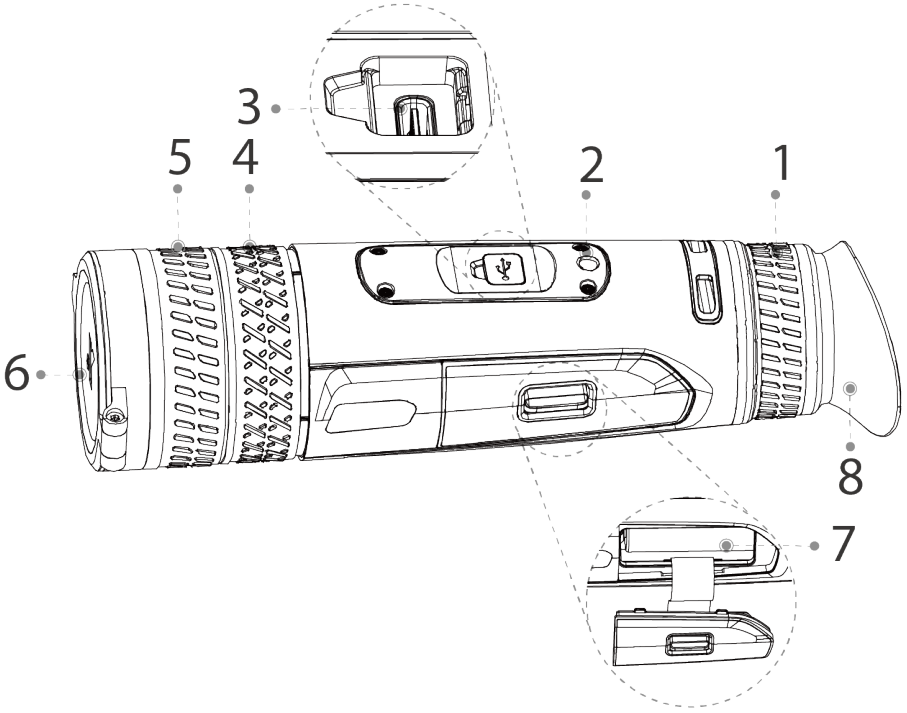


Table 2-2 Port description

No.	Name	Description
1	Diopter adjustment ring	Adjust the diopter according to your eyesight.
2	Tripod nut	For tripod installation.
3	Type-C port	Connects to a data cable for charging.
4	Focus ring	Manually rotate the ring to adjust the focus for a clear image.
5	Zoom ring	Manually rotate the ring for optical zoom. This function is only available on the camera with Dual-FOV.
6	Protective cover	Dust prevention. Close the cover when not using the Camera.
7	Battery compartment	The place for holding the battery.
8	Eyeshade	Protects the eyes from glare.

3 Basic Operation

3.1 Starting and Shutdown

3.1.1 Manual Starting and Shutdown

Press and hold the power button to start or shut down the Camera; press the power button to suspend or weak up the Camera.

After starting the Camera, remove the protective cover of the lens.

- When the Camera is off, press and hold the power button to start it.
- When the Camera is on, press and hold the power button to shut down it.
- When the Camera is on, press the power button to suspend the Camera.
- When the Camera is in suspend mode, press the power button to weak up it.

3.1.2 Auto Shutdown

Step 1 Press and hold to go to the main menu.

Step 2 Press or to select .

For the camera with LFR, press or to select .

Step 3 Press to go to the **System Settings** configuration screen.

Step 4 Press or to select .

For the camera with LFR, press or to select .

Step 5 Press to set the auto shutdown time. If there is no operation in the configured time, the Camera will automatically shut down.

Step 6 Press and hold to save the configuration and exit.

After finishing the auto shutdown settings, the Camera will suspend first, and then shut down.

3.2 Configuring the Camera

3.2.1 Menu Description

When the Camera is on, press and hold to enter the main menu. Functions of all buttons are as follows.

- Press to move upward the cursor.

