NIGHT HB-5 Night Vision Binoculars

User Manual

Ork Hunter

2026

Content

1. **Product overview** 4
2. **About Charging** 5
3. **Inserting the Memory Cards** 5
4. **Basic Operation** 6
   4.1. Turn ON and turn OFF 6
   4.2. Distance screen saver 6
   4.3. Night Vision Enhanced Mode 6
   4.4. Eyepiece adjustment 6
   4.5. Lens focus adjustment 7
   4.6. Changing the modes 7
   4.7. Taking pictures 8
   4.8. Recording Video 9
   4.9. Device cannot be turned on or off 10
   4.10. Poor image 10
   4.11. IR LED (night vision function) 10
   4.12. Applying color effects 10
   4.13. Settings in photo and video mode 12
   4.14. Playback 14
5. **Strap installation** 15
6. **Download files to PC** 17
7. **Using a card reader** 17
8. **Connecting the device to a PC through the USB cable** 17
9. **Creating 3D photos and videos** 18
   9.1. Photo synthesis 18
   9.2. Video synthesis 19
   9.3. Viewing 3D files 19

10. **Notes on cleaning**.....21

11. **Helpful tips** 21

Contacts: 22

1. Product overview

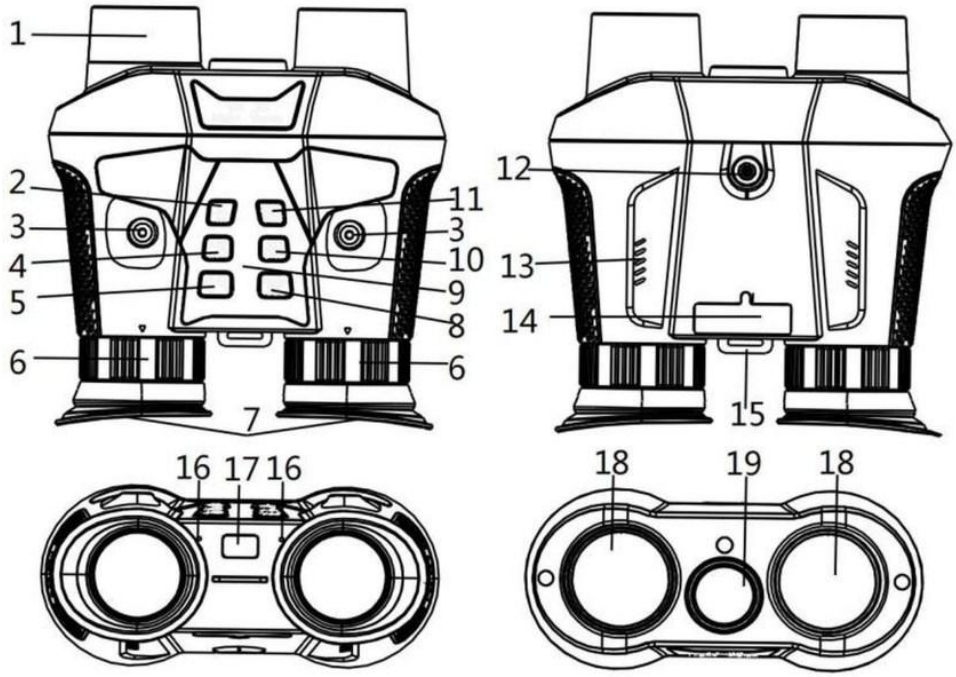

Fig.1. Product overview

1. Lens focus wheel
2. Power/Mode button
3. Helmet bracket fixing screw
4. Up/IR Up/Zoom in button
5. Down/IR Down/Zoom out button
6. Eyepiece diopter adjustment wheel
7. Eyepiece/Display
8. OK/Shutter/Delete button
9. Power indicator light
10. 360P night vision enhancement/Clear screen button
11. Menu/Sync button
12. Bracket fixing screw
13. Speaker
14. USB port/charging indicator/reset hole (RST)/Micro SD card slots cover
15. Strap hole
16. Microphone hole
17. Screen saver distance sensor
18. Lens
19. IR LED

