



Thermal Monocular HIKMICRO OWL Series

User Manual V5.5.54 202212



Contact Us

Table of Contents

Chapter 1 Overview	1
1.1 Brief Description	1
1.2 Function	1
1.3 Appearance	2
1.3.1 Button	2
1.3.2 Component	3
Chapter 2 Preparation	4
2.1 Charge Device	4
2.2 Power On/Off	5
2.3 Menu Description	5
2.4 Firmware Status	6
2.4.1 Client Software Connection	6
2.4.2 Check Firmware Status	7
2.4.3 Upgrade Device	8
Chapter 3 Image Settings	9
3.1 Adjust Diopter	9
3.2 Adjust Focus	10
3.3 Adjust Brightness	11
3.4 Adjust Contrast	11
3.5 Select Scene	11
3.6 Set Palettes	11
3.7 Adjust Digital Zoom	13
3.8 Set Picture in Picture Mode	13
3.9 Flat Field Correction	14
3.10 Correct Defective Pixel	14
Chapter 4 Measure the Distance	16
Chapter 5 General Settings	17
5.1 Set OSD	17
5.2 Set Brand Logo	17
5.3 Burning Prevention	18

5.4 Capture and Video	18
5.4.1 Capture Picture	18
5.4.2 Record Video	18
5.5 Hot Tracking	19
5.6 Export Files	20
Chapter 6 System Settings	21
6.1 Synchronize Time	21
6.2 Language Settings	21
6.3 Unit Settings	21
6.4 CVBS Output	21
6.5 View Device Information	22
6.6 Restore Device	22
Chapter 7 Frequently Asked Questions	23
7.1 Why is the monitor off?	23
7.2 What should I do if I forget the login password?	23
7.3 The image is not clear, how to adjust it?	23
7.4 Capturing or recording fails. What's the problem?	23
7.5 Why the PC cannot identify the device?	23
Chapter 8 Appendix.....	24
8.1 Device Command.....	24
8.2 Device Communication Matrix	24
Safety Instruction.....	25
Legal Information.....	28
Regulatory Information	30

Chapter 1 Overview

1.1 Brief Description

HIKMICRO OWL thermal monocular supports functions of observation, distance measurement, hotspot, and so on. The high-sensitivity built-in thermal detector provides you with clear view even in total darkness. The monocular is mainly applied to scenarios such as hunting, searching and rescuing, hiking, and travel.

1.2 Function

Distance Measurement

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

Hot Tracking

The device can detect the highest temperature in the scene and mark the spot. This function varies according to different camera models.

Image Correction

The device supports DPC (Defective Pixel Correction) and FFC (Flat Field Correction) which can optimize the image quality.

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.

Storage

The built-in memory module supports video recording and snapshot capturing.

