NIGHT M-2 Night Vision Monocular

User Manual

Ork Hunter

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1. Product overview

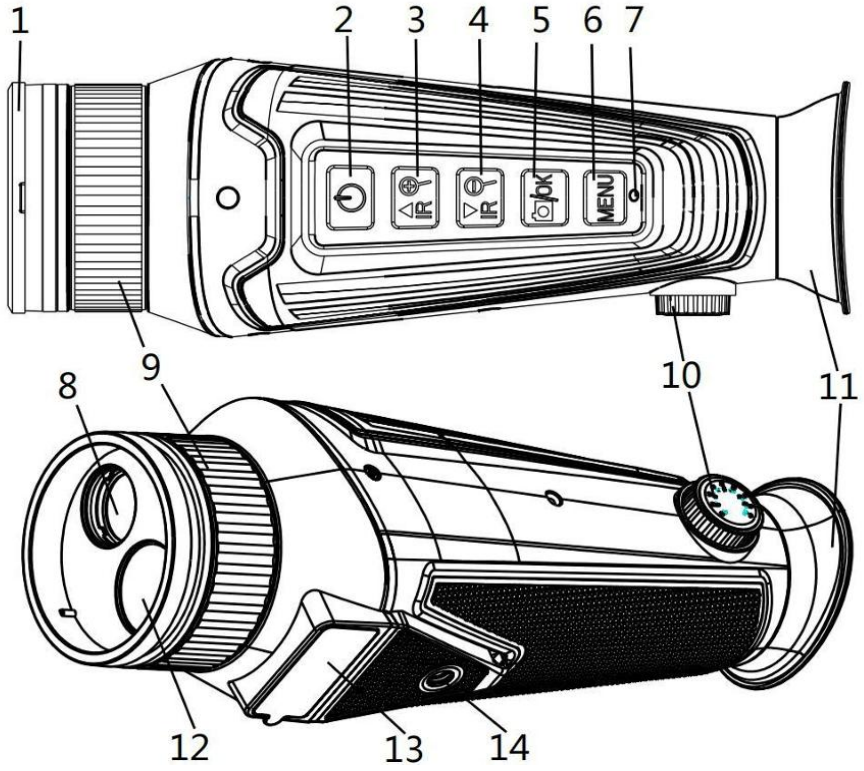


Fig.1. Product overview

1. Lens cover
2. Power Button
3. IR Up/Zoom in/Up Button
4. IR Down/Zoom out/Down Button
5. Shutter/OK button
6. Menu/Mode Button
7. Work indicator (blue)
8. Objective Lens
9. Objective focus wheel
10. Eyepiece diopter adjustment wheel
11. Eyepiece/Display
12. IR Transmitter
13. USB port/reset hole/charging indicator (red)/memory card slot
14. Bracket fixing screw

2. About Charging

The device has a built-in rechargeable battery. Please charge it fully before first use.

Use a universal USB power adapter (DC 5V/2A, not included) to charge the device. While charging, the charging indicator to the left of the Type-C USB port lights red; when charging is complete, the indicator turns off. (If the battery is completely empty, a full charge takes about 6 hours.)

3. Inserting the Memory Card

- Prepare a Class 10 Micro SD card (up to 32 GB) in advance.
- Open the card slot cover to access the card slot.
- Insert the Micro SD card into the slot, making sure it is oriented correctly. Never force the card in.
- Format the Micro SD card to improve battery life, shutter speed and card compatibility.
- To remove the card from the memory card slot, gently press the edge of the card inward; the card will pop out. Then remove the card.

Note: If the Micro SD card is not inserted or is inserted incorrectly, the Micro SD card icon, the number of remaining photos or the available recording time are not shown on the display after power-on. Pressing the Shutter/OK button displays the “No card” prompt.

4. Basic Operation

4.1. Turn ON and turn OFF

Press and hold the Power button for 3 seconds to turn the device on; the blue work indicator lights up.

Press and hold the Power button again for 3 seconds to turn the device off; the blue work indicator goes off.

4.2. Night Vision Enhanced Mode

Night vision enhanced mode is twice as bright as normal night vision mode.

In photo or video mode, select “360P enhanced night vision” under Video Resolution / Photo Resolution in the menu.

Note: In night vision enhanced mode the resolution is VGA, image noise is slightly higher and digital zoom cannot be used.

4.3. New and Special Color Effects

The Luminous Green and Infrared light color effects can be used in both normal mode and infrared night vision mode:

Steps:

Short press the Power button → Luminous Green color effect.

