

# **NIGHT VISION GOGGLES**

**USER MANUAL**



## Table Of Contents

Introduction .....	3
Product Overview .....	4
Use Reminders .....	5
Power Supply .....	6
Adjustment Mode .....	7-9
MENU Function .....	10-11
LCD Display Information .....	12-14
Product Parameters .....	15
Download Files To The PC .....	16
Question & Answer .....	17-18
Tips & Warnings .....	19-20

## Introduction

- ◆ Thank you for purchasing the Night Vision Binoculars.
- ◆ This manual will help you optimize your viewing experience by explaining how to utilize the binoculars' controls and features, and how to care for them.
- ◆ Read the instructions carefully before using your night vision binoculars.
- ◆ The Night Vision Binoculars can be used day and night. The IR light is not turned on during the day, and the pictures/videos are displayed in color. In low light conditions or even complete darkness, turn on the IR lights to see your surroundings. You can also take photos and videos, which will be stored on the included 32 GB micro SD card.
- ◆ Download them to your computer using a TF card reader or USB cable.

**Note:** To see the image display more clearly, please keep a certain distance between your eyes and the eyepiece/display during use, do not come close.

**We are always happy to help!**

# Product Overview



1. Lens

2. Manual Focus Wheel

3. TF Slot

4. USB Port

5. Menu Button/Return Button

6. Mode Button

7. Power ON/OFF

8. OK/Shoot Button

9. IR Down/Zoom Out/Down Button

10. IR Up/Zoom In/Up Button

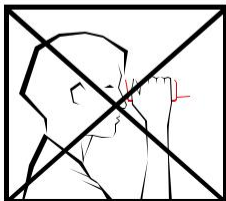
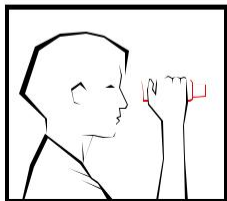
11. Infrared Illuminator

12. 3.0 Inch Screen/Eyepiece

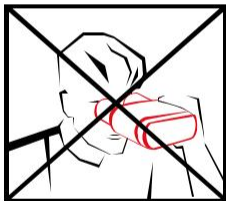
# Use Reminders

## Keep a Certain Distance

To see the image display more clearly, please keep a certain distance between your eyes and the eyepiece/display during use, do not come close.



## Use The Correct Direction



## Power Supply

The night vision binoculars have a built-in 4000mAh lithium battery, which can be used for up to 5 hours in night mode. Equipped with a display USB charging cable, you can directly observe whether the fuselage indicator is fully charged. (When the product is turned on, the indicator light is always blue; the indicator light is red when charging; the indicator light is off when fully charged.)



## Inserting / Removing The SD Card

1. Insert the micro SD card into the micro SD card port and push until it locks in place.
2. To remove the installed micro SD card, please push the card inward and it will come up.

Tip: It is recommended to use a TF card (maximum support 128GB).

## Turn ON/OFF

1. Hold the POWER button for 3-4 seconds to turn on/off the night vision binoculars.

**Noted:** Please turn off the device before charging the device. Because the device will automatically shut down when the power is unplugged, it needs to be turned on again.

# Adjustment Mode

## Adjustment Mode







The night vision binoculars have 3 modes and you can switch between them by pressing the  button.

	Photo Mode	Take photo
	Video Mode	Video recording
	Playback Mode	Play back pictures/video




## Photo Mode





1. The default is video mode after power on, please press the  button to switch to photo mode. The icon will appear in the top left corner of the screen.
2. Press the  button to take a picture.

## Video Mode




1. The default is video mode after power on, if not video mode, please press the  button and select the video mode. The icon will appear in the top right corner of the screen.
2. Press the  button to start recording the video and press the  button again to stop recording.

## Playback Mode

1. Watching Stored Videos and Photos: Press the  button and select playback mode. You may then toggle through your saved photos/videos with the  or  buttons.

2. Deleting Stored Videos and Photos: In playback mode, press the  button. You can use the  or  button to select to delete/lock the image you are viewing from the micro SD card, then press  to delete/lock the image.




## Poor Image


1. If you wear glasses, please wear glasses when using the equipment.
2. If used during the day, make sure that the infrared light is turned off (if the infrared light is turned on, the screen is shown in black and white, and if the infrared light is turned off, the screen is displayed in color).
3. When used at night or in case of insufficient light, make sure that the IR is turned on and press the  button ( the screen is black and white when the IR light is turned on) to adjust the most appropriate brightness according to the actual situation.
4. Adjust the focus by slowly turning the focusing wheel to ensure that the focus has been focused.
5. Long press  or  button to zoom in or zoom out the image, the zoom value will be displayed on the LCD screen.

