NIGHT B-7 Night Vision Binoculars

User Manual

Ork Hunter

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1. Product overview

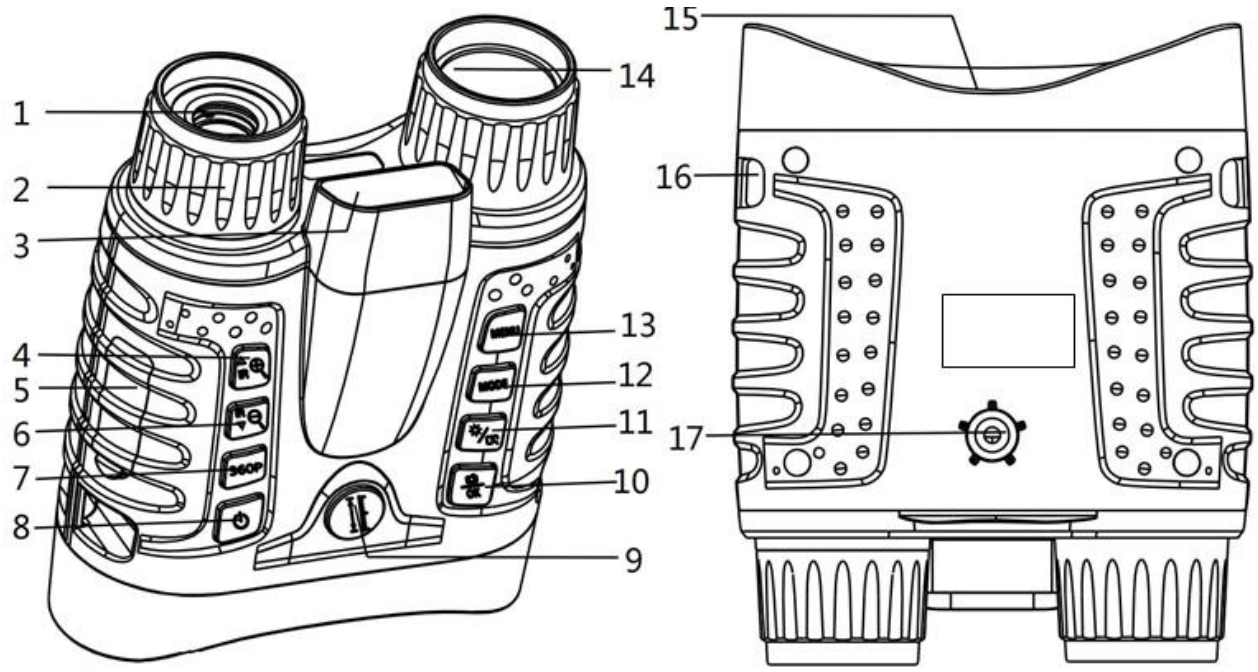


Fig.1. Product overview

1. Objective Lens
2. Objective focus wheel
3. Ranging module
4. IR Up/Zoom in/Up Button
5. USB port/charging indicator/reset hole/memory card slot cover
6. IR Down/Zoom out/Down Button
7. 360P night vision enhancement
8. Power Button
9. Ranging button
10. Shutter/OK button
11. Color Effect / Screen Brightness Adjustment Button
12. Mode Button
13. Menu Button
14. IR Transmitter
15. Eyepiece/Display
16. Strap Hole
17. Tripod 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 4 hours.)

3. Inserting the Memory Card

- Prepare a Class 10 Micro SD card (up to 256 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.

Note: If the Micro SD card is not inserted or is inserted incorrectly, the device shows the prompt “NO CARD” after power-on, and a card icon with an X appears in the lower right corner. The number of remaining photos or the available recording time at the top right shows 0. Pressing the Shutter/OK button displays the “NO CARD” prompt again.

4. Basic Operation

4.1. Turn ON and turn OFF

Press and hold the Power button for 3 seconds to turn the device on. Press and hold it again for 3 seconds to turn it 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 color effect function can be used in normal color mode and in black-and-white infrared night vision mode:

Steps:

Press and hold the “Color Effect / Screen Brightness Adjustment” button → Luminous Green color effect.

Press and hold the “Color Effect / Screen Brightness Adjustment” button again → Infrared light color effect.

Press and hold the “Color Effect / Screen Brightness Adjustment” button again → return to normal color mode.

4.4. Adjust the display

The screen brightness is adjustable and has 7 levels. Press and hold the 360P night vision enhancement / Screen brightness adjustment shortcut button to switch quickly between brightness levels. You can also press the Menu button to open the menu and select “Screen Brightness” to set the level.