Short press the Power button again → Infrared light color effect.

Short press the Power button again → return to normal color mode.

4.4. Eyepiece and objective adjustment

After turning on the device, press the Menu/Mode button to open the menu. Keep your eye close to the silicone eyecup and check the sharpness of the menu text on the display. Turn the eyepiece diopter adjustment wheel to suit your vision until the menu text is at its sharpest: turn it to the right for short-sightedness and to the left for far-sightedness; for normal vision, the wheel is approximately in the middle position. Press the Menu/Mode button again to exit the menu. Then look at the actual scene and turn the objective focus wheel according to the distance until the image is at its sharpest.

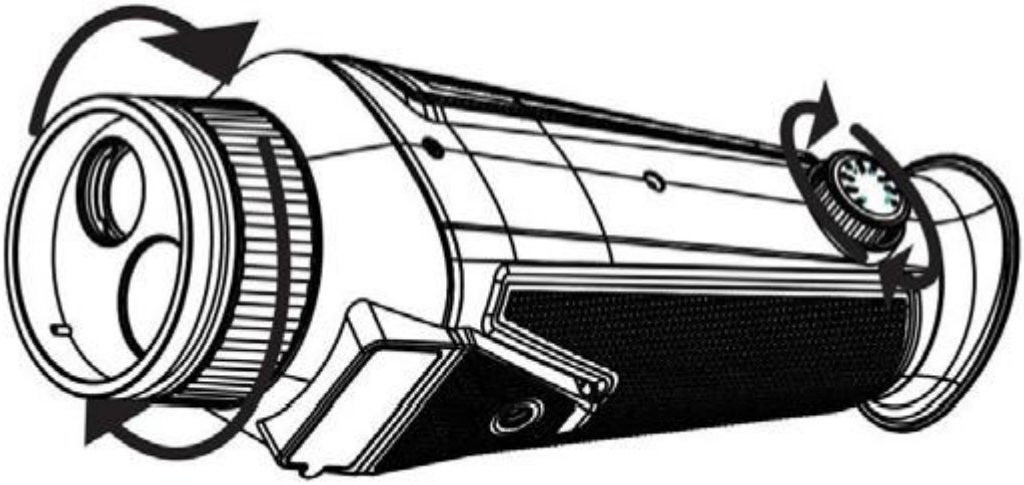


Fig.2. Eyepiece and objective adjustment

If the light is insufficient or at night, press the IR Up/Zoom in/Up button to turn on the infrared light and select the IR level to suit the conditions: the darker the scene, the higher the level.

Note: When the infrared light is on and you need to adjust the objective focus wheel, turn the wheel with your thumb and index finger from the top of the device, as shown in Fig.2. Do not turn it from below: your hand may block the infrared light and reduce the night vision distance and image clarity.

Press and hold the IR Up/Zoom in/Up button to zoom.

4.5. Changing the modes

The night vision device has 3 modes: photo mode, video mode and playback mode. Press and hold the Menu/Mode button to change the mode.

	Photo Mode	For taking still photos.
	Video Mode	For recording video.
	Playback Mode	For playing back recorded files.

4.6. Taking pictures

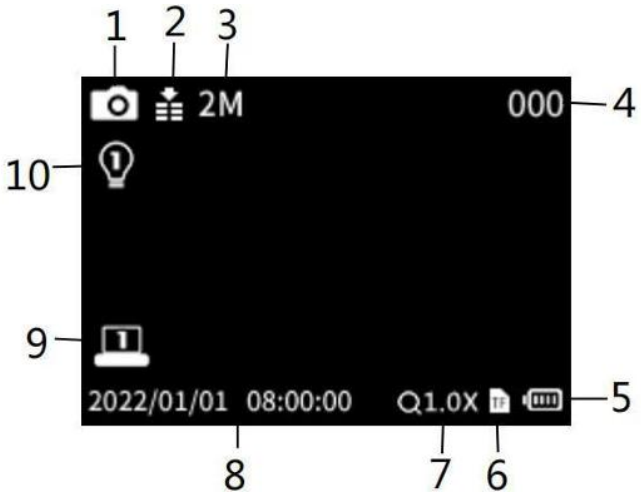


Fig.3. Taking pictures

1. Photo mode
2. Night vision sensitivity
3. Photo resolution
4. Number of photos that can be taken
5. Battery status
6. Micro SD card prompt
7. Digital zoom indication
8. Shooting time stamp
9. Display brightness
10. Infrared light level

- Turn on the device; it starts in Video mode by default. Press and hold the Menu/Mode button to switch to Photo mode.
- Zooming: Press and hold the IR Up/Zoom in/Up button or the IR Down/Zoom out/Down button to zoom in or out. The magnification level is shown on the LCD screen.
- To take a still photo:
  - View your subject on the LCD screen.
  - Adjust the focus by turning the focus wheel.
- At night or in insufficient light, turn on the IR by pressing the IR Up/Zoom in/Up button. Press the button repeatedly to increase the IR brightness; there are 7 levels. Adjust the level to suit the conditions: the darker the scene, the higher the level. Press the Shutter/OK button to take a photo.