2. About Charging

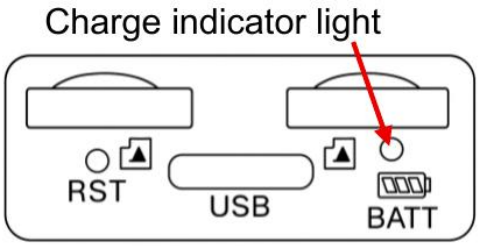

Fig.2. Charging indicator

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 blue. (If the battery is completely empty, a full charge takes about 4 hours.)

3. Inserting the Memory Cards

- Prepare two identical Micro SD cards in advance (branded cards of Class 10 or higher are recommended); otherwise the images on the left and right displays may not be synchronized.
- Open the card slot cover to access the card slots.
- Insert the two Micro SD cards into the card slots, making sure they are oriented correctly. Never force a card in.
- Format the Micro SD cards to improve card compatibility.
- To remove a card from its slot, gently press the edge of the card inward; the card will pop out. Then remove the card.

> ***Note:*** If a Micro SD card is not inserted, is inserted incorrectly, or only one card is inserted, 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 OK/Shutter/Delete button displays the “No Card” prompt.

4. Basic Operation

4.1. Turn ON and turn OFF

Press and hold the Power/Mode button for 3 seconds to turn the device on. Press and hold it again for 3 seconds to turn it off.

4.2. Distance screen saver

When you move away from the screen saver distance sensor or the eyepieces, the display turns off automatically to save power, and turns on again when you bring your eyes close to the eyepieces.

If you do not need this function, or when using the device outdoors in strong sunlight, turn it off in the menu (Screen Saver).

4.3. Night Vision Enhanced Mode

Night vision enhanced mode is twice as bright as normal night vision mode. In photo or video mode, short press the 360P night vision enhancement/Clear screen button to switch quickly to night vision enhanced mode.

You can also select “360P ENV” under Video Resolution / Photo Resolution in the menu.

Note: In night vision enhanced mode (360P ENV) the resolution is VGA, image noise is slightly higher and digital zoom cannot be used.

4.4. Eyepiece adjustment

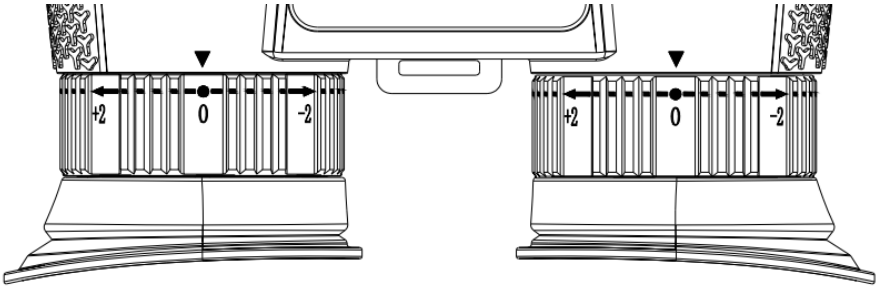

Fig.3. Eyepiece diopter adjustment

After turning on the device, press the Menu/Sync button to open the menu. If the menu text is not sharp, close one eye at a time and turn the diopter adjustment wheel of the left and right eyepiece separately: with normal vision, set the scale to “0”; if you are short-sighted, turn it towards “–”; if you are far-sighted, turn it towards “+”, until the menu text is at its sharpest. Press the Menu/Sync button again to exit the menu.

Then look at the actual scene. If you see two images, look at a more distant scene for a while until the left and right images merge completely.

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

4.5. Lens focus adjustment

After adjusting the eyepieces, slowly turn the lens focus wheel to the left or right according to the viewing distance. Repeat the adjustment until the image on the display is at its sharpest.