For the camera with LFR, press to move upward the cursor. In this section, we use as an example.

- Press to move downward the cursor.
- Press to confirm.
- Press and hold to exit.

Figure 3-1 Menu description (without LFR)

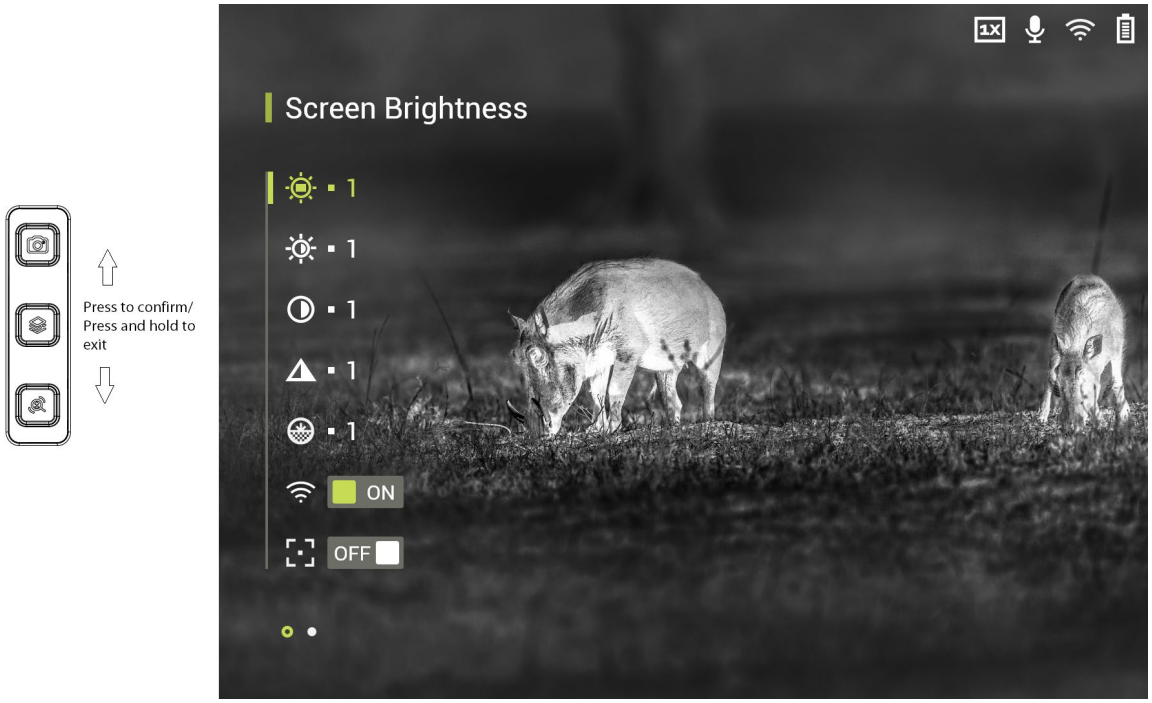
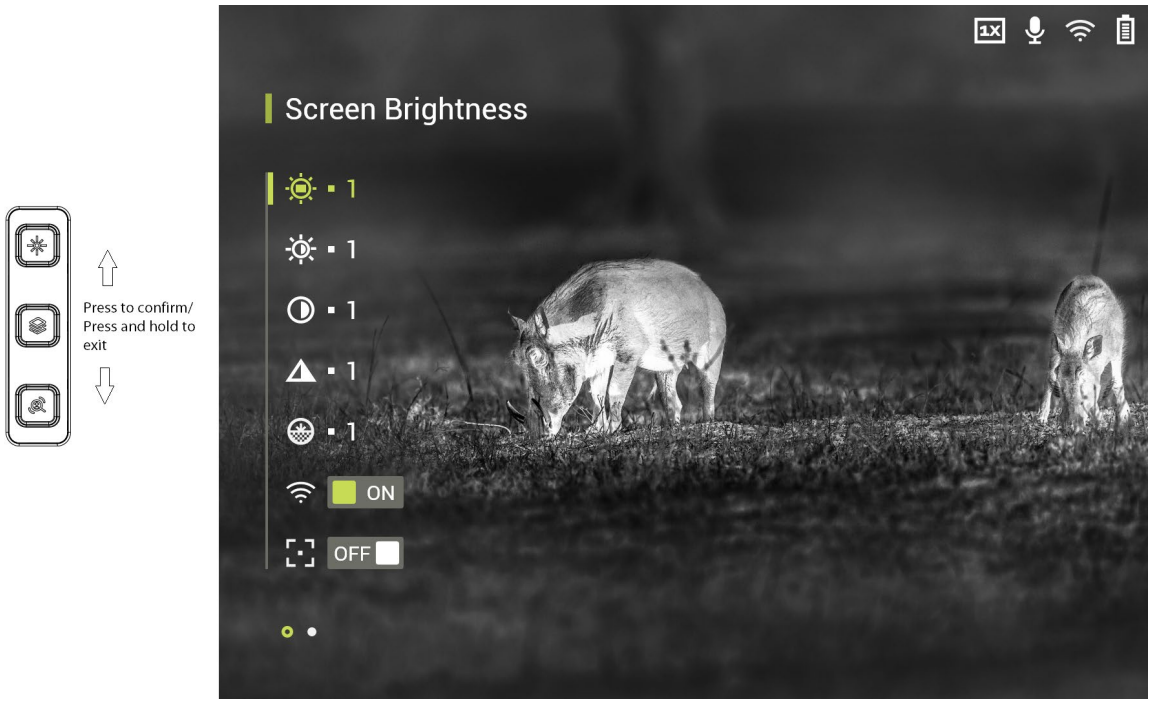