4.7. Recording Video

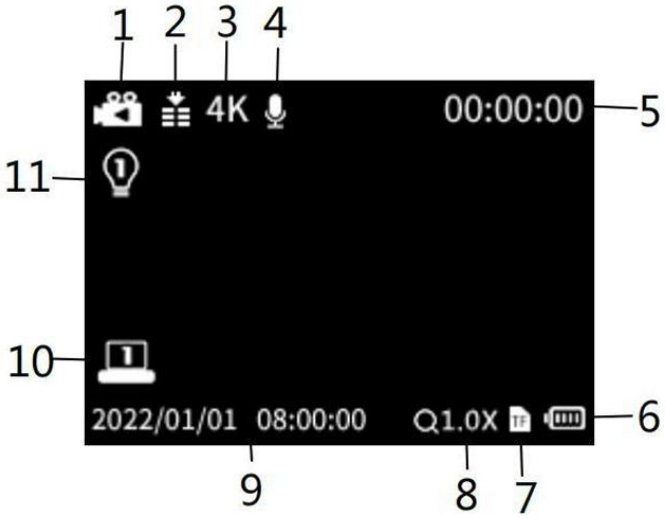


Fig.4. Recording video

1. Video mode
2. Night vision sensitivity
3. Video resolution
4. Recording switch indication
5. Available video recording time
6. Battery status
7. Micro SD card prompt
8. Digital zoom indication
9. Shooting time stamp
10. Display brightness
11. Infrared light brightness level

- Turn on the device; it starts in Video mode by default. If it does not, press and hold the Menu/Mode button to switch to Video mode.
- Zooming: Press and hold the IR Up/Zoom in/Up button or the IR Down/Zoom out/Down button to zoom in or out. The magnification level is shown on the LCD screen.
- To record video:
  - View your subject on the LCD screen.
  - Adjust the focus by turning the focus wheel.
- At night or in insufficient light, turn on the IR by pressing the IR Up/Zoom in/Up button. Press the button repeatedly to increase the IR brightness; there are 7 levels. Adjust the level to suit the conditions: the darker the scene, the higher the level.
  - Press the Shutter/OK button to start recording. The recording duration is shown on the LCD screen.
- To stop recording:
  - Press the Shutter/OK button again to stop recording.
  - The device stops recording automatically when the memory card is full.

4.8. Device cannot be turned on or off

1. If the device is fully charged but cannot be turned on, or the screen freezes during use and the device cannot be turned off, insert a thin, rigid object such as a toothpick or a wire into the RST hole. When you feel resistance, press it, then turn the device on.

2. Use a universal USB power adapter (DC 5V/2A, not included) to charge the device. After the Type-C USB cable is connected, the charging indicator lights red. If the device can be turned on only while the cable is connected and turns off when the cable is unplugged, the built-in battery is empty and must be fully charged.

4.9. Poor image

- If you wear glasses, remove them when using the device.
- In daylight, make sure the IR is off (with the IR on, the screen is black and white).
- At night, make sure the IR is on: press the IR Up button (with the IR on, the screen is black and white).
- Adjust the focus by slowly turning the focus wheel until the image is sharp.

4.10. IR LED (night vision function)

1. Manual focusing: turn the objective focus wheel according to the observation distance until the image is sharp.

2. In photo or video mode, to observe in dark conditions, press the IR Up button to turn on the infrared light; the image turns black and white. The infrared light has 7 levels: press the IR Up button to increase the level and the IR Down button to decrease it.

Note: When the battery is low, the maximum IR level is reduced automatically: fully charged – up to level 7; half charge – up to level 5; 1 battery bar – up to level 3; below 1 battery bar – the infrared light cannot be turned on.

4.11. Settings in photo and video mode

In photo or video mode, short press the Menu/Mode button to open the menu and change the settings.

