



Thermal Monocular
HIKMICRO GRYPHON & GRYPHON LRF Series

User Manual V5.5.54 202212



Contact Us

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Chapter 1 Overview

1.1 Device Description

HIKMICRO GRYPHON & GRYPHON LRF thermal monocular supports functions of observation, hotspot, hot tracking, bi-spectrum image fusion, laser distance measurement, and so on. The thermal monocular is mainly applied to scenarios such as hunting, searching and rescuing, hiking, travel, etc.

1.2 Main Function

- Distance Measurement: The device can detect the distance between the target and the device.
- Hot Tracking: The device can detect the highest temperature in the scene and mark the spot.
- Client Software Connection: The device can capture snapshots, record videos, and set parameters by HIKMICRO Sight App after being connected to your phone via hotspot.
- Image Correction: The device supports DPC (Defective Pixel Correction) and FFC (Flat Field Correction) which can optimize the image quality.
- Palettes: The device supports multiple palettes, and you can set the palette mode according to the scene.
- Fusion: The device can display the fusion of thermal view and optical view.

1.3 Appearance

There are two types of thermal monocular. The appearance description of the two types are shown below. Please take the actual product for reference.

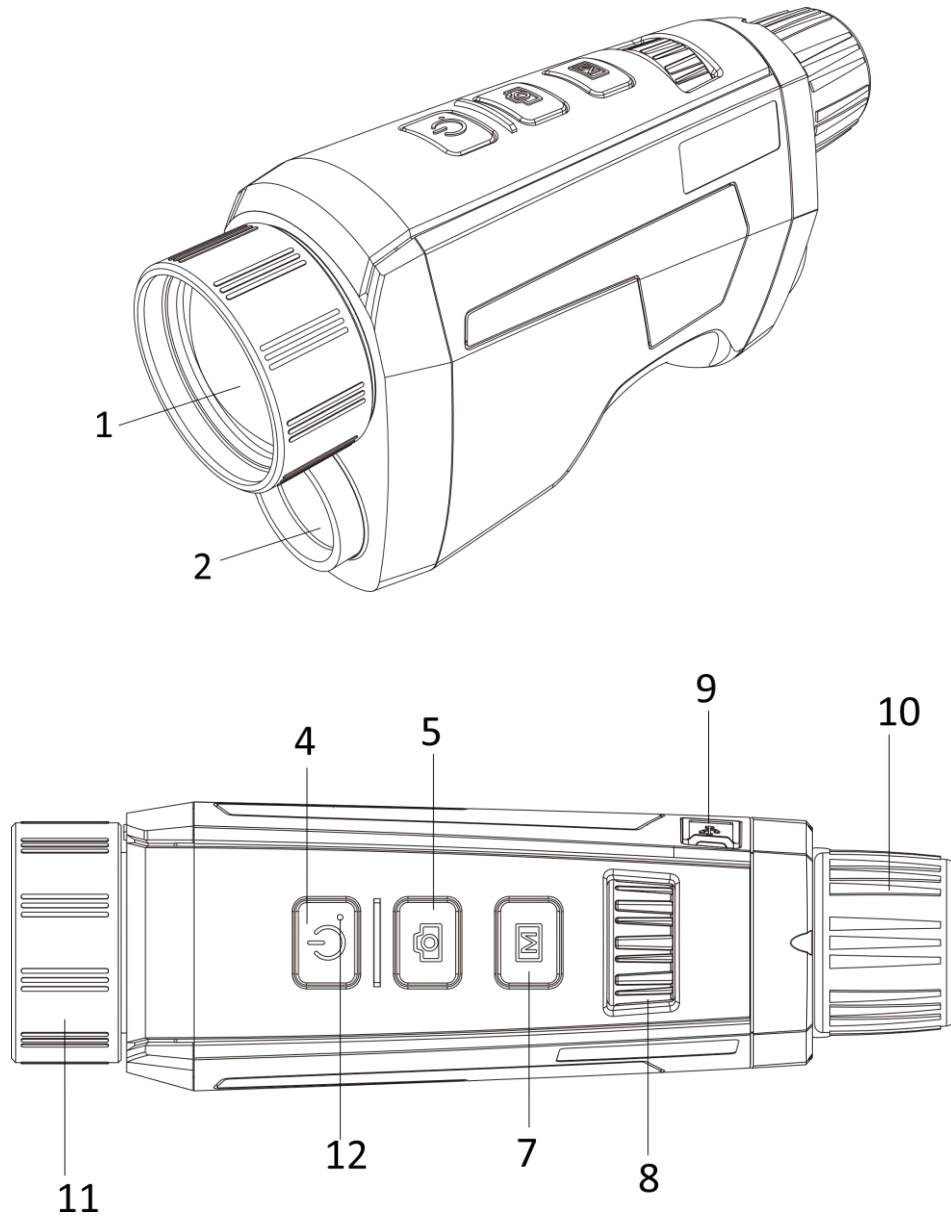


Figure 1-1 Appearance of GRYPHON

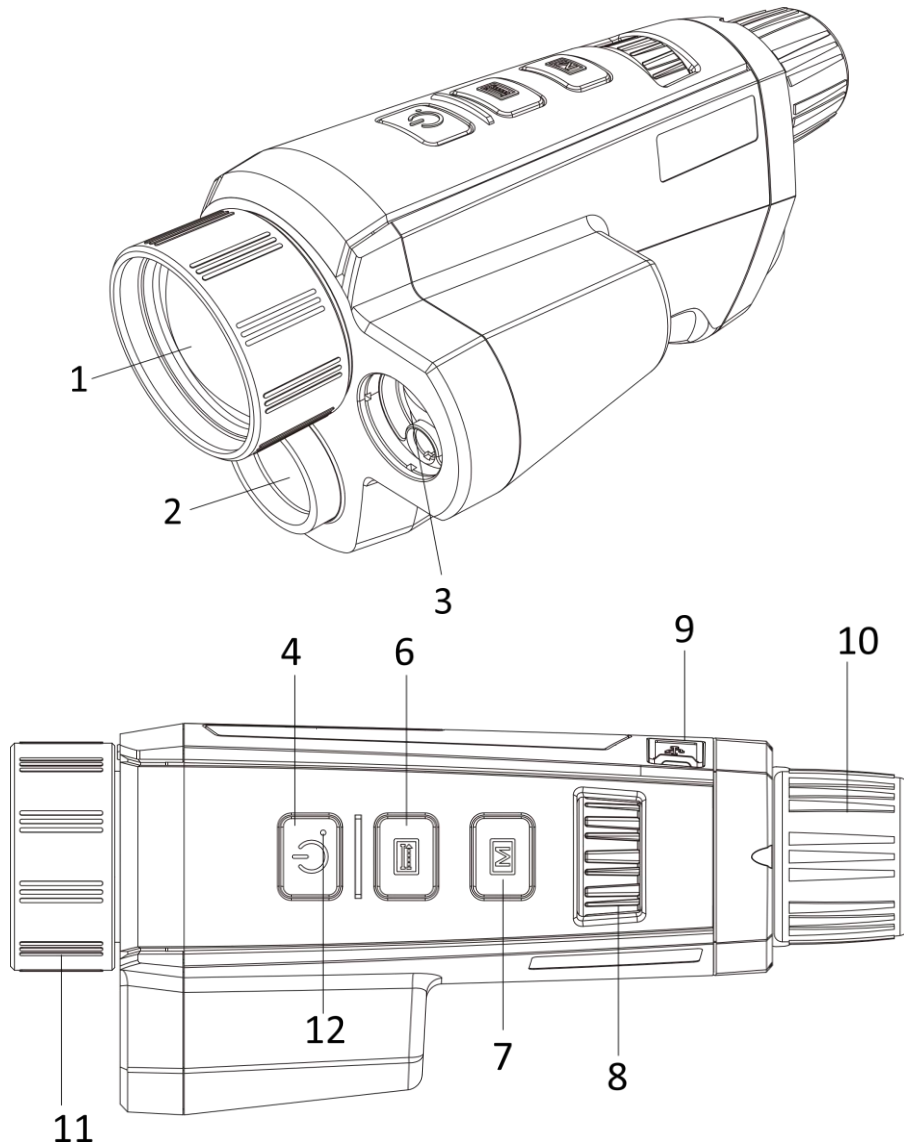


Figure 1-2 Appearance of GRYPHON LRF

Table 1-1 Buttons and Component of Two Appearances

No.	Description	Function
1	Thermal Lens	Views the thermal image
2	Optical Lens	Views the optical image
3	Laser Range Finder	Measures the distance with laser
4	Power Key	- Press: Standby Mode/Wake up Device - Hold: Power On/Off
5	Capture Key	- Press: Capture pictures - Hold: FFC