## IR-LED Night Vision Camera Function

1. IR-LED Night vision Camera function.
2. Regarding manual focusing: the machine lens is marked "←" and "→". According to the observed target distance, please rotate the lens to the left/right. The user can repeatedly debug the best focal length according to the actual observation distance until it is clear on the display screen.



3. There is no sound when the video is played back because the observation distance is long, the sound can not spread over a long distance.
4. On Photo / Video mode, if you need to observe the darker environment, press the  button to turn on the infrared lamp, the image will become black and white, by pressing the  or  button to adjust the infrared light level, a total of 7 level brightness (0>1>2>3>4>5>6>7>0). (When the battery power is not enough, the camera will also automatically reduce the IR level. When the battery is 100%, it can be turned on to 7, when the battery is 50%, it can only turn on 3, when the battery is 20%, it can only turn on 1, and when the battery is less than 10%, it cannot be turned on Infrared light).

**Note:** When using the device at night, please press the  button to turn on the infrared.

## Video :

Resolution	4K/2K/1088P/1080P/720P/VGA/QVGA
Loop recording	OFF/1Minute/3Minutes/5Minutes/10Minutes
WDR	OFF/ON
Motion Detection	OFF/ON
Date Stamp	OFF/ON

## Picture :

Resolution	42MP/36MP/32MP/30MP/24MP/20MP/16MP/ 12MP/10MP/8MP/5MP/3MP/VGA
Image Quality	Fine/Normal/Economy
Sharpness	Strong/Normal/Soft
White Balance	Auto/Daylight/Cloudy/Tungsten/Fluorescent
Anti-Shaking	OFF/ON
Quick Review	OFF/2S/5S
Date Stamp	OFF/Date/Date Time
ISO	Auto/100/200/400/800

# MENU Function

## Settings :

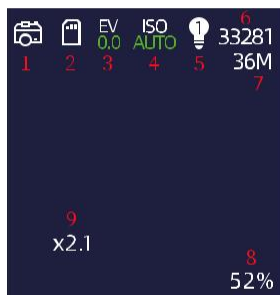
Date/Time	YY/MM/DD 00:00:00
Auto Power Off	OFF/1Minute/2Minutes/3Minutes/5Minutes/ 10Minutes
Language	Simple Chinese/Traditional Chinese/English/ Japan/Italy/France/Germany/Russia/Spain/Portugal
Frequency	50HZ/60HZ
Exposure	+1/3 +0.0 -1/3 -2/3 -1.0 -4/3 -5/3 -2.0
Screen Save	OFF/1Minute/3Minutes/5Minutes/10minutes
Format	TF Card (Delete All Files)
Default Setting	Cancel/OK

## The Screen Display In Video Mode



1. Recording Mode Icon
2. Recording Time
3. Video Resolution
4. TF Card
5. Power Display
6. Recording Date
7. Zoom
8. IR Level
9. EV (Exposure)

## The Screen Display In Photo Mode



1. Photo Mode Icon
2. TF Card
3. EV (Exposure)
4. ISO
5. IR Level
6. Image Storage Capacity
7. Photo Resolution
8. Power Display
9. Zoom

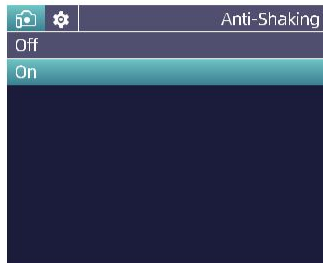
## Picture Anti-Shaking Function



1. Night vision device adjusted to photo mode.



2. Press the  $\text{MENU}$  button, then press the  $\text{P/IR}$  button to select “Anti-Shaking”, press the  $\text{OK}$  button to confirm.

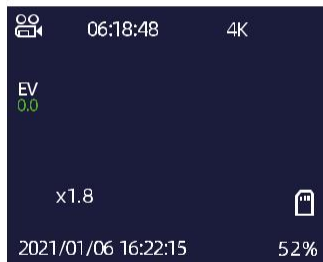


3. Press the  $\text{P/IR}$  or  $\text{IR/P}$  button to select on/off, press the  $\text{OK}$  button to confirm, and then press the  $\text{MENU}$  button to return to the camera interface.






4. When anti-shaking is enabled, the interface displays the anti-shaking icon.

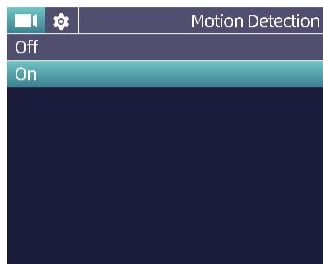
## Video Motion Detection







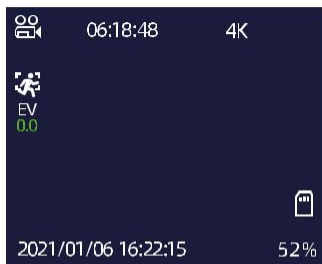
1. Night vision device adjusted to video mode.



