

Table of content

Introduction	1
Considerations	1
Key description	1
Product structure	2
Charge Description	3
Connect with a computer	3
Instructions for battery installation	3
Operating instructions	4
Menu introduction	7
Menu operation	8
Introduction to the application software	13
Performance index	15

Introduction

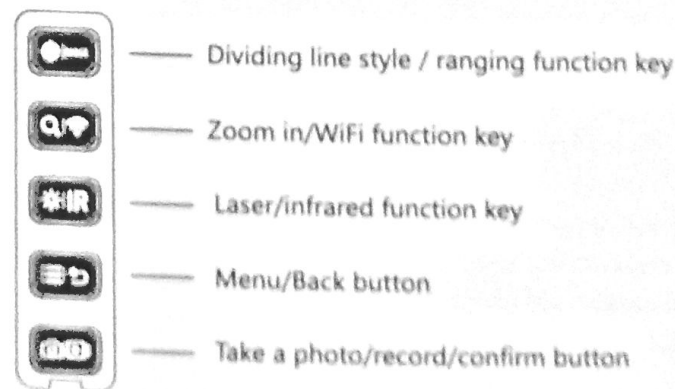
This product is a day and night dual-purpose infrared night vision apparatus, and suitable for natural observation, outdoor hunting, outdoor exploration, marine operations, night patrol, etc.


Considerations

To ensure the correct use of this product, please read the instruction manual carefully:

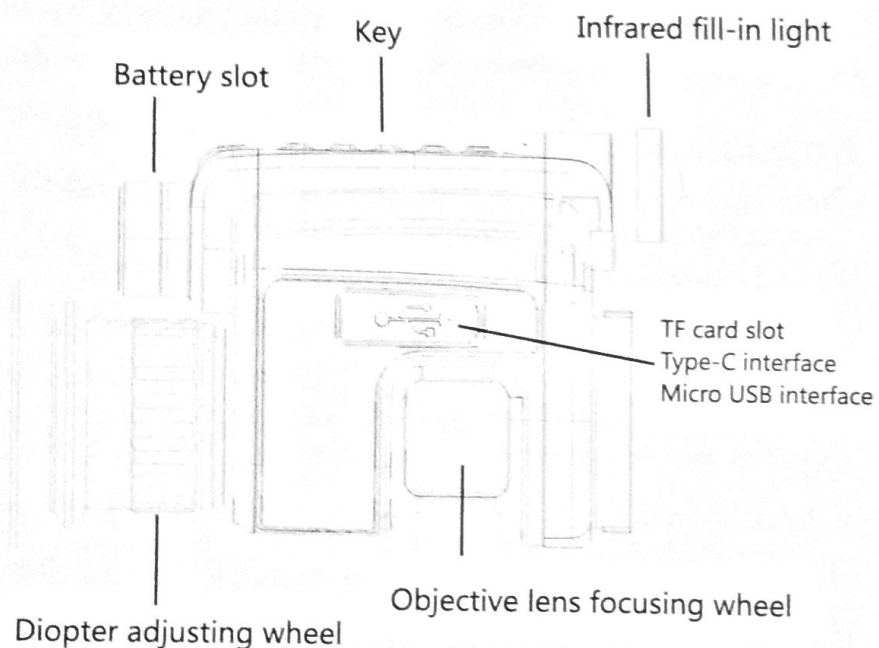
- Don't irradiate the eyes of people or animals with laser.
- Please don't look at the infrared fill-in light directly so as to avoid damage to the eyes.
- When the infrared fill-in light is on, do not aim at flammable objects for a long time at a short distance.
- When this product is not used, please turn off the infrared fill-in light or power it off.

Key description



After the WiFi function is turned on, other key operations are invalid except  key and the power key is held down.

Product structure



Micro USB interface: used to charge or connect with a computer.

Type-C interface: only used for ranging function, not for charging or connecting with a computer. The ranging function belongs to the expansion function, and it needs to be connected to the ranging module to use.

Charge Description

When the battery level is low, please use the adapter supplied by the factory to charge the night vision device. When charging, the USB cable is inserted into the micro USB interface, and when fully charged, the USB cable is removed.

Tips: if you don't use this product for a long time, charge it at least once every three months to avoid too long storage time. The battery level will be low due to self discharge, which may cause irreversible capacity loss.

Connect with a computer

Use USB cable to connect the micro USB interface of the computer and night vision device so that you can view or export images and videos on the computer.