4.6. Changing the modes

The device has 3 modes: photo mode, video mode and playback mode. Press the Power/Mode button to switch between the modes.

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

4.7. Taking pictures

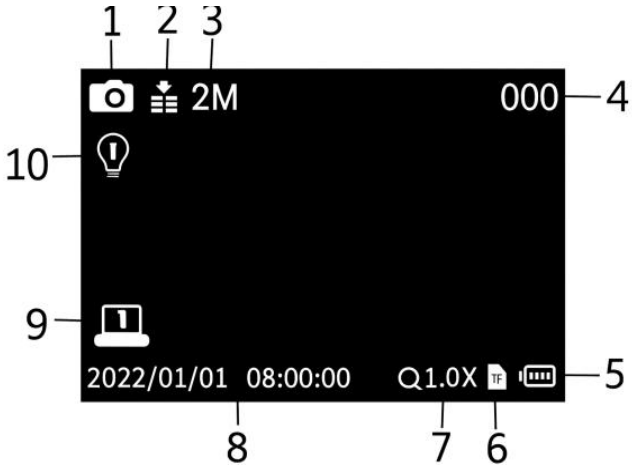

Fig.4. Taking pictures

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 indicator
8. Shooting time stamp
9. Display brightness
10. Infrared light level

- Turn on the device; it starts in Video mode by default. Press the Power/Mode button to switch to Photo mode.
- Zooming: Press and hold the Up/IR Up/Zoom in button or the Down/IR Down/Zoom out button to zoom in or out. The magnification level is shown on the display.
- At night or in low light, short press the Up/IR Up/Zoom in button to turn on the infrared light. Press it repeatedly to increase the level; there are 7 levels (0 > 1 > … > 7 > 0). Short press the Down/IR Down/Zoom out button to decrease the level. The darker the scene, the higher the level.
- Press the OK/Shutter/Delete button to take a photo.

4.8. Recording Video

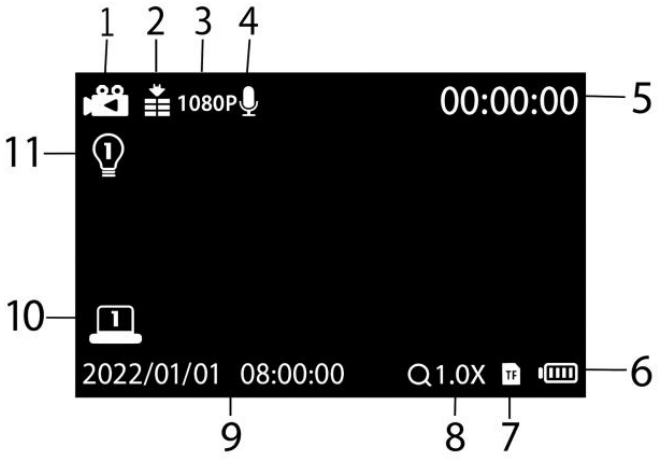

Fig.5. Recording video

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 level

- Turn on the device; it starts in Video mode by default. If it does not, press the Power/Mode button to switch to Video mode.
- Zooming: Press and hold the Up/IR Up/Zoom in button or the Down/IR Down/Zoom out button to zoom in or out. The magnification level is shown on the display.
- To record video:
  - View your subject on the display.
  - At night or in low light, short press the Up/IR Up/Zoom in button to turn on the infrared light and press it repeatedly to increase the level (7 levels); short press the Down/IR Down/Zoom out button to decrease it. The darker the scene, the higher the level.
  - Press the OK/Shutter/Delete button to start recording. The recording duration is shown on the display. Avoid shaking the device and moving too fast, so as not to impair the 3D effect.
- To stop recording:
  - Press the OK/Shutter/Delete 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 (Fig.6). When you feel resistance, press it, then turn the device on.