Figure 3-2 Menu description (with LFR)



3.2.2 Image Adjustment

3.2.2.1 Adjusting Diopter

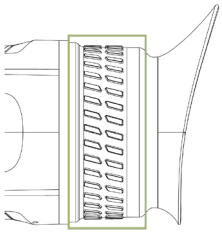
To get clear images, rotating the diopter adjustment knob to fit your eyesight.

For the first-time use, adjust the diopter before configuring the functions.

Step 1 Aim the lens at the target, and then make your eyes close to the eyeshade.

Step 2 Adjust clockwise or counterclockwise the knob according to your eyesight.

Figure 3-3 Adjust diopter



3.2.2.2 Adjusting Focus

Rotate the focus ring to get a clear view. This function is only available on the models with adjustable lens.

Step 1 Aim the thermal lens to the target.

Step 2 Adjust clockwise or counterclockwise the focus ring until the view is clear.

During the adjustment, do not touch the lens to avoid smudging it; otherwise it may affect the image quality.

Figure 3-4 Adjust focus

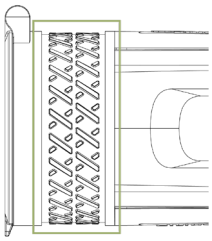
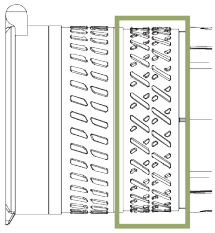


Figure 3-5 Adjust focus (DFOV)



3.2.2.3 Adjusting Optical Zoom

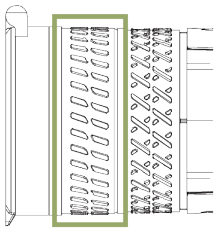
Rotate the zoom ring for optical zoom. This function is only available on the models DFOV.

Step 1 Aim the thermal lens to the target.

Step 2 Adjust clockwise or counterclockwise the zoom ring until the view is clear.

During the adjustment, do not touch the lens to avoid smudging it; otherwise it may affect the image quality.

Figure 3-6 Adjust optical zoom



3.2.2.4 Setting Color Palettes

Select the color palettes, which adds color to the thermal image and uses color to indicate the temperature.

On the viewing screen, press to select the color palettes.