1.3 Appearance

1.3.1 Button

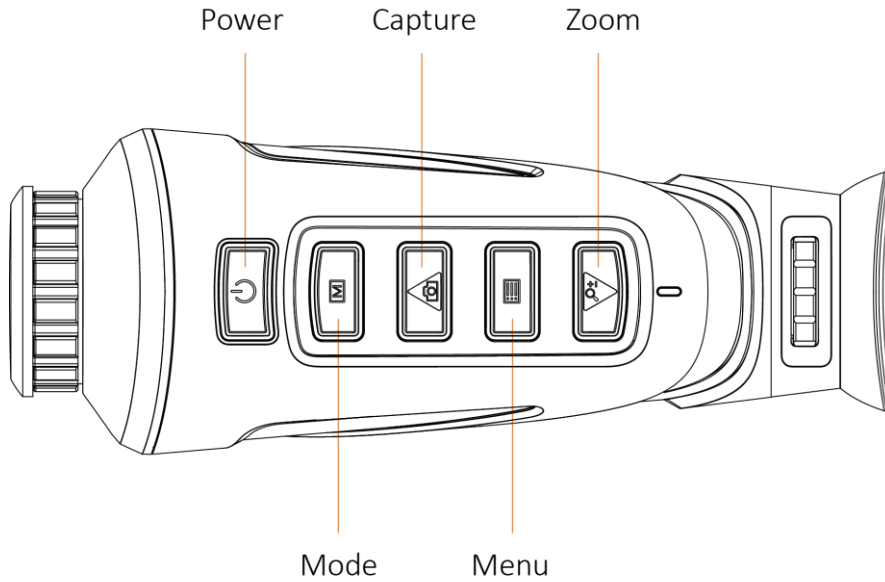







Figure 1-1 Buttons on the Device

Table 1-1 Function of Button

Icon	Button	Function
	Power	Hold: Power on/off
	Mode	Press: Switch palettes Hold: FFC
	Capture	Press: Capture pictures Hold: Start/stop recording
	Menu	Press: Standby mode on/off Hold: Display menu or not
	Zoom	Press: Start digital zoom

1.3.2 Component

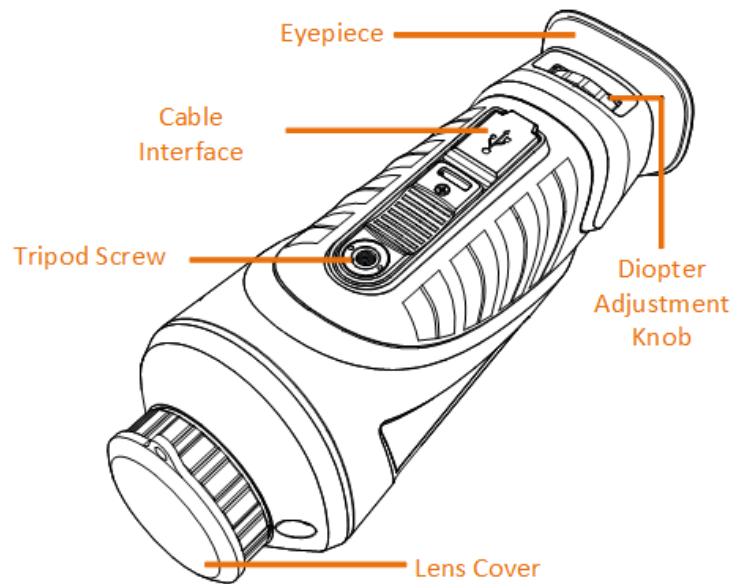


Figure 1-2 Overview of Components

- Lens Cover: Protects the lens from dust or scratch.
- Diopter Adjustment Knob: Adjusts the dioptric setting.
- Cable Interface: To connect the device to power supply or transmit data with a type-C cable.
- Tripod Screw: Installs the tripod.
- Eyepiece: The piece placed closest to the eye to view the target.

Chapter 2 Preparation

2.1 Charge Device

After the device starts up, the OSD (on-screen display) shows the battery status. When the battery is low, charge the device and ensure it works properly.

Before You Start

- The charging temperature should be from 0 °C to 45 °C (32 °F to 113 °F).
- Charge the device with the delivered cable.

