



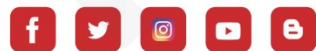
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Q InfiRay Outdoor



User Manual

V1.0

**EYE III**

**Thermal Imaging  
Monocular**

E3 Plus / E3 Max/ E6+

## IMPORTANT SAFETY INFORMATION

### Environmental influences

**WARNING!** Never point the lens directly at intense heat sources such as the sun or laser devices. The lens and eyepiece can act like burning glass and damage the interior components. The warranty does not cover damage caused by improper use Act.

### Notes on ergonomics

**Caution:** Take breaks after prolonged use to avoid wrist pain.

### Danger of ingestion

**Caution:** Do not place this device in the hands of small children. Incorrect handling can cause small parts to come loose and be swallowed.

### Safety instructions for use

- Handle the device with care: rough handling can damage the internal part batteries.
- Do not expose the device to fire or high temperatures.

for exchange by the end user.

- Use only the battery charger that is included.
- Do not disassemble the device to access the battery. The battery is not

- Only charge the device at temperatures between 0 °C and 50 °C.
- When operating in cold environments, the battery capacity decreases. This is not a fault and is due to technical reasons.
- The recommended temperature for use of this product is -20° to +50°.
- Temperatures exceeding this range will affect product life.
- Do not store the device for extended periods of time at temperatures below 20°C or above 50°C or the battery capacity will be permanently reduced.
- Always store the equipment in a dry, well-ventilated area.
- If the device is damaged or the battery is defective, please send the device to our after-sales service for repair.
- Before using this product in a water environment, make sure that the magnetic USB connector on the left side of the thermal imaging monocular is tightened securely. covered.

### **Safety instructions for the power supply unit**

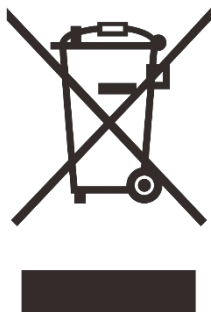
- Before use, check the power supply unit, cable and adapter for visible damage.
- Do not use any defective parts. Defective parts must be

replaced.

- Do not use the power supply in damp or wet environments.
- Use only the original cable supplied with the battery charger.
- Do not make any technical adjustments.

For more information and safety instructions, see Operation Manual supplied. This is also available on our website as a download Center: [www.infirayoutdoor.com](http://www.infirayoutdoor.com).

#### **User information on the disposal of electrical and electronic equipment (private households)**



The WEEE symbol on products and/or attached documents indicates that used electrical and electronic products must not be mixed with normal household waste. For proper treatment, recovery and recycling, take these products to the appropriate collection points where they will be admitted without charge. In some

countries, it may also be possible to return these products to your local retailer when you buy the corresponding new product.

can result from improper handling of waste.

For more detailed information on the nearest collection point, please visit your local authority. In accordance with state legislation, penalties may be imposed for improper disposal of this type of waste.

#### **For business customers within the European Union**

Contact your dealer or supplier for disposal of electrical and electronic equipment. They will provide you with further information.

Correct

disposal of this product serves to protect the environment and prevents possible harmful effects on humans and their environment that

## **Information on disposal in other countries outside Europe**

### **Association**

This symbol is valid only in the European Union. Please contact your local authority or retailer if you wish to dispose of this product and request and option for disposal.

### **Intended use**

The device is designed for displaying heat signatures during nature observations, remote hunting observations and for civilian use. This device is not a toy for children.

Use the device only as described in this manual. The

neither the manufacturer nor the seller shall be liable for any damages incurred

as a result of unintentional or incorrect use.

### **Functional test**

- Before use, please make sure that your device has no visible damage.
- Test that the device displays a clear, unobstructed image.
- Check that the device settings are correct. See notes in the Operation section.

### **Installing/removing the battery**

The EYE III series thermal imaging monocular is equipped with a battery. It cannot be removed.

### **Observation with and without glasses**

Thanks to the flexible shade, the EYE III series can be used with or without glasses. In both cases it offers a full field of vision.

# 1 Specifications

Model	E3 Plus	E3 Max	E6+
<b>Detector specifications</b>			
Type	Unrefrigerated Vox		
Resolution	384×288	384×288	640×512
Pixel size, μm	12		
NETD, mk	≤ 25		
Frame rate, Hz	50		
<b>Optical specifications</b>			
Lens, mm	25	35	35
Field of view	10,5°×7,9°	7,5°×5,7°	12,5°×10°
Magnification, ×	3,5 ~ 14	5 ~ 20	3 ~ 12
Digital zoom, ×	1 ~ 4		
Detection range, m (Target size: 1.7 m×0.5 m, P(n)=99 %)	1300	1800	1800
<b>Display Specifications</b>			
Type	OLED		
Resolution	1440 × 1080		
<b>Battery power supply</b>			
Battery type / Capacity / Output voltage	Built-in Li-ion battery / 4,2Ah / 3,6V		

Max. operating time (t=22 °C), h*	8
External power supply, <b>Physical specifications</b>	5
Intrusion protection evaluation	IP67
Memory capacity,	32
GB Wi-Fi / APP	Support (InfiRay outdoor)
Operational Temperature, °C	-20 ~ +50
Weight, g	< 500
Dimension, mm	Ø54 × 180

\* Actual uptime depends on Wi-Fi usage density and built-in in the VCR.

- It is possible to make design and software improvements to this product to improve its features without prior notice to the customer.