Note: the type-C interface cannot be used to charge or connect a computer.

Instructions for battery installation

1. Open the battery cover: screw off the battery cover in anticlockwise direction.
2. Install the lithium battery: put the battery into the battery slot with the negative pole of the battery facing outward.
3. Install the battery cover: tighten the battery cover in clockwise direction.



Operating instructions

Power On/off

Hold down "⏻" key to power on / off.

Switch the division line style

Press the "🔑" key to open the division line line, and continue to press the key to switch the division line style

Magnify the image

Press "📷" key to magnify 2x → 3x → 4x → return to normal.

WiFi function

1. Application software acquisition: scan the following two-dimension code or search "vision bank" in the application store to download and install.



2. Hold down the "📶" key to open the WiFi function, and the WiFi name and password will be displayed in the upper left corner of the screen.

3. Turn on the WLAN function of the mobile phone, and find the WiFi of the night vision device and connect it.

4. Open the vision bank of the application software and click "🔴" key to view the real-time image.

5. If you don't need to use WiFi function, please hold down "📶" key again to turn off WiFi function, which can reduce power consumption and extend battery life.

Laser

Press the "🌟" key to turn on/off the laser.

Infrared fill-in light

Hold down the "🌟" key for 5 times continuously, and the order is: turn on the infrared fill-in light → turn up the brightness to level 1 → turn up the brightness to level 2 → turn up the brightness to level 3 → turn off the infrared fill-in light.

Camera/video function

Press "📷" key to take a photo.

Hold down "📹" key to start videoing, and the recording duration is displayed in the upper right corner of the screen.

Hold down "📷" key again to end recording.

Adjust the diopter

The diopter is adjusted so that users with different vision can see clearly what is displayed on the screen.

Rotate the diopter adjustment wheel until you can clearly see the text or symbol displayed on the screen.


Objective lens focusing

When observing different targets, you need to adjust the focusing wheel of the objective lens until you can see the target clearly.

Sleep function

After power on, press the "⏻" key to enter sleep, and then press the "⏻" key again to wake up the night vision device.

Menu introduction

Menu	Item	
Photo resolution	5M、3M、2M	
Video resolution	1080P、720P	
ISO	Automatic、100、200	
Color	Normal, black and white, green, film	
Exposure Compensation	+1/3、+0.0、-1/3、-2/3、-1.0	
Laser ranging	On, off	
Crossing division line	Crossing division line style	7 styles available / off division line
	Crossing division line color	Red, blue, yellow
	Position adjustment of division line	X、Y
LCD brightness adjustment	-  +	
Automatic power off	Off, 5 minutes, 10 minutes	
Language settings	Simplified Chinese, traditional Chinese, English, pycckuu, Italiano, Japanese, Francais, Espanol, Destsch	
Date/time	Year/month/day/hour/minute	
Formatting	Format setting, cancel	
Playback image	View images and videos	
Default setting	Restore default, cancel	
Edition	Display version number of this device	

Menu operation

Press "☰➔" key to open/close the menu. After opening the menu, press "Q📶" key to navigate up and press "*IR" key to navigate down. Press "📷" key to open the next menu, and press "☰➔" key to return to the previous menu.

Color

Select "color" in the menu bar, press "📷" key to open the color option, press "Q📶" key or "*IR" key to select one of the colors, and press "📷" key to confirm.



Normal



black and white



Green



film

Setting of the crossing division line

Press "*IR" key in the menu bar to select crossing division line, and press "📷" key to open the crossing division line.

Style setting of the crossing division line: select one of the 7 styles, or select to turn off the crossing division line, and press the "📷" key to confirm.

Color setting of the crossing division line: select one color from three colors of red, blue and yellow, and press "📷" key to confirm.

Position adjustment of the crossing division line: press the "📷" key to switch the x-axis or y-axis, and the red font indicates the state of being selected. Press "*IR" key or "Q📶" key to move the division line.

X : +00 press "*IR" key, the value of X-axis is increased by 1 and the crossing division line moves rightwards. Press "Q📶" key and the value of X-axis is decreased by 1 and the crossing division line moves leftwards.

Press "📷" key to select Y axis.

X : +00

Y : +00 Y : + 00 press "Q📶" key, the value of Y-axis is increased by 1, the division line moves downwards.

Press "*IR" key, the value of Y-axis is decreased

by 1. The division line moves upwards.

Tip: Hold down "Q/W" key or "*IR" key to move the division line quickly.