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No.	Description	Function
6	Measure Key	● Press: Measures the distance with laser ● Hold: Capture pictures
7	Menu Key	● Press: Switch palettes ● Hold: Enter/exit the menu
8	Wheel	● Adjusts the digital zoom ● Selects functions in menu mode
9	Type-C Interface	● To connect the device to power supply or transmit data with a type-C cable
10	Eyepiece	● The piece placed closest to the eye to view the target
11	Focus Ring	● Adjusts focus to obtain clear targets
12	Indicator	● Indicates the on/off mode of the device

Note

- Press the Measure Key/Capture Key and Menu Key at the same time to start or stop recording.
 - Press the Power key, Measure Key/Capture Key and Menu Key at the same time to enter the hidden menu.
-

Chapter 2 Preparation

2.1 Connect Device

Before You Start

Turn on the device after connecting it to your PC, and keep the device on for 10 to 15 seconds before other operations.

Steps

1. Lift the cable interface cover.
2. Connect the device and power adapter with a Type-C cable to power on the device.
Alternatively, connect the device and PC to export files.

2.2 Install Battery

2.2.1 Battery Instruction

- Remove the battery from the battery compartment if the device is not used for a long time.
- The battery charger is not included in the package. Please purchase it by yourself.
- If you are using rechargeable battery, charge it for more than 5 hours before first use.
- The external removable battery type is 18650, and the battery size should be 19.2 mm × 70 mm. The nominal voltage and capacity are 3.6 VDC/3200 mAh.
- The built-in battery type is lithium battery, and the battery size should be 6.8 mm × 2.1 mm. The nominal voltage is 3 VDC, and the rated capacity is 3 mAh.

2.2.2 Battery Installation

Insert the battery into the battery compartment.

Steps

1. Press and push the battery compartment lock (shown in the black frame), rotate the battery cover anticlockwise until the marks on the battery cover and the device are aligned, and disassemble the battery cover.

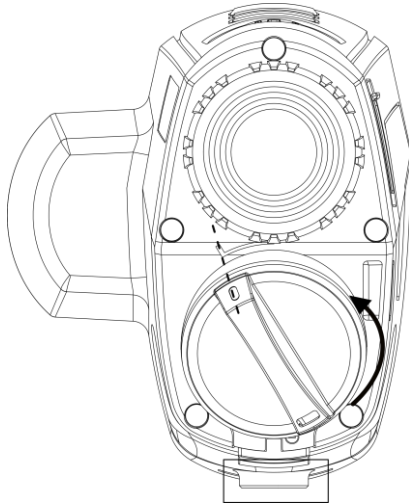


Figure 2-1 Disassemble the Battery Cover

2. Insert the battery into the battery compartment with the positive mark inward.

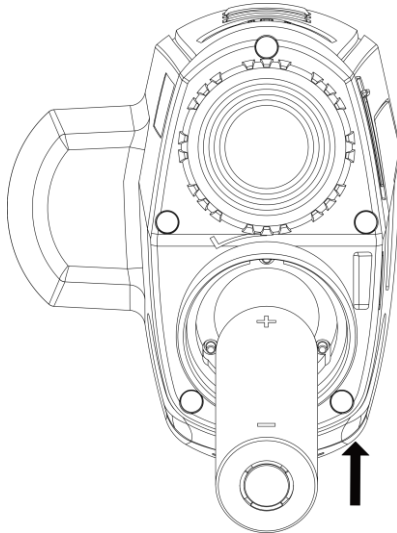


Figure 2-2 Install the Battery

3. Align the marks on the battery cover and the device, and put the battery cover on the battery.

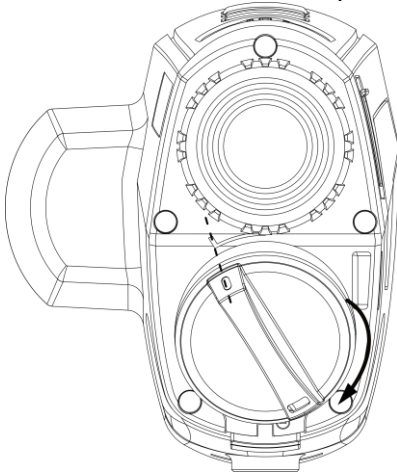


Figure 2-3 Install the Battery Cover

4. Rotate the battery cover clockwise to fix it.

2.3 Power On/Off

Power On

When the battery is enough, hold  for 2 seconds to power on the device.

Power Off

When the device is turned on, hold  for 2 seconds to power off the device.