## 2 content packingsmall

- EYE III Monocular Thermal Imaging Series
- Magnetic data cable
- Power adapter
- Neck strap
- Wrist strap
- Drawstring bag
- Carrying bag
- Lens cloth
- Quick instructions

## 3 Description

The EYE III series thermal monocular is for outdoor use. It can be used day or night or in harsh weather (such as rain, snow, fog etc haze) without being affected by strong light. It does not require any external light source. Even targets hidden behind obstacles (such as branches, grass, and shrubs) can be observed.

The EYE III Series thermal monocular is lightweight and easy to carry,

size, convenient for one-hand operation, convenient to use and rich in functions. It can be widely used for hunting, searching in various outdoor conditions.

## 4 Functions

- Quick start or shutdown when lens cap is opened or closed
- Remote control operation, easy to use, only one hand
- 12 $\mu$ m self-developed detector
- High image quality
- Long detection distance
- Built-in memory space and microphone, support photo and video recording with sound
- Built-in Wi-Fi module, app connectivity support

## 5 Units and controls

1. Eye shade
2. Dioptic correction





3. Driver

4. Camera button

5. Magnetic charging port

6. Power indicator

7. Lens focus ring

8. Lens

9. Lens cap

## 6 Description of buttons

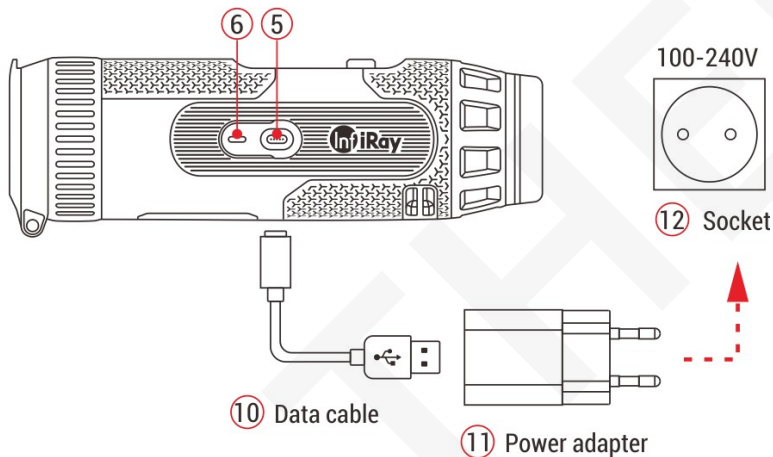
Button	Current status	press	Press and hold	To spin	
				Clockwise	Counterclockwise
Driver	Off	--	Switch on the device	--	
	Home screen	Open the local menu	Open the main menu	Digital zoom-in	Digital zoom-out
	Standby mode	Wake up the device		Wake up the device	
	Menu interface	Confirm selection	Return to the home screen	Scroll down with menu options	Navigate up using menu options
Camera button	Home screen	Once: start/stop video	Photography	--	
		Record			
	Twice: device standby				
	Standby mode	Wake up the device			
Menu interface	Return to the home screen	--			
Controller + Camera button	Home screen	--	Turn off the device	--	

**7** The charging-magnetic port(5)is red. Power indicator(6)is on only in charging state. When the power indicator(6)turns green, the device is

The EYE III series comes with a built-in rechargeable Li-ion battery, allowing up to 8 hours of operation.The **first time the device is used**




**time, please charge it fully first.**The EYE III series is equipped with a magnet hub design.

- Connect the magnetic end of the data cable(10)to the magnetic port(5) facility.
- In a bumpy environment, you can choose to pull out the magnet connector and use a standard type C cable for charging.



- Connect the other port of the data cable(10)to the power adapter(11).

fully charged.

- When charging, the icon  appears inside the battery icon lights up on the display. The illumination icon does not disappear until the data cable is connected (10)power is removed or interrupted.
- Charging is complete when the inside of the battery icon appears on the display is completely green .
- During use, when the battery icon turns red  that is.
- Insert the adapter plug into a 110-240V(12) outlet.
- When the device is charging, the power indicator(6)next to the

the power level is low, please charge the device in time to avoid data loss.

### **Safety instructions for the battery**

- The nominal voltage of the product is 5V. Please charge the device immediately when the battery is discharged, so that the thermal life of the imaging monocular will not decrease due to excessive battery discharge.
- Do not charge the device immediately when you take the battery out of a cold environment and into a warm environment. Charge after 30-40 minutes.
- Charge the device at a temperature between 0°C and +50°C, otherwise the battery life will be significantly reduced.

- Never use a damaged or modified charger.
- Do not leave the battery unattended while charging. Do not leave the device with the charger connected to the mains for more than 24 hours after a full charge.
- Do not expose the battery to high temperatures or open flames.
- Do not connect external devices with higher current consumption permitted levels.
- The battery is protected against short circuit. However, any situation that may short-circuiting must be avoided.
- Do not remove the battery from the device.
- Battery capacity may be reduced when using the battery in the negative pole temperature, that's normal, it's not a malfunction.
- Avoid using the battery at a temperature higher than the temperature in the table, it may reduce the battery life.
- If you do not use the thermal imaging monocular for a long time, charge it the device at least every 2 months and then charge to 40%-50% power store the equipment in a dry and ventilated environment.
- A partial battery charge is necessary if the battery is planned to be idle for a long time. Avid is fully charged or discharged.
- Keep the battery out of the reach of children.