- White Hot: The objects with high temperature are white. The higher the temperature, the brighter the color.
- Alarm: The objects with high temperature are red. The objects can stand out.
- Iron Red: The objects with high temperature are red. The higher the temperature, the brighter the color.
- Black Hot: The objects with high temperature are black. The higher the temperature, the darker the color.
- Sepia: The objects with high temperature are brown. The higher the temperature, the darker the color.
- Green Hot: The objects with high temperature are green. The higher the temperature, the darker the color.

Figure 3-7 White hot

Figure 3-8 Alarm

Figure 3-9 Iron red

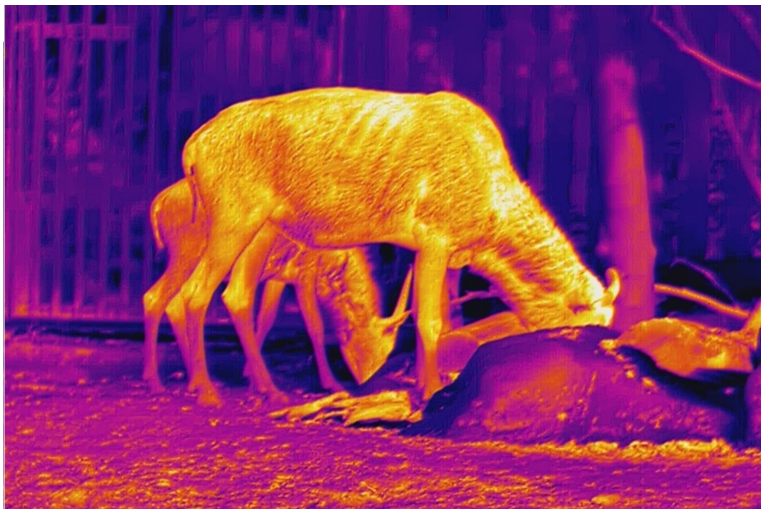


Figure 3-10 Black hot

Figure 3-11 Sepia

Figure 3-12 Green hot

3.2.2.5 Setting Digital Zoom

Digital zoom helps to zoom in the image.

On the viewing screen, press to do digital zoom, and the image changes.

3.2.2.6 Setting Status Bar Display

Step 1 On the main menu, press or to select > OSD.

Step 2 Press .to enable OSD to display the status bar.

Table 3-1 Description of status bar

Icon	Name	Description
	Battery level:	Displays the battery level in real time.
/	Wi-Fi	• : Wi-Fi is disabled. • : Wi-Fi is enabled.
1X	Digital zoom	Supports 1×, 2×, 4× and 8× digital zoom. The number might different depending on models.
/	MIC	• : MIC is disabled, and the videos will be recorded without sound.. • : MIC is enabled, and the videos will be recorded with sound.

3.2.2.7 Setting Screen Brightness

Adjusts the overall screen brightness. The higher the level is, the brighter the screen will be.

Step 1 On the main menu, press or to select .

Step 2 Press to select the brightness level. The higher the level is, the brighter the screen will be.

3.2.2.8 Setting Image Brightness

Adjusts the image brightness. The higher the level is, the brighter the image will be.

Step 1 On the main menu, press or to select .

Step 2 Press to select the brightness level. The higher the level is, the brighter the image will be.

3.2.2.9 Setting Contrast

You can set the contrast. The higher the level is, the more the contrast will be between bright and dark areas.

Step 1 On the main menu, press or to select .

Step 2 Press to select the contrast level.

3.2.2.10 Setting Sharpness

Adjusts the sharpness of picture edges. The higher the level is, the clearer the picture edges will be.

Step 1 On the main menu, press or to select .

Step 2 Press to select the sharpness level. The higher the level is, the clearer the picture edges will be.

3.2.3 Setting Noise Reduction

After enabling the noise reduction function, you can minimize the unwanted noise in the image to enhance the clarity and fidelity.

Step 1 On the main menu, press or to select .

Step 2 Press to select the level. The higher the level is, the less the noise will be, but the more details will be lost.