Note

- Power-off countdown will appear when you power off the device. You can press any key to interrupt the countdown and cancel the power-off.
 - Automatic low battery power-off cannot be canceled.
-

Auto Power Off

You can set the auto power off time for your device.

Steps

1. Hold  to go to the menu.
 2. Rotate the wheel to select , and press  to select the auto power off time as required.
 3. Hold  to save and exit.
-

Note

- See the battery icon for the battery status.  means the battery is fully charged, and  means that the battery is low.
 - When the low power note shows, charge the battery.
 - The auto power off countdown will start again when the device exits standby mode, or the device is restarted.
-

2.4 Menu Description

When the device is turned on, hold  to show the menu.

In the menu, you can rotate the wheel to select functions, press  to configure the selected function, and hold  to exit the menu.

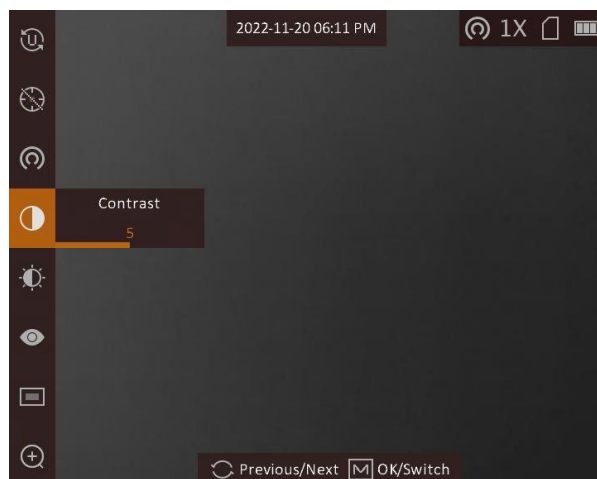


Figure 2-4 Menu Interface

2.5 Firmware Status

2.5.1 Client Software Connection

Connect the device to the HIKMICRO Sight App via hotspot, then you can capture picture, record video, or configure parameters on your phone.

Steps

1. Hold  to show the menu of device.
2. Press  to enable hotspot function.
3. Turn on the WLAN of your phone and connect to the hotspot.
 - Hotspot Name: Wlan-IPTS Serial No.
 - Hotspot Password: Serial No.
4. Scan the QR code to download and install the App.



Android System



iOS System

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

Note

- The device cannot connect to the App if entering wrong password several times. Refer to

Restore Device to reset the device, and connect the App again.

- The device should be activated for the first use. The default password must be changed after the activation.
-

2.5.2 Check Firmware Status

Steps

1. Open the HIKMICRO Sight and connect your device to the app.
2. Check if there is a red spot on the connection interface. If there is no red spot, the firmware is the latest version. Otherwise, the firmware is not the latest version.

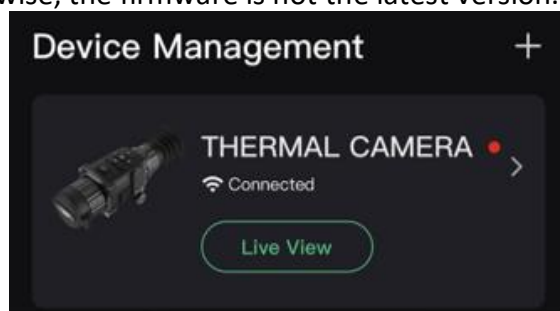


Figure 2-5 Check Firmware Status

3. (Optional) If the firmware is not the latest version, upgrade the device. See **Upgrade Device**.

2.5.3 Upgrade Device

Upgrade Device via HIKMICRO Sight

Before You Start

Install HIKMICRO Sight on your phone and connect your device to the app.

Steps

1. Tap the device series to enter the device information interface.
2. Tap **Device Upgrade** to enter the firmware upgrade interface
3. Tap **Upgrade** to start upgrade.