## 8 Task

- Open the lens cap(9)turn on the device and the splash logo will appear on the device screen in 1 second. Also, the EYE III will be turned on by long pressing theDriver button(3)for 3s.
- When an infrared image is displayed in the eyepiece, the thermal the imaging monocular enters the operational state.
- Rotate the dioptic correction wheel(2)to adjust the resolution icon on the display. The dioptic correction knob is used to adjust the eyepiece diopters for users with varying degrees of myopia.
- **Local menu:**From the home screen, press theDriver button (3)to open the shortcut menu and set the picture mode ( ) and scene mode ( ), screen brightness ( ) and picture sharpness ( ). aDriver (3)for switching between different shortcut functions and press theDriver button (3)to set the parameters.
- **Main menu:** On the home screen, press and hold theDriver (3)on the enter the main menu interface for additional functions. TurnDriver (3)to toggle between the different functions in the main menu and press andDial (3)to select an option.
- **To take a photo/video:**From the home screen, briefly press



**aCamera** button (4) to start/stop video recording. A long press

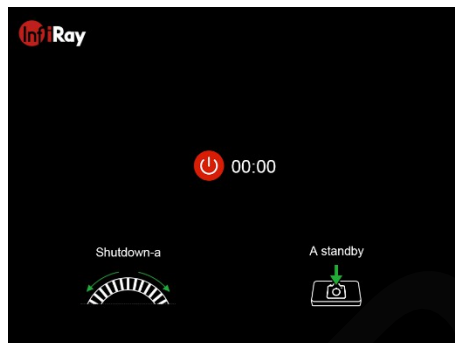
**aCamera** button (4) take photo.

- **Shutdown:** After using the device, close the lens cap(9) and the power-off interface will be displayed in 3 s. During the countdown down, **turn** the dial (3) or open the lens cap(9) again to stop it. Possibly at home

screen, press and hold

**Controller (3) + camera button**

**(4)** switch off at the same time facility.

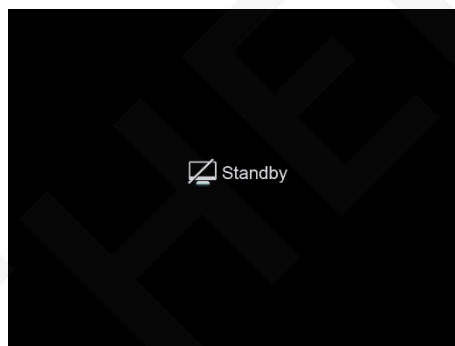


- **Standby:** While turning off the countdown, briefly press **theCamera** button (4) to activate standby mode.

Possibly at home

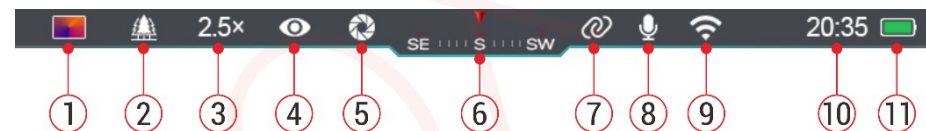
screen, briefly **pressCamera**

**button (4)** twice to standby mode





the device. If no operation is performed for 30 minutes, the product is automatically switched off.

## 9 Status bar



The status bar is located at the top of the image interface and displays information related to the current operating status of the device.

1. Current picture mode ( : White-hot; : Black-hot; : White-hot; : Spirit)
2. Current scene mode ( : Woods; : Plain; : Concentrate; : City)
3. Actual digital zoom (1.0× to 4.0× adjustable, with 0.5 intervals, for example, 1.5×)
4. Ultra bright mode status (displayed when mode is on)
5. Automatic calibration (displayed when enabled)
6. Compass (displayed when the compass is on)
7. Connection (displayed when successfully connected, will not display at the same time as the Wi-Fi icon)
8. Microphone (displayed when on)
9. Wi-Fi status (displayed when enabled, not displayed at the same time as the connection icon)
10. Clock (time synchronisation in InfiRay Outdoor)

11. The power status of the built-in battery. (When the color in the battery icon  is green, it means the battery percentage is higher than 20% and the power is sufficient. When the color of the icon is red the power is insufficient and needs to be charged immediately. When the flash icon  appears in the battery icon, the device is powered by an external power source and the battery is charging)

## 10 Image calibration

When the image is degraded or uneven, it can be improved by calibration.

Calibration can equalize the background temperature of the detector and

remove image defects (such as vertical bars, fictitious images, etc.).

Two calibration modes are available - Auto Calibration and Background Calibration.

- **Automatic calibration** : The device will automatically calibrate according to software algorithm. No need to close the lens hood (internal the shutter covers the sensor). Turn auto calibration on/off in the main menu,

## 11 Taking photos and recording videos


The EYE III series is equipped with a video recording function and photographing the observed image, which is stored on the built-in 32GB memory storage.

Photo and video files are named by time, so it's recommended to sync the date and time in the InfiRay **outdoor app** before using the photo and video feature.

### Photography

- From the home screen, press and hold **theCamera** button (4) to take and Photographs.

referring to Main **Menu - Auto Calibration.**

 When taking a photo, the photo icon in the top left corner

Screen. The photo is taken successfully when the icon disappears.



- Photos are stored in the built-in
- **Background Calibration:** Close the lens cap(9)to perform automatic background calibration.

flashes below the status bar  
storage space.

- When the exclamation mark icon  will appear on the right side

THERMFOXX



camera icon, it will alert you when there is insufficient memory space. Check

and transfer videos and images to other media to free up space.

### Video recording

- On the home screen, briefly press **theCamera** button **(4)** to start the video recording function.
- Then the recording timer in the format HH:MM:SS (hour:minute:second) is displayed in the upper right corner of the display.
- Supported during recording
  - long press to take a photo
- **zCamera** button **(4)**. zOf course, other device operations are supported during recording.
- Briefly press the **Camera** button **(4)** again to stop record.
- All videos and photos are saved to the built-in storage.