3.2.4 Setting Wi-Fi Connection

After enabling Wi-Fi connection, you can connect your phone to the hotspot of the Camera, and then access the Camera with the app.

The frequency bands and modes and the nominal limits of transmitted power (radiated and/or conducted) applicable to this radio device are the following:

Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz)	20 dBm

Some cameras will automatically disable the Wi-Fi function when the battery level is lower than 15%.

Step 1 Scan the QR code with your smart phone to install the app.

Figure 3-13 QR code

iOS

Android

Step 2 On the main menu, press or to select .

Step 3 Press to enable the Wi-Fi function.

Wi-Fi name: model number + serial number.

You can find the serial number on the Camera and the label of the packing box.

Step 4 Log in to the app.

Add access devices according to the prompt.

3.2.5 Setting Hot Point

Tracks the point with the highest temperature in real time.

Step 1 On the main menu, press or to select .

Step 2 Press to enable or disable the hot point function.

After enabling the hot point function, the hot point icons will automatically locate at the point with the highest temperature in the image.

3.2.6 Setting Forest Mode

Step 1 On the main menu, press or to select .

Step 2 Press to enable or disable Forest Mode.

Forest mode stands out the targets with high temperature, which makes it easier to find out the targets.

3.2.7 Setting Ranging Mode

After setting the ranging mode, the Camera can measure the range towards targets.

This function is only available on the models without laser range finders. For models with laser range finders, see "3.2.8 Setting Laser Ranging".

To guarantee the measurement accuracy, keep your hand steady when measuring the range.

Step 1 On the main menu, press or to select .

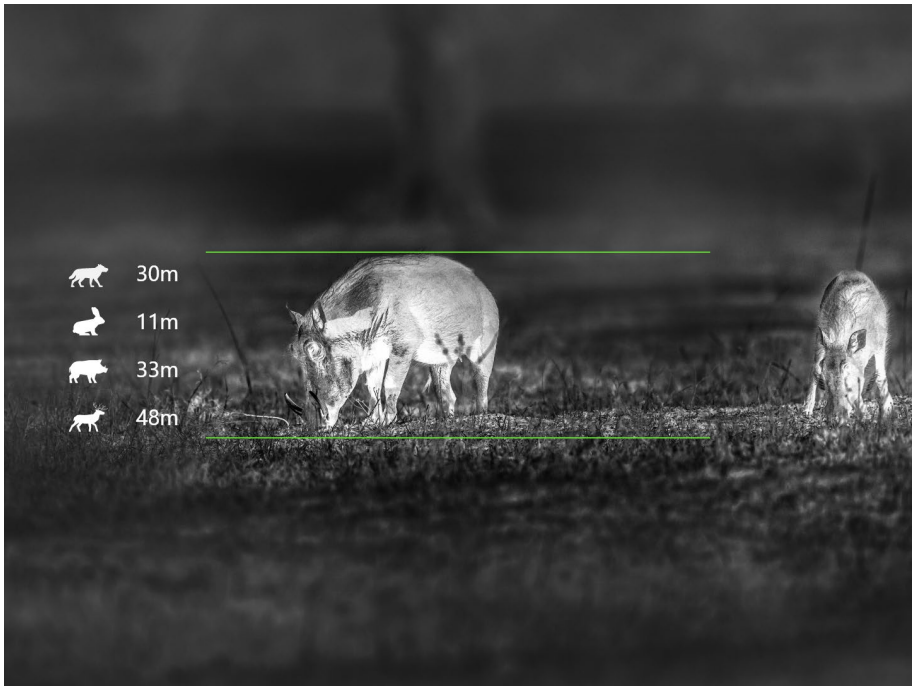
Step 2 Press to go to the **Ranging Mode** configuration screen.

Step 3 Press or to move the green lines to the top and bottom of the target to get the distance between the target and the Camera.