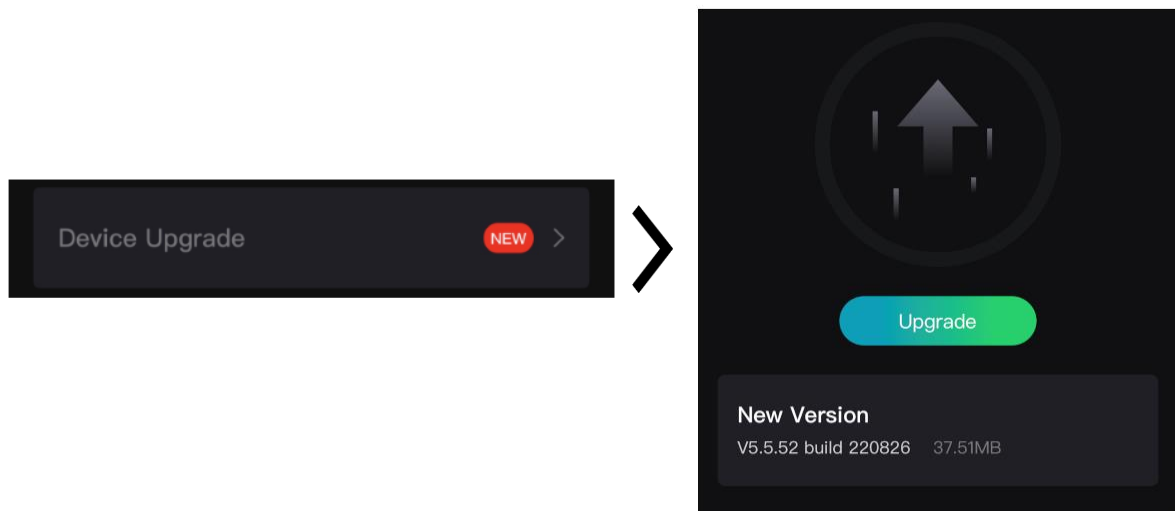


Figure 2-6 Upgrade Firmware

Note

The upgrading operation may vary due to app updates. Please take the actual app version for reference.

Upgrade Device via PC

Before You Start

- Please get the upgrade package (including Main Firmware and FPGA Firmware) first.
- Make sure the hotspot function is disabled.
- Turn on the device after connecting it to your PC, and keep the device on for 10 to 15 seconds before other operations.

Steps

1. Connect the device to your PC with cable, and then turn on the device.
2. Open the detected disk, copy the upgrade file and paste it to the root directory of the device.
3. Hold  to reboot the device, and the device upgrades automatically. The upgrading process will be displayed in the main interface.

Note

During the upgrade, make sure the device is connected to your PC. Otherwise, it may cause unnecessary upgrade failure, firmware damage, etc.

4. Repeat the above steps to upgrade all firmwares one by one.

Chapter 3 Image Settings

3.1 Adjust Focus

Steps

1. Power on the device.
2. Hold the device and make sure the eyepiece covers your eye.
3. Adjust the focus ring until the image is clear.

Note

When focusing, do not touch the surface of lens to avoid smearing the lens.

3.2 Adjust Brightness

In the menu mode, rotate the wheel to select  and press  to adjust brightness. In white hot mode, the higher the value of brightness is, the brighter the image is. The image effect in white hot mode is showed as picture below and effect in black hot mode is opposite.



Figure 3-1 Adjust Brightness in White Hot Mode

3.3 Adjust Contrast

In the menu mode, rotate the wheel to select  and press  to adjust image contrast.

3.4 Select Scene Mode

You can select proper scene mode according to actual using scene to improve the display effect.

Steps

1. Hold  to go to the menu.
2. Rotate the wheel to select  and press  to switch scene mode.
 -  refers to recognition mode and is recommended in normal scene.

-  refers to jungle mode and is recommended in hunting environment.
3. Hold  to save settings and exit.

3.5 Set Palettes

You can select different palettes to display the same scene in different effects.

Steps

1. Hold  to go to the menu.
2. Rotate the wheel to select .
3. Press  to go to the palettes interface.
4. Rotate the wheel to select the palettes required, and press  to enable it/them.

Note

- At least one palette should be enabled.
 - The default palettes are White Hot, Optical, and Fusion.
-

5. Hold  to save the settings and exit.
6. Press  in live view interface to switch the selected palettes.

Optical

The image of optical channel is displayed in this mode.



White Hot

The hot part is light-colored in view. The higher the temperature is, the lighter the color is.



Black Hot

The hot part is black-colored in view. The higher the temperature is, the more black the color is.



Red Hot

The hot part is red-colored in view. The higher the temperature is, the redder the color is.



Fusion

From high temperature to low temperature, the image is colored in from white, yellow, red, pink to purple.



Image Fusion

Fuse the optical image with the thermal image. The fused image with clear edge is displayed in this mode.



3.6 Set Fusion Level

When the palette is set as image fusion, you can adjust the fusion level according to the actual observation distance to obtain better image fusion effect.