Note

- You can open and control the menu while the video is being recorded.
- Captured images and recorded videos are stored in the built-in

memory space in PIC\_HHMMSS.jpg (picture) and VIDEO\_HHMMSS.mp4 (video) format, with HHMMSS hour/minute/second indication.

- The maximum length of a video recording file is 30 minutes. When the length is longer than 30 minutes, the video will automatically start uploaded to a new file.
- The number of files is limited by the internal memory of the device. Check the remaining space regularly and transfer your videos and pictures to other media to free up space on the memory card.

### Memory access

When the device is switched on and connected to the computer, it is The computer recognizes it as a flash memory card that is used to access the device's memory and make copies of images and videos.

- Connect the device to your computer using a Type-C data cable.
- Switch on the device for operation. You can view the recorded videos and photos on your computer and charge the built-in battery the same time.
- Double click on "my computer" on the desktop - select USB

flash drive and double-click to open the storage area.

- There are different folders named by time in xxxx (year) format xx (month) xx (day) in memory.
- You can select the desired files or folders to copy or delete operations.

## 1D2 digital zoom

- Fast support for the EYE III series increase magnification by 1,5x / 2x / 2,5x / 3x / 3,5x / 4x, as well as revert to the basic 1x magnification.



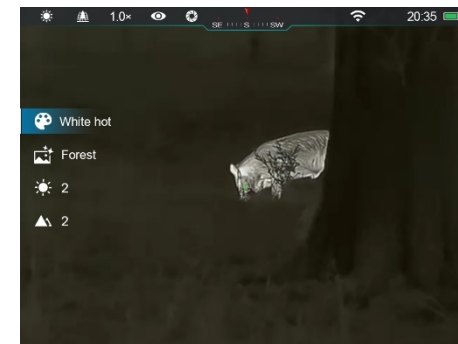
- Clockwise on the home screen rotateDriver (3) for digital zoom and rotateDriver (3) counterclockwise for digital delay.
- The corresponding magnification is displayed in the status bar.

## 1F3 local offer items

You can quickly edit basic configurations in the local menu commonly used features, including picture mode, scene mode, screen brightness and sharpness of the image.

- From the home screen, press the Driver button (3) to access the local menu.
- Turn the Rotary encoder (3) to switch between the options.
  - **Picture mode** (☉) Select and press the **Rotary** encoder (3) to change the picture mode. Four modes are available - White hot, Black hot, Red hot and Rainbow.

- **Scene mode** (🌲) Select and press the **Rotary pushbutton** (3) to change the picture mode. There are four modes - forest, plane, Focus and city.




- **Screen brightness** (☀) Select an option and press **Rotary pushbutton** (3) to switch the screen brightness from level 1 to level 6.
- **Image sharpness** (▲) Select an option and press **Controller** (3) to switch the image sharpness from level 1 to level 4.

- Press and hold Driver (3) to save changes and return to Home screen.
- Automatically saves changes and returns to the home screen if no operation will take place within 5s.

## 1F4 main menu

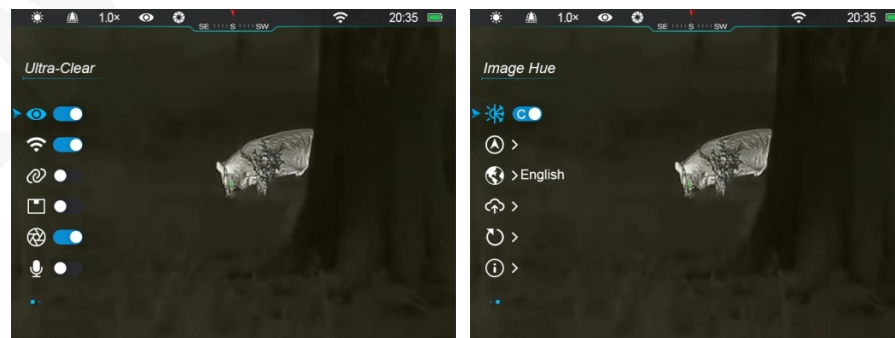
- From the home screen, press and hold the Driver button (3) to enter the main menu interface.
- There are two pages of feature options. **Rotate Driver (3)** to switch between menu options.
- The menu navigation is cyclical: as soon as the last menu item of the first If you reach the page, it switches to the first menu option of the second page when rotating clockwise Driver (3) and vice versa.
- Briefly press Driver (3) to adjust the current parameters or




### Options and description of the offer





<p><b>Ultra-Clear</b></p> 	<p><b>Turn Ultra-Clear mode on/off</b></p> <ul style="list-style-type: none"> <li>● Press and hold the Driver (3) to enter the main menu interface.</li> <li>● Turn the rotary pushbutton (3) to select <b>the Ultra-Bright</b> option. When entering the menu, Ultra-clear is selected by default</li> </ul>
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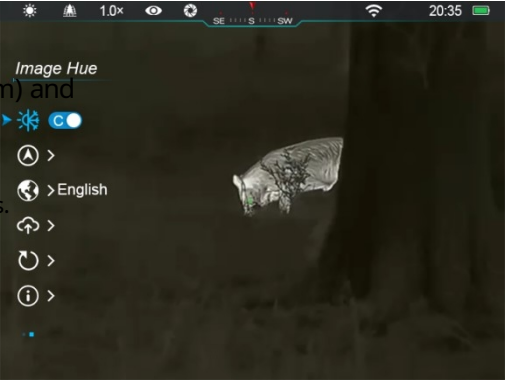

enter the partial offers.

