

Handheld Thermal Multi-function Binocular Camera

User Manual

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Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the

equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation

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This product and, if applicable, the supplied accessories are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Radio Equipment Directive 2014/53/EU, the

EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to

indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Symbol Convention

The symbols that may be found in this document are defined as follows.

Symbol	Description	
Provides additional information to emphasize or supplement important points of the main text.		
A WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.	
Indicates a hazard with a high level of risk, which if avoided, will result in death or serious injury.		

Safety Instructions

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

Laws and Regulations

 Use of the product must be in strict compliance with the local electrical safety regulations.

Transportation and Storage

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure
 occurred, you need to return the device to the factory with the original wrapper.
 Transportation without the original wrapper may result in damage on the device
 and the company shall not take any responsibilities.
- Do not drop the product or subject it to physical shock. Keep the device away from magnetic interference.

Power Supply

- Please use the power adapter, which is provided by normal company. Input voltage should meet the Limited Power Source (5 VDC, 2A) according to the IEC61010-1 standard. Please refer to technical specifications for detailed information.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.

Battery

 Improper use or replacement of the battery may result in explosion hazard. Replace with the same or equivalent type only. The battery type is 18650, and the rated

- voltage and capacity is 3.6 VDC/3.3 Ah (11.88Wh). Dispose of used batteries in conformance with the instructions provided by the battery manufacturer.
- Do not charge other battery types with the supplied charger. Confirm there is no flammable material within 2 m of the charger during charging.
- For long-term storage of the battery, make sure it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.
- DO NOT place the battery near heating or fire source. Avoid direct sunlight.
- DO NOT swallow the battery to avoid chemical burns.
- DO NOT place the battery in the reach of children.

Maintenance

- Clean the lens with soft and dry cloth or wiping paper to avoid scratching it.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.

Using Environment

- DO NOT expose the device to extremely hot, cold, dusty, corrosive, saline-alkali, or damp environments. Make sure the running environment meets the requirement of the device. The operating temperature shall be -30 °C to 60 °C (-22 °F to 140 °F), and the operating humidity shall be 95% or less.
- This device can only be safely used in the region below 2000 meters above the sea level.
- Avoid equipment installation on vibratory surface or places subject to shock (neglect may cause equipment damage).
- Do not aim the lens at the sun or any other bright light.

Emergency

• If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Laser

 When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.



The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the light supplement function, make sure no human or inflammable substances are in front of the laser lens.

Do not place the device where minors can fetch it.

Manufacture Address

No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China Hangzhou Hikvision Digital Technology Co.,Ltd.

User Manual of Electronic Version

Scan the QR code to view the user manual on your mobile phone. Note that mobile data charges may apply if Wi-Fi is unavailable.



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1 Overview

1.1 Device Description

The handheld thermal binocular (binocular for short) is a pair of binoculars with both thermal observation function and target searching function. The device can quickly discover and accurately locate targets on the ground, at sea and in the river even under extreme environment, such as smoke, fog, rain and snow. It can be applied to various scenarios, such as patrol, law enforcement, search and rescue, drug enforcement, anti-smuggling and suspect capture.

1.2 Function

Distance Detection

Device can detect the target distance with the cursor or the built-in laser-distance detection module.

GPS

Device can locate the target position and can be located with GPS system.

DMC

The DMC (Digital Magnetic Compass) module can detect the azimuth angle and elevation angle of the target and show the direction information on the screen.

Fusion

Device can display the fusion of thermal view and optical view.

Palette

Device supports multiple palettes, and you can set the palette mode according to the scene.

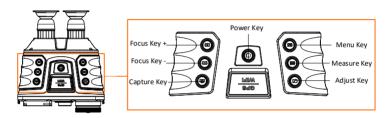
Software Connection

You can capture snapshots, record videos, and set parameters of the device via the client software.

1.3 Appearance

1.3.1Button

The main keys of the binocular are shown below.



For the descriptions of the menu buttons, see the table below.

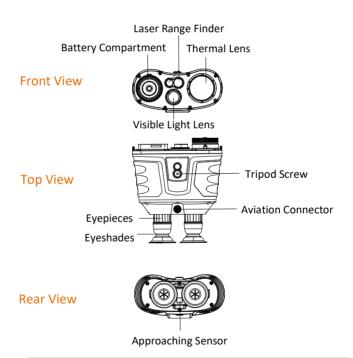
Button	Function	
Power Key	Press the key to emphasize the high-temperature target in the view in fusion mode. Hold the key to power on/off the device.	
Menu Key Press the key to switch the pallets. Hold the key to enter the menu.		
Measure Key	Press the key to switch between White Hot mode and Black Hot mode. Hold the key to detect the target distance with the cursor or laser.	
Adjust Key	Press the key to adjust the digit zoom. Hold the key to correct nonuniformity of display.	
Capture Key	Press the key to capture the view. Hold the key to start/stop recording.	