Steps

1. Hold **[M]** to show the menu.
2. Rotate the wheel to select **[Fusion]**.
3. Press **[M]** to switch fusion level.
4. Hold **[M]** to save the settings and exit.

3.7 Adjust Digital Zoom

In the live view interface, rotate the wheel to adjust digital zoom of the device.

Steps

1. Hold  to go to the menu.
2. Rotate the wheel to select  and press  to switch the zoom mode.
 - **Multiple:** The digital zoom ratio can be set to 1×, 2×, 4×, and 8×.
 - **Continuous:** The digital zoom ratio can be set from 1.0× to 8.0× continuously.
3. Hold  to save settings and exit.
4. In the live view interface, rotate the wheel to switch the digital zoom of the device.

3.8 Set Picture in Picture Mode

Steps

1. In the live view interface, hold  to go to the menu.
2. Rotate the wheel to select , and press  to enable or disable PIP mode. The details show in the upper center of the view.
3. Hold  to save the settings and exit.



Figure 3-2 Set Picture in Picture Mode

Note

If digital zoom is enabled, only the PIP view zooms.

3.9 Correct Defective Pixel

The device can correct the defective pixels on the screen which are not performed as expected.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to enter the DPC setting interface.
3. Press  to switch the moving direction of the cursor. If you select **X**, the cursor moves left and right; if you select **Y**, the cursor moves up and down.

4. Rotate the wheel to move the cursor until it reaches the defective pixel.
5. Press **[M]** to set the axis as **N**, and rotate the wheel to select **DPC**.
6. Press **[M]** to correct the defective pixel.

Note

- The selected defective pixel can be magnified and displayed at the bottom right of the interface.



Figure 3-3 Correct Defective Pixel

- If the screen OSD blocks the dead pixel, the device performs mirror display automatically.

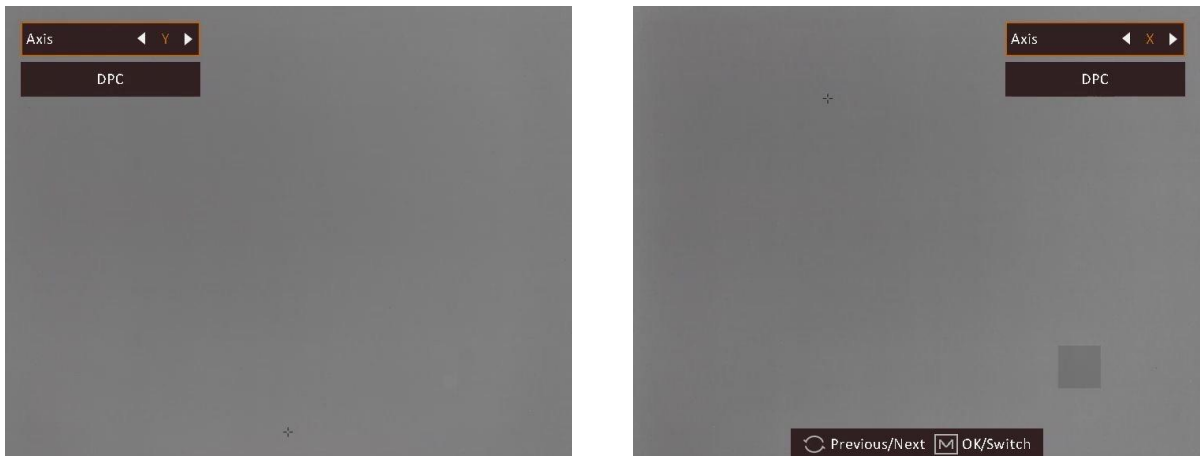


Figure 3-4 Mirror Effect

3.10 Flat Field Correction

This function can correct non-uniformity of display.

Steps

1. Hold **[M]** to go to the menu.

2. Rotate the wheel to select  and press  to switch the image calibration mode.
 - Manual FFC: Rotate the wheel to select , and press  to trigger calibration.
 - Auto FFC: The device performs FFC automatically according to the set schedule when switching on the camera.
 - External: Cover the lens cover, rotate the wheel to select , and press  to trigger calibration.
 3. Hold  to exit.
-

Note

- The countdown will start before the device performs FFC automatically.
 - For models/devices without laser range finder, hold capture key to trigger manual FFC.
-

Chapter 4 Measure Distance

The device can detect the distance between the target and the observation position with laser.