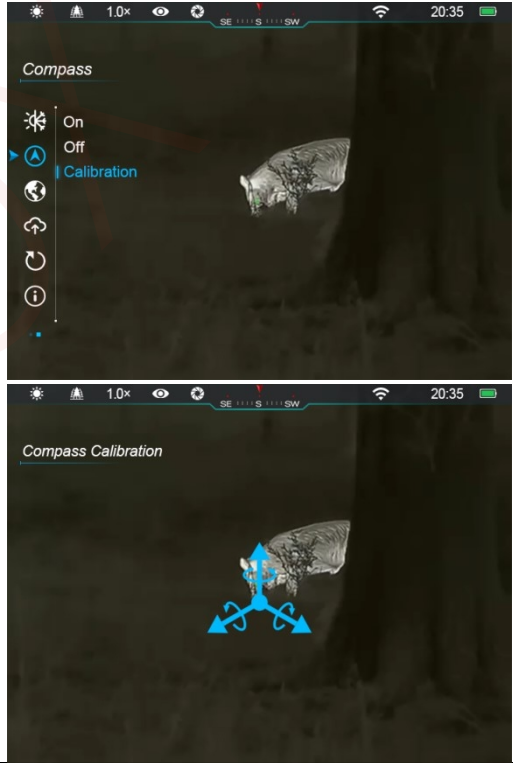

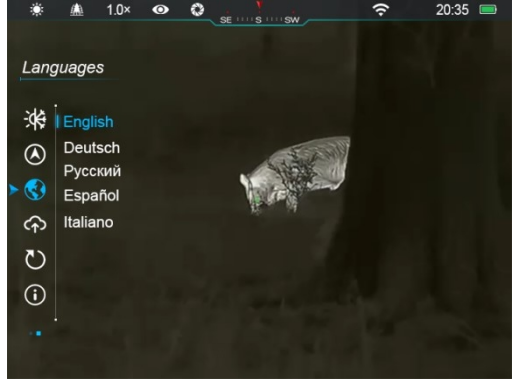
- In all menu interfaces, press and hold the Driver (3) save and return to the home screen or briefly press **the Camera** button (4) on the return to the home screen without saving.
- The home screen menu automatically exits when no operation will take place within 10 seconds.
- During continuous operation of the EYE III, when you leave the main menu, the cursor will remain at the position before leaving. When you restart the thermal imaging monocular and enter the main menu for the first time the cursor will remain at the first menu option.





	<p>interface for the first time after power-up.</p> <ul style="list-style-type: none"> <li>● Briefly press the Rotary encoder <b>(3)</b> to switch <b>Ultra-Bright</b> mode on/off, during which you will hear the shutter calibration click.</li> <li>● When the function is switched on/off, the icon in the status bar changes accordingly.</li> <li>● When <b>Ultra-Bright</b> is on, the image contrast is increased, which is suitable for rain, fog and other harsh conditions weather conditions.</li> </ul>
<p style="text-align: center;"><b>Wi-Fi</b></p> 	<p><b>Turning Wi-Fi on/off</b></p> <ul style="list-style-type: none"> <li>● Press and hold the Driver <b>(3)</b> to enter the main menu interface.</li> <li>● Turn the rotary pushbutton <b>(3)</b> to select <b>the Wi-Fi</b> option.</li> <li>● Press the rotary pushbutton <b>(3)</b> briefly to switch the Wi-Function <b>on/off</b>.</li> <li>● <b>When Wi-Function</b> is enabled, the default password is displayed after 3 seconds of Wi-Function.</li> <li>● The password is only displayed three times the first time. After the password is changed, it is not displayed.</li> <li>● When the function is enabled, an icon will appear on the status bar accordingly.</li> <li>● When the <b>Wi-Fi</b> is on, it can be connected to a mobile device such as a smartphone to transfer data over Wi-Fi.</li> </ul> <p><b>Note:</b> The Wi-Fi function will not be enabled when the link function is turned on.</p> <p><b>Enable/disable linking</b></p> 
<p style="text-align: center;"><b>Link</b></p> 	<ul style="list-style-type: none"> <li>● Press and hold the Driver <b>(3)</b> to enter the main menu interface.</li> <li>● Turn the Rotary encoder <b>(3)</b> to select <b>the Connected</b> option.</li> <li>● Press the rotary pushbutton <b>(3)</b> briefly to switch the function <b>on/off</b>.</li> </ul>