2. Press the  button, then press the  button to select "Motion Detection", press the  button to confirm.



3. Press the  or  button to select on/off, press the  button to confirm, and then press the  button to return to the camera interface.



4. When motion detection is enabled, the interface displays the motion detection icon.

# Product Parameters

MENU	Function
Aperture	F 1.2 f=25mm
Lens Angle	FOV=10°, diameter: 25mm
Display Screen	Inner 3.0"inch (800*480)TFT LCD
Digital Zoom	5X
Storage Media	Micro SD card, Max up to 128GB
Viewing Distance in 100% darkness	150-300M
Viewing Distance in Daytime	3M~Infinity
IR LED	3W, 850nm, 7 levels
USB Port	Micro USB 2.0
Power Source	Built-in 4000mAh battery
Operating Temperature	-20°C to +60°C
Storage Temperature	-30°C to +70°C

## Download Files To The PC

### ◆ Use TF card reader

1. Pop up the TF card from the machine and insert the card reader to connect to the computer.
2. Open [my computer] or windows explorer, double-click the removable disk for the memory card.
3. Copy the file from the memory card to the computer.

### ◆ Connect the camera to the computer by USB cable

1. Turn on the night vision. Connect the machine to the computer by USB cable.
2. "Mass Storage" and "PC Camera" will appear on the screen.
3. Please select "Mass Storage".
4. Open [my computer] or windows explorer, double-click the removable disk for the memory card.
5. Copy the file from the memory card to the computer.



## Question & Answer

◆ **Question: What should I do if I can't boot up?**

Answer: Please charge the device first, connect the USB to DC5V or power bank, and then try to turn it on.

◆ **Question: What should I do if the screen display is abnormal?**

Answer: You can shut down first, then restart.

◆ **Question: What should I do if I cannot connect to the computer via a USB cable?**

Answer: Please check whether the USB cable is good, whether the interface is inserted in place, whether the computer USB interface is good, etc.

◆ **Question: What should I do if the camera cannot read the memory card?**

Answer: Please check whether the memory card is inserted into the camera correctly, and the quality of the memory card is good, the maximum is 128GB (it is recommended to format the memory card before using the memory card).

◆ **Question: How to adjust the date?**

Answer: Press "MENU" twice continuously to jump to the date option page. Press IR- again to jump to the date setting option. Select the first setting (date/time) and press the confirm button (photograph button), and then add or subtract the date by adjusting IR+/IR-. When the value is increased to the value you need, you can press the confirm button, and then it will jump directly to the next number.

◆ **Question: How to adjust the date?**

Answer: Press "MENU" twice continuously to jump to the date option page. Press IR- again to jump to the date setting option. Select the first setting (date/time) and press the confirm button (photograph button), and then add or subtract the date by adjusting IR+/IR-. When the value is increased to the value you need, you can press the confirm button, and then it will jump directly to the next number.

◆ **Question: How to turn off the infrared function?**

Answer: Adjust the infrared level by pressing the [IR+] or [IR -] button. When the number on the left side of the screen disappears, the infrared function will be turned off.

◆ **Question: How to zoom in and out?**

Answer: Long press [IR+] to zoom in, long press [IR -] to zoom out.

◆ **Question: The screen turns off automatically after 5 seconds?**

Answer: Please check whether Auto power off is set in the menu. If it is selected, please enter the menu to close this option.

◆ **Question: Is the screen frozen suddenly after startup or during use?**

Answer: Press MENU+MODE at the same time to reset.

## Tips

### ◆ **The device can not be activated.**

Please charge the device first, connect the USB to DC5V or a power bank, and then try to turn it on.

### ◆ **Focusing the image.**

Target the object you would like to view and turn the object-focusing knob until the image on the screen comes sharp and clear.

**Note:** To see the image display more clearly, please keep a certain distance between your eyes and the eyepiece/display during use, do not come close.

### ◆ **Cleaning the machine.**

Before cleaning the machine, disconnect the power and clean the outside of the machine with a dry dustless cloth. To avoid damage to the machine, do not use any cleaning fluid, clean eyepiece and/or lens, just use a cleaning cloth gently wipe the test, protect the lens from scratch. Protect the machine from dust and moisture, and store it in a bag or box.

## About the adapter

The adapter is not included, the user uses the adapter, we recommend using 5V1A to avoid damaging the battery as much as possible.

## Can the binoculars work through windows?

Whether or not the infrared light (IR) is turned ON, the device cannot observe objects through window glass.



**Alkaline batteries need to be installed before use;**

We recommend new alkaline batteries (Eneloop by Panasonic).

\*If the battery power is low, the device might not turn on.

Do not use the binoculars in water as it will damage the device and the damage will not be covered by the warranty.