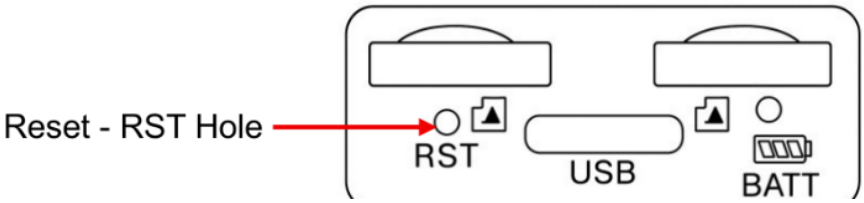

Fig.6. RST hole

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: charge it fully or use an external power bank.

4.10. Poor image

- If you use the device with a helmet or helmet strap, take off your glasses; without a helmet, you can keep your glasses on.
- Slowly turn the left and right eyepiece diopter wheels until the image is sharp.
- In daylight, make sure the infrared light is off (with the infrared light on, the screen is black and white; with it off, the image is in color).
- At night or in low light, make sure the infrared light is on: press the Up/IR Up/Zoom in button (with the infrared light on, the screen is black and white) and adjust the brightness to suit the conditions.

4.11. IR LED (night vision function)

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

Note: When the battery voltage is low, the IR LED level is reduced automatically: fully charged – up to level 7; 50% charge – up to level 5; 25% charge – up to level 3; below 25% – the IR LED cannot be turned on.

4.12. Applying color effects

1. Select normal or night vision viewing mode.

2. Press the Menu/Sync button.

3. Use the Down/IR Down/Zoom out button to go to the Color Effects menu item.
4. Press the OK/Shutter/Delete button to open it.
5. Use the Up/IR Up/Zoom in or Down/IR Down/Zoom out button to select the color effect.
6. Press the OK/Shutter/Delete button to confirm.
7. Press the Menu/Sync button to exit the menu; the effect is applied to the image.

4.13. Settings in photo and video mode

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

Menu	Function
Video Resolution	Set the video resolution. Options: 360P ENV / HD / FHD / 1080P
Photo Resolution	Set the photo resolution. Options: 360P ENV / 1M / 2M / 3M / 5M / 8M / 12M / 36M
Night Vision Sensitivity	Select night vision sensitivity. Options: [Low] / [Mid] / [High]
Color Effects	Apply a color effect to the image. Options: [Color] / [Luminous Green] / [Infrared Light] / [Black & White]
Screen Brightness	Adjust the screen brightness as required. Options: [Level 1] / [Level 2] / [Level 3] / [Level 4] / [Level 5] / [Level 6] / [Level 7]
Screen Saver	Turn the distance screen saver on or off. Options: [On] / [Off]
Power Light	Turn the power indicator light on or off. Options: [On] / [Off]
Video Frame Rate	Set the frame rate to suit the scene. The lower the frame rate, the brighter the night vision image, but the less smooth the video when moving. Options: Auto / 5 FPS / 10 FPS / 15 FPS / 20 FPS / 25 FPS / 30 FPS
Audio	On/Off.
Date Stamp	On/Off.
Beep Sound	On/Off.

Time Setting	Set the date and time. Press the Up or Down button to adjust the value, press the Power/Mode button to move the cursor between fields, then press the OK/Shutter/Delete 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] / [Russian] / [French] / [German] / [Italian] / [Spanish] / [Portuguese] / [Dutch] / [Czech] / [Polish] / [Turkish]
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 cards. Formatting deletes all files, including locked files. Copy any important files to a computer before formatting. Options: [Confirm] / [Cancel]
Reset System	Restore the factory default settings. Options: [Confirm] / [Cancel]
Version	View the firmware version.