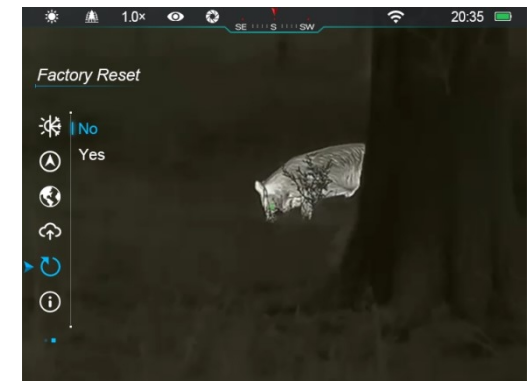
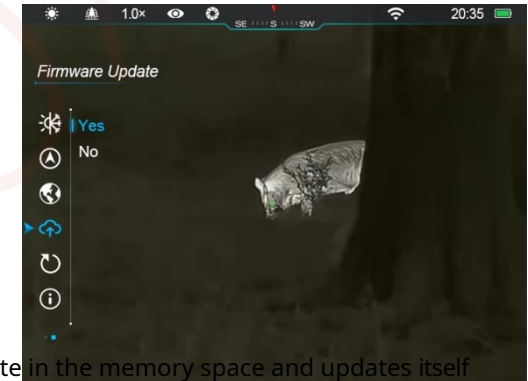
	<ul style="list-style-type: none"> <li>● When enabled, it automatically finds a WIFI hotspot called ICS and the password is 12345678.</li> <li>● The method of linking is given in section <b>16Method for Linking.</b></li> <li>● Only after a successful connection, an icon will appear on the status bar.</li> </ul> <p><b>Note:</b>You cannot activate the link function and the Wi-Fi function at the same time, that is, the Wi-Fi function will not be enabled when the linking function is turned on, and vice versa.</p>	
<p><b>PIP</b></p> 	<p><b>Turning PIP on/off</b></p> <ul style="list-style-type: none"> <li>● Press and hold the Driver <b>(3)</b> to enter the main menu interface.</li> <li>● Turn the rotary pushbutton <b>(3)</b> to select <b>the IP option.</b></li> <li>● Press the rotary pushbutton <b>(3)</b> briefly to switch the IP function <b>on/off.</b></li> <li>● When PIP When the feature is enabled, a small window and a blue box screen will appear. The image in the separate window is a 2x magnified image depicted by the blue box in the main picture.</li> </ul>	
<p><b>Automatic calibration</b></p> 	<p><b>Enable/disable automatic calibration</b></p> <ul style="list-style-type: none"> <li>● Press and hold the Driver <b>(3)</b> to enter the main menu interface.</li> <li>● Turn the <b>Rotary</b> encoder <b>(3)</b> to <b>select Automatic calibration column.</b></li> <li>● Press the rotary pushbutton <b>(3)</b> briefly to switch the automatic <b>calibration function on/off.</b></li> <li>● When Automatic <b>calibration</b> When the function is enabled, the icon in the status bar will be displayed accordingly.</li> </ul>	

<p><b>Microphone</b></p> 	<p><b>Switching the microphone on/off</b></p> <ul style="list-style-type: none"> <li>● Press and hold the Driver (3) to enter the main menu interface.</li> <li>● Turn the Rotary encoder (3) to <b>select Microphone option</b>.</li> <li>● Press the rotary pushbutton (3) briefly to switch the microphone function <b>on/off</b>.</li> <li>● <b>When Microphone</b> When the function is enabled, the icon in the status bar will be displayed accordingly.</li> <li>● When the <b>microphone</b> is on, sound around the device will be synchronously collected during video recording.</li> </ul> <p><b>Set the tint of the image</b></p>
<p><b>Image shade</b></p> 	<ul style="list-style-type: none"> <li>● Press and hold the Driver (3) to enter the main menu interface.</li> <li>● Turn the Rotary encoder (3) to select <b>Image shade choice</b>.</li> <li>● Press the rotary pushbutton (3) briefly to switch the <b>picture shade between W (warm) and C (cold)</b>.</li> <li>● The image in cold colours is brighter and the image in warm colours is softer and protects the eyes.</li> <li>● Switching between warm and cool shades cannot be used with Rainbow mode.</li> </ul> <p><b>Set the compass</b></p> 
<p><b>Compass</b></p> 	<ul style="list-style-type: none"> <li>● Press and hold the Driver (3) to enter the main menu interface.</li> <li>● Turn the rotary pushbutton (3) to <b>select Compass option</b>.</li> <li>● Press the Remote button (3) briefly to enter the <b>Compass functions submenu</b>.</li> <li>● In the submenu, you can select <b>Rotate Compass on/off</b> function or select Calibration to calibrate the compass.</li> </ul>

	<ul style="list-style-type: none"> <li>● Turn <b>theDriver (3)</b> to select an option and press <b>theDriver (3)</b> button to confirm your selection.</li> <li>● When <b>Compass</b> is on, the on peak is displayed in the middle of the status bar.</li> </ul> <p><b>Calibrating the compass</b></p> <ul style="list-style-type: none"> <li>● <b>When Calibrate is</b> selected, briefly press <b>Driver (3)</b> to enter the compass calibration interface. The icon appears as a three-axis coordinate system screen.</li> <li>● Within 15 seconds, rotate the telescope along the three axes marked with the icon, with each axis rotating at least 360°.</li> <li>● After 15s, the calibration automatically stops and goes to the main menu interface.</li> </ul> <p><b>Set the GUI language</b></p> <ul style="list-style-type: none"> <li>● Press and hold <b>theDriver (3)</b> to enter the main menu interface.</li> </ul>	
<p><b>Lang uage</b></p> 	<ul style="list-style-type: none"> <li>● Turn the rotary pushbutton <b>(3)</b> to select <b>theLanguage</b>.</li> <li>● Briefly press the <b>Driver (3)</b> to enter the language submenu.</li> <li>● The EYE III series supports five languages, which are English, German, Russian, Spanish and Italian.</li> <li>● <b>Turn</b> the rotary pushbutton <b>(3)</b> to select the desired language.</li> </ul>	