Use the following fig as an example:

- If the target is a wolf, it is 30 m away from Camera.
- If the target is a rabbit, it is 11 m away from Camera.
- If the target is a wild boar, it is 33 m away from Camera.
- If the target is a deer, it is 48 m away from Camera.

Figure 3-14 Ranging Mode



3.2.8 Setting Laser Ranging

This function is only available on the models with laser range finders. For models without laser range

finders, see "3.2.7 Setting Ranging Mode".

DANGER

Laser can cause damages to eyes. Do not look directly at the laser beam or observe the beam with optical devices when the laser is on.

3.2.8.1 Measurement Considerations

Measurement targets

The Camera is suitable for measuring the distance between the camera and the targets with high reflectivity (such as road signs on highways), the targets with moderate reflectivity (such as wall) and the targets with low reflectivity (such as tree, golf flag, utility pole, and animal). When the reflectance is reduced to a certain extent, the range will be reduced accordingly.

Factors that influence ranging capability

- Target reflectivity: Generally, the higher the reflectivity of the target, the better the ranging ability. For example, the measuring range of the Camera is 1,500 m for a target with moderate reflectivity, which can be up to 1,800 m for a target with high reflectivity, and 600 m for the targets with low reflectivity. (It might fail to measure the target that hardly generates diffuse reflection, such as water surface.)
- Target shape: When a target is too small or uneven, the ranging ability will decrease.
- Measuring angle: The measurement is more accurate when the reflection surface of target is vertical to the laser emission's direction. If you use the Camera under some extreme conditions, the measurement might be inaccurate.
- Measuring environment: The environment factors include sunshine intensity, the concentration of water vapor in the air and suspended particles (such as rain, fog, snow, fog and haze).

The range ability of the Camera defined under the following conditions

- The measurement target is with moderate reflectivity, such as walls.
- The reflection surface of target is vertical to laser emission direction.
- The weather condition is sunny but not under the condition of direct sunlight.
- The reflection area is larger than 2 m × 2 m.

3.2.8.2 Setting Laser Ranging Mode

After setting the laser ranging mode, the Camera can measure the range towards targets.

To guarantee the measurement accuracy, keep your hand steady when measuring the range.

Step 1 On the main menu, press or to select .

Step 2 Press to select the laser ranging mode.

- Once: After pressing the laser button, the Camera measures the distance between the camera and the target once.
- Continue: After pressing the laser button, the Camera continuously measures the distance between the Camera and the target in 15 s.

3.2.9 Setting Language

You can select the language as needed.

Step 1 On the main menu, press or to select .

Step 2 Press .to go to the language selection screen.

Step 3 Press to select the language as needed.

Step 4 Press .to save and exit.

3.2.10 Setting DPC

After enabling DPC (Defective Pixels Correction), you can correct the defective pixels in the image.

Step 1 On the main menu, press or to select .

Step 2 Press to go to the **Function Set** configuration screen.

Step 3 Press or to select .

Step 4 Press to go to the **DPC** configuration screen.

- Auto: The Camera automatically corrects the defective pixels in the image.
  1. Select **Auto**.
  2. Press to start the auto correction.
  3. Follow the screen instructions to close the lens cover.
  4. Press to save the configurations.
- Manual: You need to correct the defective pixels manually.
  1. Press to select X-axis and Y-axis.
  2. Press and hold or to calibrate the defective pixels.
  3. Press and hold to save the configuration.

  The center of the cursor is the position of the defective pixel.
- Restore: The DPC configuration is restored to the primary state.

3.2.11 Function Settings

Step 1 On the main menu, press or to select .

Step 2 Press to go to the **Function Set** configuration screen.

Step 3 Press or to select the function to be configured.

Table 3-2 Function Settings

Function	Description
Burning Warning ( )	Press to enable the burning warning function. When the lens is in the risk of burning, a note will be displayed on the screen and the shutter will be off automatically.
Logo ( )	Press to enable logo display, and the logo will be display when the camera is starting.
OSD ( )	Press to enable OSD display, and the status bar is displayed.
Auto FFC ( )	Press to enable FFC (Flat-Field Calibration) mode, and the camera calibrates image automatically at regular intervals.