Before You Start

When measuring the distance, keep the hand and the position steady. Otherwise, the accuracy may be affected.

4.1 Measure Distance with Laser

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to enter the laser ranging setting interface.
3. Press  to enable **Laser Ranging**.
4. Rotate the wheel to select the laser ranging mode and press  to confirm. Once and continuous modes are selectable.
 -  means measuring the distance continuously, and the measurement duration can be selected. The measurement result will be refreshed every 1 s.
 -  means measuring the distance once.
5. Hold  to return to the live view interface.
6. Aim the cursor at the target and press the  key to measure the target distance.



Figure 4-1 Laser Ranging Result

Note

- The laser ranging function is only supported by models with laser range finder.
 - When PIP is enabled, PIP view remains in the distance measurement interface.
-

4.2 Measure Distance with Cursor

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to go to the setting interface.
3. Press  to set the parameters for the target.
 - 1) Rotate the wheel to select the target from **Deer**, **Grey Wolf**, **Brown Bear**, and **Custom**.
 - 2) Press  and rotate the wheel to set the target height.

Note

The available height ranges from 0.1 m to 9 m.

- 3) Press  to confirm.
- 4) Hold  to save the settings and return to the distance measurement interface.
3. Align the center of top mark with the edge of target top. Press  to confirm. The cursor blinks on the top edge of the target.
4. Align the center of bottom mark with the edge of target bottom. Press  to confirm.

Result

The left top of the image displays the distance measurement result and the height of the target.



Figure 4-2 Measurement Result

Note

- Go to distance measurement interface, and press  to view the result of the previous measuring target.
 - When PIP is enabled, PIP view remains in the distance measurement interface.
-

Chapter 5 General Settings

5.1 Set OSD

This function can display or hide the OSD information on the live view interface.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to enter the OSD setting interface.
3. Rotate the wheel to select the OSD information you want to display or hide.
4. Press  to enable or disable the selected OSD information.

5.2 Set Brand Logo

You can add brand logo on the live view interface.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select .
3. Press  to enable **Brand Logo**.
4. Hold  to save the settings and exit.

Result

The brand logo is displayed at the bottom right of the image.



Figure 5-1 Brand Logo Display

Note

After enabling this function, the brand logo only displays on the live view interface, captures and videos.

5.3 Burning Prevention

This function can prevent the detector of the thermal channel from being burned. When enabling this function, the shield will close if the grey scale of the detector reaches a certain value.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to enable or disable the burn-prevention function.

Note

Avoid direct sunlight and enable the burning prevention function to reduce the risk of sensor damage from the heat.

5.4 Capture and Video

5.4.1 Capture Picture

In the main live view interface, hold  or press  to capture pictures. The device supports capturing pictures while recording videos.

Note

When capturing succeeds, the image freezes for 1 second and a prompt shows on the display. For exporting captured pictures, refer to **Export Files**.

5.4.2 Record Video

Steps

1. In the live view interface, press / and  at the same time to start recording.



Figure 5-2 Start Recording

The left top of image displays the information of recording time.

2. Press / and  at the same time again to stop recording.

What to do next

For exporting recording files, refer to **Export Files**.

5.5 Hot Tracking

The device can detect the highest temperature spot in the scene and mark it on display.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to mark the spot of highest temperature.

Result

When the function is enabled,  displays in the spot of highest temperature. When the scene changes, the  moves.



Figure 5-3 Hot Tracking

5.6 Export Files

This function is used to export recorded videos and captured pictures.

Before You Start

- Turn off the hotspot function.
- Turn on the device after connecting it to your PC, and keep the device on for 10 to 15 seconds before other operations.

Steps

1. Connect the device and PC with a Type-C cable.

Note

Make sure the device is turned on when connecting the cable.

2. Open computer disk and select the disk of device. Go to the **DCIM** folder and find the folder named after the capture year and month. For example, if you capture a picture or record a video on June 2021, go to **DCIM → 202106** to find the picture or video.
3. Select and copy the files to PC.
4. Disconnect the device from your PC.

Note

- The device displays images when you connect it to PC, but functions such as recording, capturing and hotspot are disabled.
 - When you connect the device to PC for the first time, it installs the drive program automatically.
 - You can also export files via HIKMICRO Sight. See the user manual of the app for detailed operation.
-

Chapter 6 System Settings

6.1 Synchronize Time

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to enter the time setting interface.
3. Press  to switch the time system, and rotate the wheel to select the time and date to be synchronized.
4. Press  and rotate the wheel to set the time and date, and press  again to finish the setting.
5. Hold  to save settings and exit.