4.5. Distance measurement

This device has a ranging function. In photo or video mode, short press the Ranging button to enter ranging mode. Align the center of the cross-shaped ranging icon on the screen with the target; the distance is displayed on the screen and updated in real time. Press the Ranging button again to exit ranging mode.

Note:

1. In black-and-white mode, a flashing light spot on the screen while ranging is enabled is normal.

2. Do not look directly at the laser beam when using the ranging function.

3. Do not touch the optical lenses. If they are dirty, gently wipe them with a lens cloth or alcohol.

4. For accurate measurement, the target should have medium reflectivity (such as a light-colored wall), with its reflective surface perpendicular or nearly perpendicular to the laser beam, and there should be no rain, snow, smog or direct sunlight.

4.6. 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.

4.7. Taking pictures

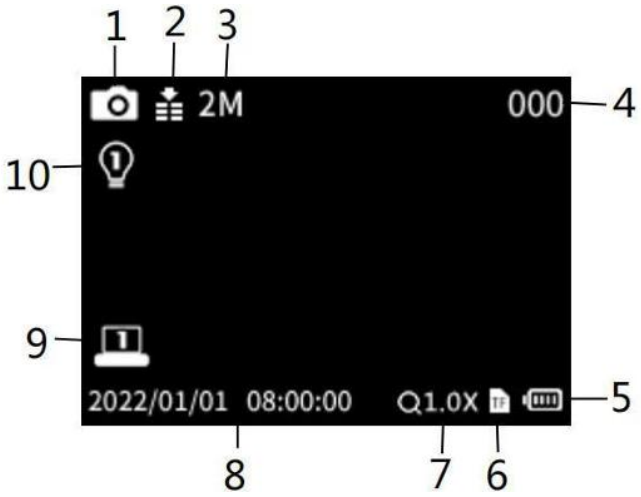


Fig.2. Taking pictures

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/white 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.

4.8. Recording Video

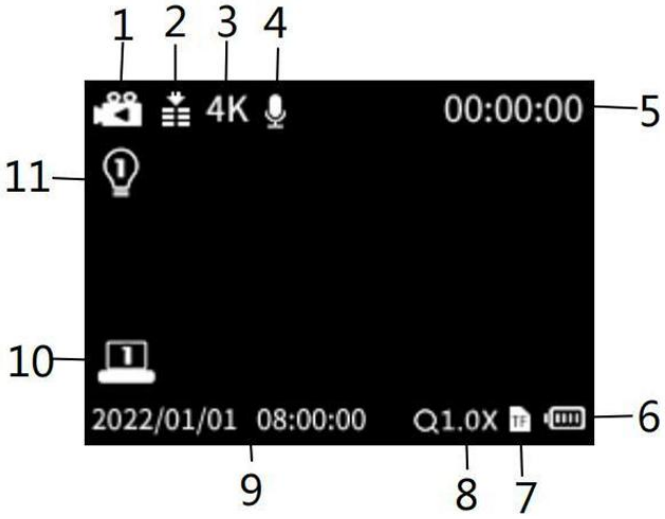


Fig.3. Recording video

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.

4.9. 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.

4.10. Poor image

- 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.

4.11. 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] / [Mid] / [High]
Screen Brightness	Adjust the screen brightness as required. Options: [Level 1] / [Level 2] / [Level 3] / [Level 4] / [Level 5] / [Level 6] / [Level 7]
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
Ranging Icon	Select the ranging icon style as required. Options: [Off] / [Icon 1] / [Icon 2] / [Icon 3] / [Icon 4] / [Icon 5] / [Icon 6] / [Icon 7] / [Icon 8]
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 OK button to move the cursor between fields, then select “Confirm” and press the 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]
Format	Format the Micro SD card. Formatting deletes all files, including protected files. Copy any important files before confirming. Options: [Confirm] / [Cancel]
Restore System	Restore the factory default settings. Options: [Confirm] / [Cancel]
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: [Confirm] / [Cancel]
Delete All	Delete all files on the memory card. Options: [Confirm] / [Cancel]
Lock This	Lock the current file on the memory card. Options: [Confirm] / [Cancel]
Unlock This	Unlock the current file on the memory card. Options: [Confirm] / [Cancel]
Lock All	Lock all files on the memory card. Options: [Confirm] / [Cancel]
Unlock All	Unlock all files on the memory card. Options: [Confirm] / [Cancel]

5. 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.

6. 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.

7. 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 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.

8. 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.

9. 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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