Function	Description
Power Light	Press select the brightness of the power indicator light.
DPC	Press to enable DPC (Defective Pixels Correction), and you can correct the defective pixels in the image. For details, see "3.2.10 Setting DPC".
Attitude Sensing	Press to enable the attitude sensing function. In 15 s, rotate the scope along the three axes indicated by the icon, with each axis rotating at least 360°. After 15 s, the calibration completes automatically and exit to the main menu.
MIC	Press to enable or disable MIC. • Disabled: The videos will be recorded without sound. • Enabled, and the videos will be recorded with sound.

3.2.12 System Settings

Step 1 On the main menu, press or to select .

Step 2 Press to go to the **System Set** configuration screen.

Step 3 Press or to select the parameter to be configured.

Table 3-3 System settings

Parameter	Description
Auto Standby	Press to select the auto standby time. If there is no operation in the configured time, the Camera will automatically suspend.
Auto Shutdown	Press to select the auto shutdown time. If there is no operation in the configured time, the Camera will automatically shut down.
USB Mode	Press to enable the USB mode. • On: The Camera can be used as a storage device. • Off: Charge the Camera.
Unit Set	Press to select the unit from **Yd** and **Metre**.
Time Display	Press to select the display format of the time.
Time Set	Press to select the date or time to be configured; press or to set the value.
Version	View the device information such as serial number and version number.
Restore Default	Restore the device to default configuration. ⚠ This operation will restore the camera to default configuration. Please be careful.

3.3 Video and Snapshot

3.3.1 Recording Videos

On the viewing screen, press and hold for 3 seconds to start recording a video. The recording icon flashes on the screen and the recording time is display.
Press and hold again for 3 seconds to stop the recording. When the recording stops, the recording time will display normally.

For the camera with LFR, press and hold to start recording a video; press and hold again for 3 seconds to stop the recording .

3.3.2 Capturing Images

On the viewing screen, press to capture images.
The screen will display an icon when the capturing succeeds.

For the camera with LFR, press and at the same time to capture images.

3.3.3 Exporting File

Exports the recorded and captured files.

Step 1 Connect the Camera to the computer through a Type-C data cable.
The driver will automatically be installed for first-time connection.

- Connect the cables before starting the Camera. Do not hot swap the Type-C port of the Camera.
- Select **On** on the **USB Mode** configuration screen after connecting the Camera to the computer.

Step 2 On the computer desktop, double-click **My Computer**, and then open the Camera disk at a mobile storage device.

Step 3 Select the files to export and copy them to the computer.
The specific computer client is required for playing the exported files.

Step 4 Disconnect the Type-C data cable with the computer.
After connecting the Camera to the computer, images can be displayed on the Camera, but the functions of recording and capturing will not be available.

3.4 Charging

The start bar will display battery information after the Camera starts. When the battery is low, charge

the Camera timely to make sure the normal function.

- When charging the Camera, keep the battery temperature 0 ℃ to +60 ℃ (+32 °F to +140 °F). Otherwise the charging function will be automatically disabled.
- Charge the Camera with the Type-C data cable that comes with the delivery.

Step 1 Open the sealing cover of the Type-C port when charging.

Step 2 Connect the Type-C cable to the Type-C port to charge the Camera.

The charging indicator states:

- Red light on: charging.
- Green light on: fully charged.
- Off: not connected to data cable to charge.

4 System Update

4.1 Upgrading Manually

Step 1 On the main menu, press or to select .

Step 2 Press to go to the **System Settings** configuration screen.

Step 3 Press or to select .

Step 4 Press to select **On**.

Step 5 Connect the Camera and your computer, and then copy the upgrading file to the Camera.

Step 6 Disconnect the Camera and your computer, and then restart the Camera.

4.2 Upgrading through App

When the app detects new program for upgrading, it will prompt a notification. Tap **Upgrade** to upgrade the system.

Appendix 1 Compliance Notice

The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.