6.2 Language Settings

You can select the device language in this function.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to enter the language configuration interface.
3. Rotate the wheel to select the language as required, and press  to confirm.

6.3 Unit Settings

You can switch the unit for fusion level and laser ranging functions.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to switch the unit. **Yard** and **m** (meter) are selectable.
3. Hold  to save settings and exit.

6.4 CVBS Output

The CVBS output is used to debug the device. You can also view the device image on the display

unit for details.

Before You Start

Connect the device to the display unit via CVBS interface of the aviation plug.

Steps

1. Hold  to show the menu.
2. Rotate the wheel to select , and press  to switch on CVBS.



Note

The CVBS cable is not included in the package, please purchase it by yourself.

6.5 View Device Information

Steps

1. Hold  to show the menu of device.
2. Select , and press . You can view the device information such as version, and serial No.

6.6 Restore Device

Steps

1. Hold  to show the menu of device.
2. Select , and press  to restore the device to defaults according to the prompt.

Chapter 7 Frequently Asked Questions

7.1 Why is the monitor off?

Check whether the device is off-battery. Check the monitor after charging the device for 5 minutes.

7.2 The image is not clear, how to adjust it?

Adjust the focus ring until the image is clear. Refer to *Adjust Focus*.

7.3 Capturing or recording fails. What's the problem?

Check the following items.

- Whether the device is connected to your PC. Capturing or recording is disabled in this status.
- Whether the storage space is full.
- Whether the device is low-battery.

7.4 Why the PC cannot identify the device?

Check the following items.

- Whether the device is connected to your PC with supplied USB cable.
- If you use other USB cables, make sure the cable length is no longer than 1 m.

Chapter 8 Appendix

8.1 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 HIKMICRO thermal cameras.



8.2 Device Communication Matrix

Scan the following QR code to get device communication matrix.

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



Safety Instruction

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.

Symbol Conventions

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

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

Transportation

- 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

- 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.
- The battery charger is included in the package. The input voltage for the supplied battery charger should meet the Limited Power Source (5 VDC, 2 A).
- Use the power adapter provided by qualified manufacturer. Refer to the product specification for detailed power requirements.

Battery

- Improper use or replacement of the battery may result in explosion hazard. Replace with the same or equivalent type only.
- The external removable battery type is 18650, and the battery size should be 19.2 mm × 70 mm. The nominal voltage and capacity are 3.6 VDC/3200 mAh.
- The built-in battery type is lithium battery, and the battery size should be 6.8 mm × 2.1 mm. The nominal voltage is 3 VDC, and the rated capacity is 3 mAh.
- Dispose of used batteries in conformance with the instructions provided by the battery manufacturer.
- 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 charge other battery types with the supplied charger. Confirm there is no flammable material within 2 m of the charger during charging.
- 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.
- The battery cannot be charged with external power source directly.
- The device cannot be charged, please use the supplied charger to charge the battery.
- Please purchase the adapter by yourself. The using environment of the adapter should be consistent with that of the device.
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.

Maintenance

- 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.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Clean the lens with soft and dry cloth or wiping paper to avoid scratching it.

Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be -30 °C to 55 °C (-22 °F to 131 °F), and the operating humidity shall be 95% or less.
- DO NOT expose the device to extremely hot, cold, dusty, corrosive, saline-alkali, or damp environments.
- 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

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, Zhejiang 310052, China
Hangzhou Microimage Software Co., Ltd.

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products among different countries.

Legal Information

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About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the HIKMICRO website (<http://www.hikmicrotech.com>).

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

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IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

Regulatory Information

These clauses apply only to the products bearing the corresponding mark or information.

FCC Information

Note: This product 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 product 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 product 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.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Note: Due to the device size limit, the above statement may not be disclaimed on the device.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/53/EU(RED), Directive 2014/30/EU(EMCD), Directive 2014/35/EU(LVD), Directive 2011/65/EU(RoHS).

Frequency Bands and Power (for CE)

The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to the following radio equipment are as follows:

Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz), 20 dBm

Use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

Use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.



Directive 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



Directive 2006/66/EC and its amendment 2013/56/EU (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.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-003 (B)/NMB-003 (B) standards requirements.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

ce matériel est conforme aux limites de dose d'exposition aux rayonnements, CNR-102 énoncée dans un autre environnement.

KC

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