Menu	Function
Video Resolution	Set the video resolution. Options: 360P enhanced night vision / HD / FHD / 4K
Photo Resolution	Set the photo resolution. Options: 360P enhanced night vision / 1M / 2M / 3M / 5M / 8M / 12M / 36M
Night Vision Sensitivity	Select night vision sensitivity. Options: [Low] / [Middle] / [High]
Screen Brightness	Adjust the screen brightness as required. Options: [Level 1] / [Level 2] / [Level 3] / [Level 4] / [Level 5] / [Level 6] / [Level 7]
Display Mode	Select the display format as required. Options: [Full] – full screen (the image on the screen is slightly stretched; captured photos and videos are not affected) / [Normal] – 16:9 display
Video Frame Rate	Set the frame rate to suit the scene. The lower the frame rate, the brighter the night vision image, but the choppier the video during movement. Options: Auto / 5 FPS / 10 FPS / 15 FPS / 20 FPS / 25 FPS / 30 FPS
Audio	On/Off.
Date Stamp	On/Off.
Time Setting	Set the date and time. Press the Up or Down button to adjust the value, press the Shutter/OK button to move the cursor between fields, then select “Yes” and press the Shutter/OK button to finish.
Auto power-off	Set the idle time after which the device powers off automatically to save power. Options: [Off] / [1 min] / [3 min] / [5 min] / [10 min]

Language Setting	Set the on-screen display (OSD) language. Options: [English] / [Русский] / [Français] / [Deutsch] / [Italiano] / [Español] / [Português] / [Nederlands] / [Čeština] / [Polski] / [Türkçe]
Power Frequency	Set the power line frequency to match the local mains supply to prevent flicker. Options: [50 Hz] / [60 Hz]
Date Label	Add the date stamp to photo and video files. Options: [Yes] / [No]
Format	Format the Micro SD card. Formatting deletes all files, including protected files. Copy any important files before confirming. Options: [Yes] / [No]
Restore System	Restore the factory default settings. Options: [Yes] / [No]
Version	View the firmware version.

4.12. Playback

- Turn on the device and press the Menu/Mode button to switch to playback mode.
- Press the Up/Down button to browse photos and video files.
- Playing back video
    - Press the Shutter/OK button to start playing the selected video.
    - Press the Shutter/OK button again to pause.
    - Press the Menu/Mode button to stop playback.

In playback mode, press the Menu/Mode button to display the playback menu. Press the Up/Down button to select an option (lock, unlock or delete), then press the Shutter/OK button to enter the sub-menu.

Playback menu list:

Menu	Function
Delete	Delete the current file on the memory card. Options: [Yes] / [No]
Delete All	Delete all files on the memory card. Options: [Yes] / [No]
Lock This	Lock the current file on the memory card. Options: [Yes] / [No]
Unlock This	Unlock the current file on the memory card. Options: [Yes] / [No]
Lock All	Lock all files on the memory card. Options: [Yes] / [No]
Unlock All	Unlock all files on the memory card. Options: [Yes] / [No]

5. Using a tripod

The device can be mounted on any standard tripod (not included, purchased separately).

6. Download files to PC

There are two ways to transfer files from the device to a computer:

1. Insert the memory card into a card reader.

2. Connect the device to a computer with the supplied Type-C USB cable.

7. Using a card reader

1. Remove the memory card from the device and insert it into a card reader, then connect the card reader to a computer.

2. Open [My Computer] or [Windows Explorer] and double-click the removable disk icon that represents the memory card.

3. Copy the files from the card to a folder of your choice on the computer's hard disk.

8. Connecting the device to a PC through the USB cable

1. Turn on the device and connect it to a computer with the supplied Type-C USB cable.

2. Select “Memory” on the device screen and press the Shutter/OK button to enter removable disk mode.

3. Open [My Computer] or [Windows Explorer]. A “Removable Disk” appears in the drive list. Double-click the “Removable Disk” icon to view its contents. Files stored on the device are located in the “DCIM” folder.

4. Copy the photos or files to your computer.

9. Notes on cleaning

Before cleaning the device, disconnect it from the power supply. Clean the exterior only with a dry cloth. To avoid damaging the electronics, do not use any cleaning fluid. Clean the eyepiece and lenses only with a soft, lint-free cloth (e.g. a microfiber cloth), applying only gentle pressure to avoid scratching the lenses. Protect the device from dust and moisture, and store it in a bag or box.

10. Helpful tips

1. The lens of this night vision device has a narrow angle of view and is mainly suitable for observing distant objects.

2. This product is a monocular night vision device. For the best viewing result, keep your eye close to the eyepiece while using it; closing the other eye is recommended.

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