4.14. Playback

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

In playback mode, press the Menu/Sync button to display the playback menu. Press the Up/Down button to select lock or delete, then press the OK/Shutter/Delete button to enter the sub-menu. Press the Menu/Sync button to return to the previous 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]
Unlock All	Unlock all files on the memory card. Options: [Confirm] / [Cancel]

5. Strap installation

1. Pull one end of the strap webbing out of the buckle (Fig.7).



Fig.7. Strap parts

2. Thread the webbing with the buckle and the square buckle through the strap hole of the device (Fig.8).



Fig.8. Threading the webbing

3. Slightly loosen the webbing in the buckle (Fig.9).



Fig.9. Loosening the webbing

4. Insert the end of the webbing into one hole of the buckle and pull it out through the other hole (Fig.10).



Fig.10. Threading through the buckle

5. Straighten the webbing and insert its end into the square buckle (Fig.11).



Fig.11. Fixing the end in the square buckle

6. Download files to PC

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

1. Insert the memory cards 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 left and right Micro SD cards from the device and insert them into a card reader, then connect the card reader to a computer.

2. Open [My Computer] or [Windows Explorer] and find the removable disks that represent the memory cards.

3. Copy the files from the left and right memory cards to a folder of your choice on the computer, then merge them into 3D photos and videos with the synthesis tool (see section 9).

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. When the USB icon appears on the device screen, the device enters removable disk mode automatically.

3. Open [My Computer] or [Windows Explorer]. Two removable disks appear: one for the left and one for the right Micro SD card.

4. Copy the files from both memory cards to a folder of your choice on the computer, then merge them into 3D photos and videos with the synthesis tool (see section 9).

9. Creating 3D photos and videos

9.1. Photo synthesis

1. Connect the device to a computer with the Type-C USB cable. Two removable disks appear on the computer.

2. Open the TOOL folder on the memory card and use the download link (WINTOOLS or MACTOOLS) to download the Image Video Synthesis Tools to the computer (Fig.12). Unzip the downloaded file.

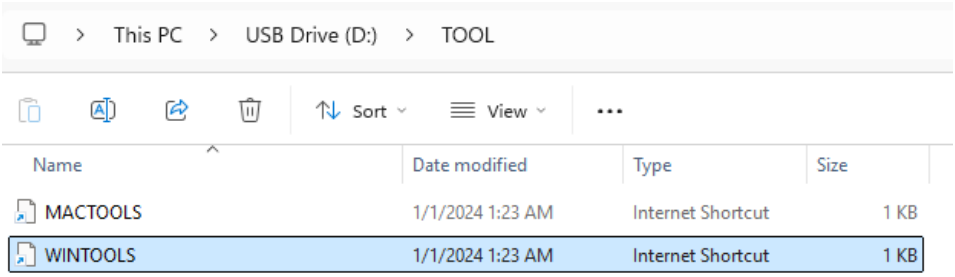

Fig.12. TOOL folder

3. Open the Image Video Synthesis Tools on the computer (Fig.13):

- ① Click “Image”.
- ② Click “Left image” and select the photo in the PHOTOL folder.
- ③ Click “Right image” and select the photo in the PHOTOR folder.
- ④ Click “Merge” and select the storage path. The left and right images are merged into a 3D photo.

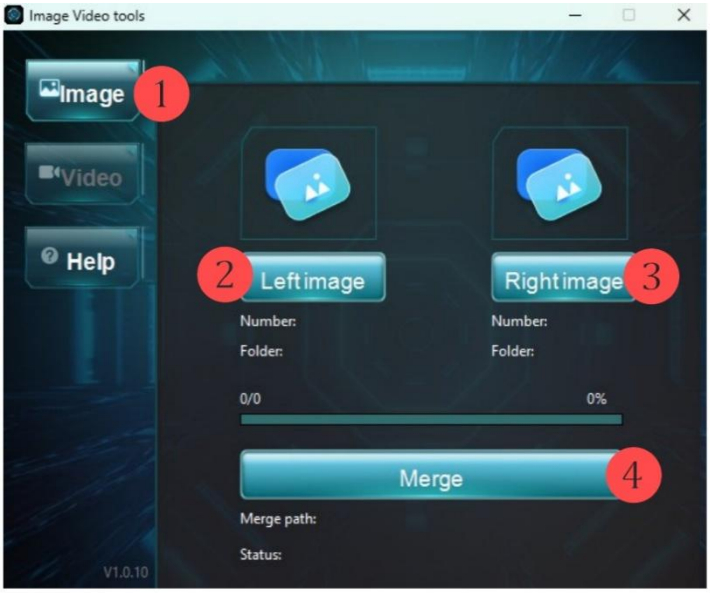

Fig.13. Photo synthesis

9.2. Video synthesis

In the Image Video Synthesis Tools (Fig.14):