Focus Key +	Press the key to forward focus step by step. Hold the key to forward focus quickly.	
Focus Key -	Press the key to reverse focus step by step. Hold the key to reverse focus quickly.	

☐i NOTE

The laser function only supported by certain camera models.

1.3.2 Interface



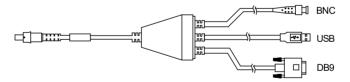
Interface	Function
Eyeshades	Cover the eyes.

Eyepieces	View the target.
Visible Light Lens	Let the visible light in.
Laser Range Finder	Including a laser transmitter and a laser receiver.
Thermal Lens	Let the infrared light in.
Battery Compartment	The battery is here.
Tripod Screw	Install the binocular on tripod.
Aviation Connector	Connect with the cables. See 0.
Approaching Sensor	Detect whether human eyes are approaching to save power. If it detects eyes, the OLED screen turns on, otherwise the OLED screen is off.



The laser function only supported by certain camera models.

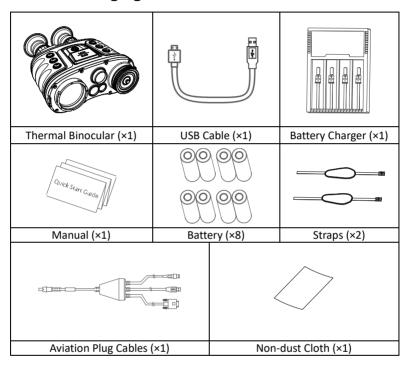
1.3.3 Cable



Cable	Function
BNC	Connect it to the display screen.
USB	Connect it to your PC to backup videos/images.
DB9	Reserved.

2 Preparation

2.1 Packaging List



2.2 Charge Device

Purpose:

For the first use, when the device is running in low battery, charge the batteries.

Steps:

- Take out the USB cable from the package.
- 2. Connect the USB cable with battery charger and appropriate adaptor.

Insert the batteries in the charger with corresponding positive/negative terminals.

i NOTE

When the charger is powered on, the LCD display automatically lights up. The charger will detect the battery and charge it.

Status	Description
Unlighted	Power-saving mode, press any button to activate it.
Good	Battery is healthy.
Poor	Battery is damaged.
EE EE	Battery reverse connected or short circuit.
END	Battery is charged more than 20h.

4. Complete battery charging and disassemble the battery.

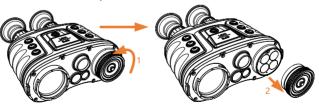
2.3 Install Battery

Purpose:

Insert the batteries into the battery compartment.

Steps:

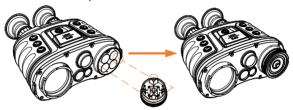
1. Rotate the battery cover anticlockwise to disassemble it.



2. Insert four batteries with positive/negative marks to match those of the battery compartment



- Align the shape of battery cover with that of the batteries and cover the batteries.
- 4. Rotate the battery cover clockwise to fix it.



2.4 Mount Interchangeable Lens

Step:

Align the two red spots on the interchangeable lens and the objective, then rotate the interchangeable lens clockwise to finish mounting.



Rotate the interchangeable lens anticlockwise to dismount it.

2.5 Power On/Off

When the binocular is fully charged, press the $\,^{\mbox{$\rlap{ψ}}}\,$ key to power on it

When the binocular is running, hold the between key to power off it. Turn the device according to the figure below after starting up. You can use the DMC function when the calibration level in the upper left corner of the screen is three.



i NOTE

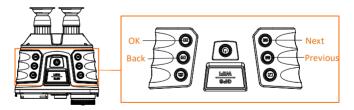
- Only models without laser distance measurement require the operation in the figure, please take the actual model for reference.
- See the battery icon for the electricity quantity. Immeans battery is fully charged, and Immeans that the battery runs low.
- When the low power note shows, charge the battery.

2.6 Menu Description

Step:

Hold the Mutton to show the menu.

In the menu, the direction keys, OK key, and the Exit key are shown below.



See the figure below for the menu interface.

i NOTE

The figure below is only for reference, the font size is readjusted for better viewing.