LCD brightness adjustment

Press "*IR" key in the menu bar to select "LCD brightness adjustment"; press "CAM" key to open the LCD brightness adjustment interface, press "Q/W" key to turn up the brightness, and press "*IR" key to turn down the brightness.

Language settings

Press "*IR" key in the menu bar to select "language settings", press "CAM" key to open the language selection interface, press "*IR" key to select the language you need, press "CAM" key to confirm and return to the previous menu.

Time setting

In the menu bar, press "*IR" key to select "date / time". Press "CAM" key to open the time setting interface. You can set year, month, day, hour and minute. Press "CAM" key to select the item to be set, and press "Q/W" key or "*IR" key to adjust the selected item. After setting, press "CAM" key to confirm.

Exposure compensation

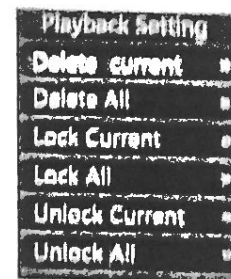
In the menu bar, press "*IR" key to select "exposure compensation", press "CAM" key to open the exposure compensation selection interface, press "*IR" key to select the option you need, press "CAM" key to confirm and return to the previous menu.

Images playback

Press "*IR" key in the menu bar to select "Images playback", press "CAM" key to enter the image/video file interface, press "Q/W" key or "*IR" key to switch image/videos, press "CAM" key to start playing video or stop playing video, and hold down "*IR" to exit image/video viewing.

Playback settings

When viewing images/videos, press the "CAM" key to open the "playback settings" menu. Under this menu, you can delete, lock, unlock image/video files. After you lock the file, the file will be protected and cannot be deleted.



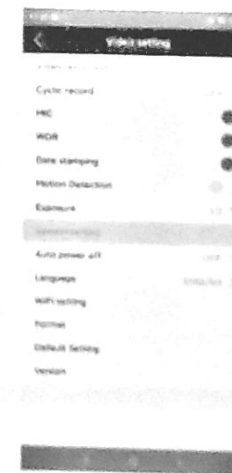
Format

In the menu bar, press “*IR” key to select “format”, press “📷” key to enter the format setting interface and select “format setting” option; press “📷” key to confirm the format, if no format is needed, select “Cancel” option and press “📷” key to exit.

Restore default settings

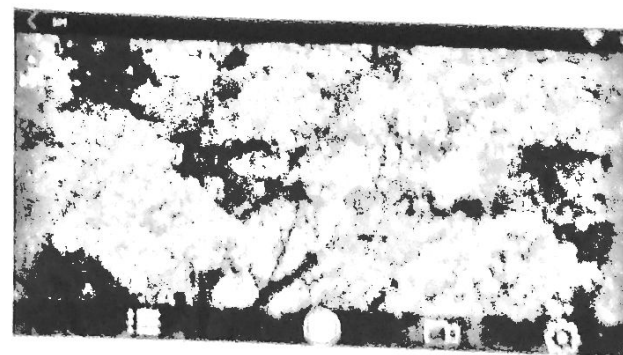
In the menu bar, select “*IR” key and select “restore default”, press “📷” key to enter the interface of restoring default settings, select “restore default”, press “📷” key to restore default settings. If you do not need to restore the default Settings, select the “Cancel” option and press “📷” key to exit.

Introduction to the application software



Setting interface

After the mobile phone is successfully connected to WiFi of the night vision device, click this key to enter the image display interface.



Real-time image

View images/videos

Photo/video

Open the setting interface

Switch between photo/video mode

Delete image/video



① Click this button to open the image/video preview interface



② Click "select"



③ Click the image/video file to be deleted



④ Click this button to delete the selected image/video.



Performance index

LCD resolution	1280x960
Frame rate	30fps
Image resolution	5M (2880x1620)、3M(2304x1296)、2M(1920x1280)
Video resolution	1920x1080 ; 1280x720
Image format	JPG
Video format	MP4
WIFI function	Support
Digital zoom	2x ; 3x ; 4x
Infrared wavelength	850nm
Infrared range	200m
Infrared power	5W
Power Supply	A 18650 lithium battery; 2200mAh
TF card	8G(Maximum support 32G)
Interface type	Micro USB ; Type-C
Working hours	About 5 hours (WiFi off)
Automatic power-off time	Off, 5 minutes, 10 minutes
Weight	330g
Product size	135x85x53mm
Working temperature	0°C to 45°C
Storage temperature	-20°C to 60°C