	<ul style="list-style-type: none"> <li>● Confirm your selection by briefly pressing the Driver button <b>(3)</b> and you will automatically return to the main menu interface.</li> </ul> <p><b>Note:</b> Resetting the device to factory settings will not restore the language.</p>
<p><b>Firmware</b></p> <p>Update</p> 	<p><b>Firmware updates</b></p> <ul style="list-style-type: none"> <li>● Press and hold the Driver <b>(3)</b> to enter the main menu interface.</li> <li>● Turn the Rotary encoder <b>(3)</b> to select <b>the Update firmware option.</b></li> <li>● Briefly <b>press Driver (3)</b> to open the firmware update submenu of the function.</li> <li>● <b>Turn</b> the Rotary encoder <b>(3)</b> to select Yes or No and press the <b>Rotary encoder (3)</b> to confirm the selection.</li> <li>● When you select Yes, it automatically searches for the update file in the folder named update in the memory space and updates itself it.</li> <li>● For details on the update, see Section 17 <b>Firmware Update.</b></li> </ul> <p><b>Note:</b> Before updating, make sure the device performance is sufficient.</p> <p><b>Restore factory settings</b></p>
<p>Restore factory settings</p> 	<ul style="list-style-type: none"> <li>● Press and hold the Driver <b>(3)</b> to enter the main menu interface.</li> <li>● Turn the rotary pushbutton <b>(3)</b> to <b>select Factory</b> reset.</li> <li>● press Driver <b>(3)</b> to open <b>the Factory</b> Reset submenu.</li> <li>● <b>Turn</b> the Rotary encoder <b>(3)</b> <b>select Yes</b> to reset to factory settings or <b>No</b> to reset cancellation of the operation.</li> <li>● press Driver <b>(3)</b> to confirm the selection.</li> </ul>



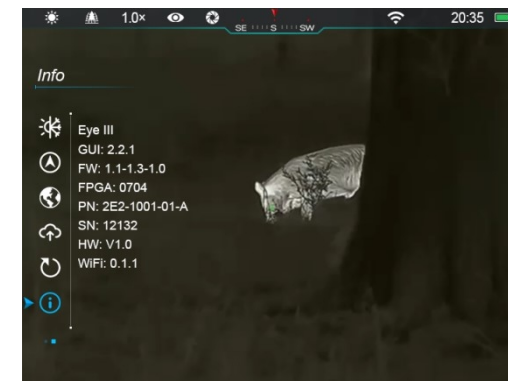
- **LiAnois** selected, the range will restart automatically.
- LiNot selected, it will automatically return to the top menu. The following functions will be restored to their default settings:

- |  |                                      |                          |
|--|--------------------------------------|--------------------------|
| - <b>Picture mode:</b> white-hot       | - <b>Automatic calibration:</b> on   | - <b>Connection:</b> Off |
| - <b>Scene mode:</b> forest            | - <b>Image shade:</b> C              | - <b>PIP:</b> Off        |
| - <b>Screen brightness:</b><br>level 2 | - <b>Ultra-Clear mode:</b> off       | - <b>Microphone:</b> Off |
| - <b>Image sharpness:</b> level 3      | - <b>Wi-Fi:</b> Off                  | - <b>Compass:</b> Off    |
|  | - <b>Wi-Fi password:</b><br>12345678 |                          |

- **Magnification:** 1×

**View device information**

- Press and hold the **Driver (3)** to enter the main menu interface.
- Turn the rotary pushbutton to **select Info**.
- Press the button briefly to display relevant information about the device **Driver (3)**.
- This item allows the user to view the following information: product model, SN number, PN number, hardware version, software version and FPGA version.
- Press the **Camera** button **(4)** briefly to return to the home screen.



## 15 Features Wi-Fi

The EYE III series can be connected to a mobile device (laptop or mobile phone) for data transfer via Wi-Fi.

- Switch on the Wi-Fi function in the main menu (see **Main menu - Wi-Fi** details).
- After turning on the Wi-Fi feature, search for a Wi-Fi signal called "EYEIII\_XXXXX-XXXXXX" on your mobile device, XXXXX-XXXXXX is the serial number of your device made up of numbers and letters.
- Select Wi-Fi and enter your password to connect. The initial password is 12345678.
- When Wi-Fi is successfully connected, it supports device control via InfiRay **outdoorApplication** downloaded to your mobile device.

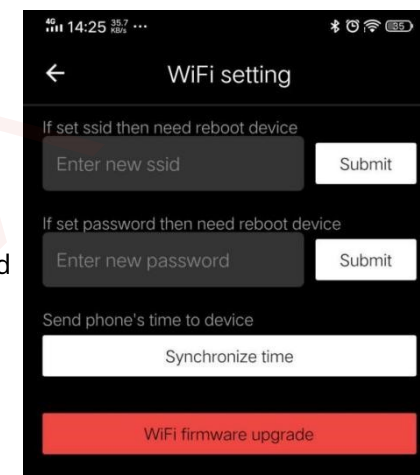
### To set a Wi-Fi name and password

The Wi-Fi name and password in the EYE III series can be reset to

**InfiRay outdoorApplications.**

- Once the device is connected to the mobile device, locate and click on the 'Settings' icon on the **InfiRay** outdoor screen to enter the **Interface Settings.**

- Enter and submit the new Wi-Fi name (SSID) and Password in the text box.
- To do this, you need to restart the device accept new username and password Effect.



**Note:** If the device is reset to factory settings, the name and the Wi-Fi password will also be reset to the default settings.