2.7 Cable Connection

i NOTE

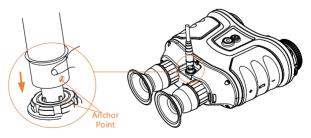
- DO NOT drag the cables when you are connecting the cables, or the cables are connected.
- To plug in/out the cable, hold the cable end and then plug in/out it. DO NOT twist the cables, or the pins inside may be damaged.

Purpose:

Connect the binocular with the aviation cable, and you can connect the device to your PC via USB interface or the display via the BNC interface.

Step:

Connect the aviation cable with the aviation Interface. Make sure the anchor points match with each other and insert the cable.



To disconnect the cable, lift the cable.

3 Image Settings

3.1 Set Focus

I NOTE

DO NOT touch the lens directly with your finger, or place any sharp objects near it.

Steps:

1. Slightly rotate the focus wheel to focus the eyepiece.



2. In the live view interface, press or hold the key and key to focus the objective. Press the key to focus step by step. Hold the key to focus quickly.

3.2 Adjust Brightness

Steps:

- 1. Hold the M key to show the menu of binocular.
- Press the key and key to move the cursor to Display submenu.
- 3. Press the 🛨 key to confirm.
- Press the ⋈ key and ⋈ key to move the cursor to Brightness submenu.
- 5. Press the 🖶 key to confirm.
- 6. Press the key or key, and press the key to adjust the brightness value. The higher, the brighter.
- 7. Press the key to save and exit.

3.3 Adjust Contrast

Steps:

- 1. Hold the key to show the menu of binocular.
- Press the key and M key to move the cursor to Display submenu.
- 3. Press the 🖶 key to confirm.
- 4. Press the key and key to move the cursor to **Contrast** submenu.
- 5. Press the 🖶 key to confirm.
- 6. Press the key or key, and press the key to adjust the contrast value. The higher, the more contrasting.
- 7. Press the key to save and exit.

3.4 Switch Mode

Purpose:

The change of environment temperature will affect the display effect. You can switch the mode between **Winter** and **Summer** to get a better view.

Steps:

- 1. Hold the key to show the menu of binocular.
- Press the key and M key to move the cursor to Display submenu.
- 3. Press the 🖶 key to confirm.
- - i NOTE

The submenu is not displayed in Visible mode.

- Press the key to switch mode between winter and summer.
- 6. Press the key to save and exit.

3.5 Set Palettes

Purpose:

The binocular has dual-lens: thermal and visible light lens. You can set the thermal/optical view to show thermal channel, visible light channel, or both of them. For thermal view, you can set the palettes.

Step:

- In the live view interface, press the key to display the palettes menu.
- 2. Press the key to switch the view mode.

Mode	Description	
Thermal	In thermal mode, the device displays the thermal view. Press the key to switch between white hot and black hot mode.	
Visible	In visible mode, the device displays the view of visible light channel.	
Fusion B/W	It displays the combined view of thermal channel and optical channel in black and white.	
City	Applicable to city environment.	
Jungle	Applicable to jungle environment.	
Desert	Applicable to desert environment.	
Sea	Applicable to sea environment.	
Snow Applicable to snow environment.		

Result:

After setting the palette, the current palette, next palette, and the previous palette are shown in the upper right corner.



3.6 Fusion Target

Before you start:

Mount the desired interchangeable lens first.

Steps:

- 1. Hold the key to show the menu of binocular.
- Press the key and key to move the cursor to Settings submenu.

i NOTE

The submenu is not displayed in **Visible** mode or **Thermal** mode.

- 4. Press the 🛨 key to confirm.
- 6. Press the key to confirm.

3.7 Adjust Digital Zoom

3.8 Set OSD

Steps:

- 1. Hold the key to show the menu of binocular.
- Press the ⋈ key and ⋈ key to move the cursor to Settings submenu.
- 3. Press the key to confirm.
- 5. Press the 🖶 key to switch on/off OSD.

3.9 Display Time

Steps:

- 1. Hold the M key to show the menu of binocular.
- Press the key and key to move the cursor to Settings submenu.
- 3. Press the 🛨 key to confirm.
- 4. Press the key and key to move the cursor to **Time** submenu.
- 5. Press the 🖶 key to switch on/off time display.

3.9.1Synchronize Time

Steps:

1. Hold the key to show the menu of binocular.

- Press the key and key to move the cursor to Settings submenu.
- 3. Press the 🛨 key to confirm.
- 4. Press the key and key to move the cursor to **Time Sync** submenu.
- 5. Press the 🖶 key to confirm.
- 6. Press the key and key to move the cursor to **24-Hour** Time.
- 7. Press the key to enable or disable 24-Hour time display.
- 8. Press the key and key to move the cursor to date or time setting position.
- 9. Press the key to confirm.
- 10. Press the key and key to adjust the value, and press the tkey to confirm.