- ① Click “Video”.
- ② Click “Left video” and select the video in the VIDEOL folder.
- ③ Click “Right video” and select the video in the VIDEOR folder.
- ④ Click “Merge” and select the storage path. The left and right videos are merged into a 3D video.

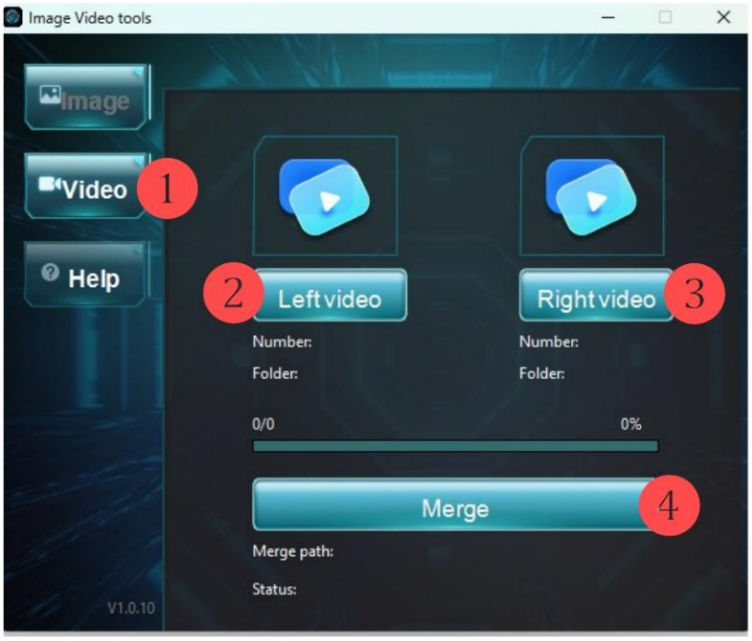

Fig.14. Video synthesis

9.3. Viewing 3D files

Open the folder with the merged files on the computer. The 3D photos and videos can be viewed on the following devices:

- Professional 3D display: select “Left and Right Format” on a polarized 3D display and watch with polarized 3D glasses (the best viewing distance is 2–3 m).
- Ordinary display: in a video player with 3D support (e.g. VLC), open the 3D video, enable the 3D mode, set “Left and Right format” and “Red and blue dual color”, and watch with red-blue 3D glasses (Fig.15).



Fig.15. Red-blue 3D glasses

- VR headset: copy the 3D photos and videos to a mobile phone and insert the phone into a VR headset for viewing (Fig.16).



Fig.16. VR headset

Note: The synthesis tool is compatible with Windows 7 64-bit or later and with macOS Monterey 12.7.4 or later on Mac computers from 2015 onwards. Naked-eye 3D displays have no common standard, so the 3D files may not display well on them.

10. 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.

11. Helpful tips

1. Do not walk while watching through the device mounted on a helmet, to avoid falling. When walking, flip the device up to the helmet mount.

2. If the menu is shown on the left display but the right display is not synchronized, press and hold the Menu/Sync button to synchronize them.

3. When shooting, avoid shaking the device and moving too fast, so as not to impair the 3D playback or cause dizziness and discomfort when viewing 3D images.

4. The device has a narrow angle of view; for the best 3D effect, observe or shoot scenes at a distance of about 10 m.

5. In strong sunlight the distance screen saver may not work properly; turn it off in the menu.

Contacts:

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