## 16 Method for interconnection

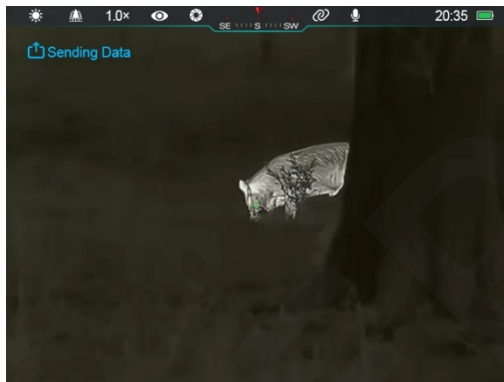
### Connecting to a mobile device

- Turn on the personal hotspot on your mobile device and edit its name and password for ICS and 12345678.
- Turn on linking in the main menu by following the instructions **Main Menu - Linking** details.

- When connecting feature is enabled, it will automatically search for a hotspot with the name ICS and the password is 12345678.



- When connecting status bar icon and prompt 'Sending data' appears on the top left corner display, that is, the connection between two devices are successful.



- Then open the InfiRay Outdoor app on your mobile device, you can control the device in InfiRay Outdoor without affecting the internet mobile device features.

## Link between EYE III

Two EYE III devices can also be linked manually.

- First, turn on Wi-Fi on one device. And turn on

the link function on the other device.

- Change your Wi-Fi name and password for faster connection on ICS and 12345678 in the InfiRay Outdoor app before connecting.
- At the same time, press **theCamera button (4) + controller (3)** briefly to start pairing.
- When two EYE IIIs are connected, it is the one whose Wi-Fi is enabled that sends data and the other

the one that links the data receiver is switched on. The screen image displays the sender data on the receiver screen.



- Call for 'Sending Data' or "Receiving Data" and the default Wi-Fi name will appear at the top left of the connection of the two screens.

- Short **pressCamera button (4)** to switch



between sender and  
receiver of data.

- During image transfer, you can still perform operation on the OKO III, except for taking pictures and shooting video.
- Note that once the Internet function is turned on, the device cannot turn on on the Wi-Fi function.

## 17 Firmware update

- Notifications of updates will be posted on the official website or social media or the InfiRay Outdoor APP.
- Download the update file on the official website (www.infirayoutdoor.com) and save it in a folder called "update".  
EYE III memory space.
- Press and hold the Driver (3) to enter the main menu interface.
- Turn the Rotary encoder (3) to select **the Update firmware option**.
- Briefly press Driver (3) to enter the firmware submenu  
Update.
- Turn the Rotary encoder (3) to select **"Yes"** and press the **Rotary encoder (3)** to confirm your selection.
- The device automatically searches for the update file stored in

- Make sure your device is fully charged before updating.

## 18 InfiRay Outdoor

a folder called "update" in the EYE III memory space.

- Monocular Thermal Imaging Support EYE III InfiRay **Outdoor** Series

technology that enables the transmission of images from a monocular

to your smartphone or tablet via Wi-Fi in real-time.

- Detailed instructions can be found on the InfiRay outdoor on page [www.infirayoutdoor.com](http://www.infirayoutdoor.com).
- Download and install InfiRay **Outdoor** on the official website ([www.infirayoutdoor.com](http://www.infirayoutdoor.com)) or the app store or scan the QR code below.



## 19 Technical inspection

It is recommended to carry out a technical check before each use of the monocular. Check the following:

- Appearance (there should be no cracks on the body).
- Condition of the subject lens and eyepiece (no cracks, greasy spots, dirt or other deposits).
- Battery status (should be charged).
- Driver/button should be functional.

## 20 Maintenance

Maintenance should be carried out at least twice a year and includes the following steps:

- Wipe the surface of metal and plastic parts to remove dust and dirt with a cotton cloth. Silicone lubricant can be used for cleaning.
- Clean the electrical contacts and battery slots on the device using an oily organic solvent.
  - Check the glass surface of the eyepiece and lens. If necessary, clean dust and sand on the lens (perfect is to use the non-contact method).

Use a special wiper tool and solvent to clean optical surfaces.

## 21 Legal and regulatory information

Frequency range of the wireless transmitter module:

**WLAN: 2.412-2.472 GHz (for EU)**

Wireless transmitter module power < 20dBm (EU only)

**CE** IRayTechnology Co., Ltd. hereby declares that the EYE III series of thermal imaging monoculars complies with Directives 2014/53/EU and 2011/65/EU. Full text

**UK  
CA** EU Declaration of Conformity and other information available at: [www.infirayoutdoor.com](http://www.infirayoutdoor.com).

This device can be operated in all EU Member States.

### FCC Statement

**FCC ID: 2AYGT-2K-00**

### Labelling requirements

This device complies with Part 15 of the FCC Rules. Operation is subject to



the following two conditions must be met: (1) This equipment must not cause harmful interference, and (2) this equipment must accept any interference received, including interference that may cause undesired operation.

#### **Information for users**

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

**Note:**The manufacturer is not responsible for any interference to the radio or television

caused by unauthorised modifications to this equipment. Such modifications 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 under Part 15 of the FCC Rules. These limits are designed to provide adequate protection against harmful interference in residential installation. This device generates use and can emit 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 causes harmful interference to radio or television reception, which can be determined by

when turning the device off and on, the user is advised to try to fix interference from one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit other than the one to which the receiver is connected.
- Ask your dealer or an experienced radio/TV technician for help.

This device complies with the FCC's limits for exposure to radio frequency radiation uncontrolled environment.

### **Operation on the body**

This device has been tested for typical body support operations. In accordance with

RF exposure requirements, a minimum distance of 0.5 cm must be maintained between the user's body and the handset, including

Antenna. Belt clips, holsters and similar third party accessories used by the company this device should not contain any metal parts. Body accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or approved antenna.