4 Distance Measurement and Target

Positioning

Before you start:

Enable the GPS function first, and then the position of the user and the target can be displayed when measuring distance.

In the live view interface, aim the cursor at the target and hold the key, and then the distance towards the target can be measured, and the position of the target can be obtained.



Result:

The target position, user position and target distance are displayed at the left of the interface.



The laser function only supported by certain camera models.



Warning:

The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the Light Supplement function, make sure no human or inflammable substances are in front of the laser lens.

5 Enable GPS

Steps:

- 1. Hold the key to show the menu of binocular.
- 3. Press the 🛨 key to switch ON or OFF.

6 Picture and Video

6.1 Capture Snapshots

In the live view mode, press the wey to capture a snapshot. When capturing succeeded, it shows **Capture succeeded**. When capturing failed, it shows **Capture failed**.

6.2 Record Video

Steps:

- 1. In the live view mode, hold the key to record videos. When the record time shows on the top, it starts recording.
- When the desired video is recorded, hold the key to stop recording.

6.3 View Snapshots

Steps:

- Hold the Mey to show the menu of binocular.
- Press the key and key to move the cursor to File submenu.
- 3. Press the 🖶 key to confirm.
- 4. Press the **■** key and **№** key to move the cursor to **Image/Video** submenu.
- 5. Press the 🖶 key to confirm.
- 6. Press the key and key to select file.
- 7. Press the key to view the selected file. Hold the key to delete the selected snapshot.
 - i NOTE

You can also delete the snapshot while viewing the live view.

6.4 Export File

Before you start:

Connect the binocular to your PC via USB interface of the aviation plug.

Purpose:

Export the videos and snapshots with your PC.

Steps:

- In your PC, go to the Removable Disk.
- Double-click to open the disk. View or copy the videos or snapshots.
- 3. Disconnect the binocular with the PC.

7 T-Vision Connection

Purpose:

You can configure the parameters, capture pictures, or record videos of the device via the software.

Steps:

- 1. Hold the M key to show the menu of binocular.
- Press the key and key to move the cursor to WLAN submenu.
- 3. Press the 🛨 key to confirm.
- Press the key and key to move the cursor to Hot Spot submenu.
- 5. Press the 🛨 key to confirm.
- 6. Turn on the WLAN of your phone and connect to the hot spot.
 - Hot Spot Name: HIK-IPTS Serial No.
 - Hot Spot Password: Serial No.
- Search the "T-Vision" on App Store (iOS System) or Google Play
 [™] (Android System) to download and install the App.





Android System

iOS System

8. Open the App and connect your phone with the device. You can view the interface of binocular on your phone.

8 CVBS Output

Before you start:

Connect the binocular to the display unit via CVBS interface of the aviation plug. Refer to Section **2.6**.

Purpose:

View the binocular image on the display unit for details.

Steps

- 1. Hold the key to show the menu of binocular.
- Press the

 key and

 key to move the cursor and open

 Settings submenu.
- 3. Press the

 key and

 key to move the cursor and open

 CVBS ON/OFF submenu.
- 4. Press the 🖶 key to switch on CVBS.

9 Maintenance

9.1 Restore Device

Purpose:

Restore the device to default settings.

Steps:

- 1. Hold the key to show the menu of binocular.
- Press the key and key to move the cursor to Settings submenu.
- 3. Press the 🖶 key to confirm.
- 4. Press the key and key to move the cursor to **Reset** submenu.
- 5. Press the 🖶 key to confirm.

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Γ		
1		NOTE

After restoring, the device reboots automatically. You need to activate the device again.

9.2 Upgrade Device

Steps:

 Connect the device to your PC with cable and open the detected disk

- Copy the upgrade file and paste it to the root directory of the device
- 3. Disconnect the device from your PC.
- Reboot the device and then it will upgrade automatically. The upgrading process will be displayed in the main interface.

i NOTE

After the upgrading, the device automatically reboot. You can view the current version in **Settings > Firmware Version**.

10 Appendix

10.1 Device Command

Scan the following QR code to get device common serial port commands.

Note that the command list contains the commonly used serial port commands for Hikvision thermal cameras.



10.2 Device Communication Matrix

Scan the following QR code to get device communication matrix.

Note that the matrix contains all communication ports of Hikvision thermal cameras.