Steps

1. Lift the cable interface cover.
2. Plug in the cable and charge the device.

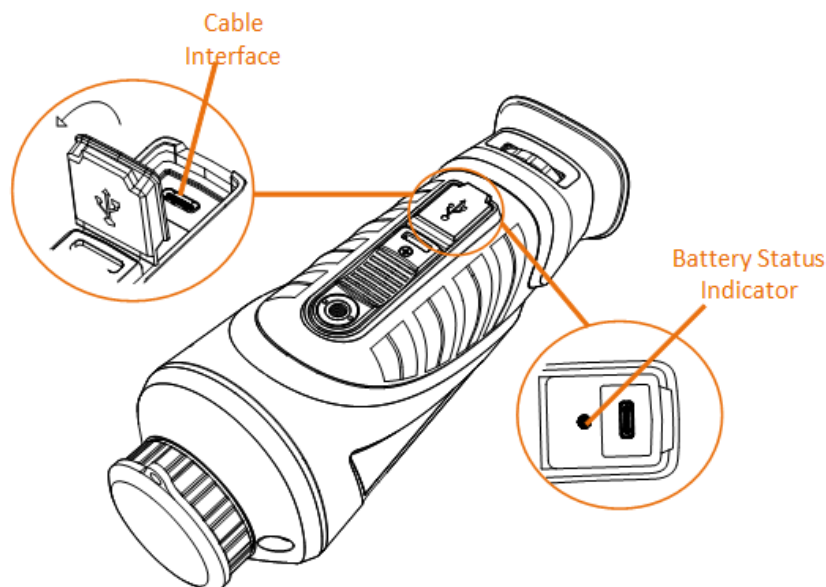


Figure 2-1 Cable Interface


- Flashing Red & Green: error occurred.
- Solid Red: battery is properly charged.
- Solid Green: battery is fully charged.
- OFF: battery is not charged.

Note

- Charge the device for more than 5 hours before first use.
 - The built-in battery type is 18650, and the battery size should be 24 mm × 72 mm. The rated voltage and capacity are 3.635 VDC/3350 mAh.
-

2.2 Power On/Off

Power On

When the device is connected to cable or 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. 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 will start again when the device exits standby mode or the device is restarted.
-

2.3 Menu Description

When the device powers on, hold  to display the menu.

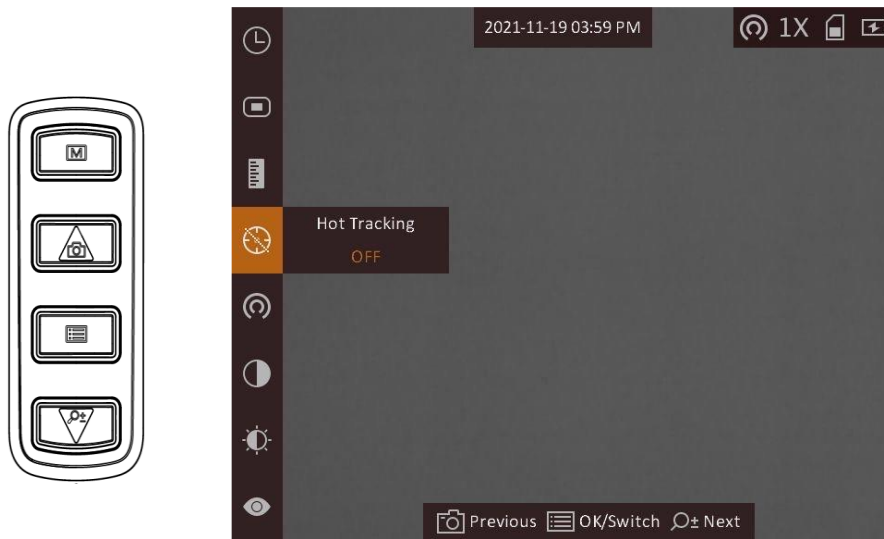





Figure 2-2 Menu Description



- Press  to move the cursor up.
- Press  to move the cursor down.
- Press  to confirm and hold it to exit the menu.

2.4 Firmware Status

2.4.1 Client Software Connection

Connect the device to the HIKMICRO Sight App via hotspot, and 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: HIK-IPTS Serial No.
 - Hotspot Password: Serial No.
4. Search the HIKMICRO Sight on App Store (iOS System) or Google Play™ (Android System) to download it, or 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 hotspot function will be turned off automatically when power is less than 15%.
 - The device cannot connect to the App if you enter 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.
-

2.4.2 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.

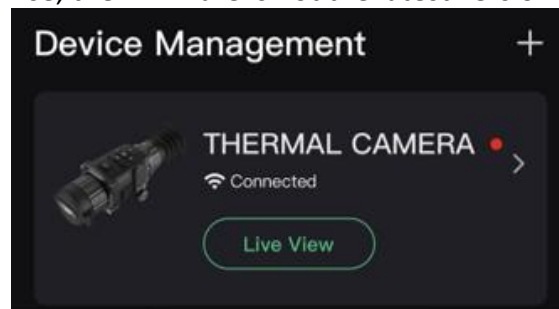


Figure 2-3 Check Firmware Status

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

2.4.3 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.

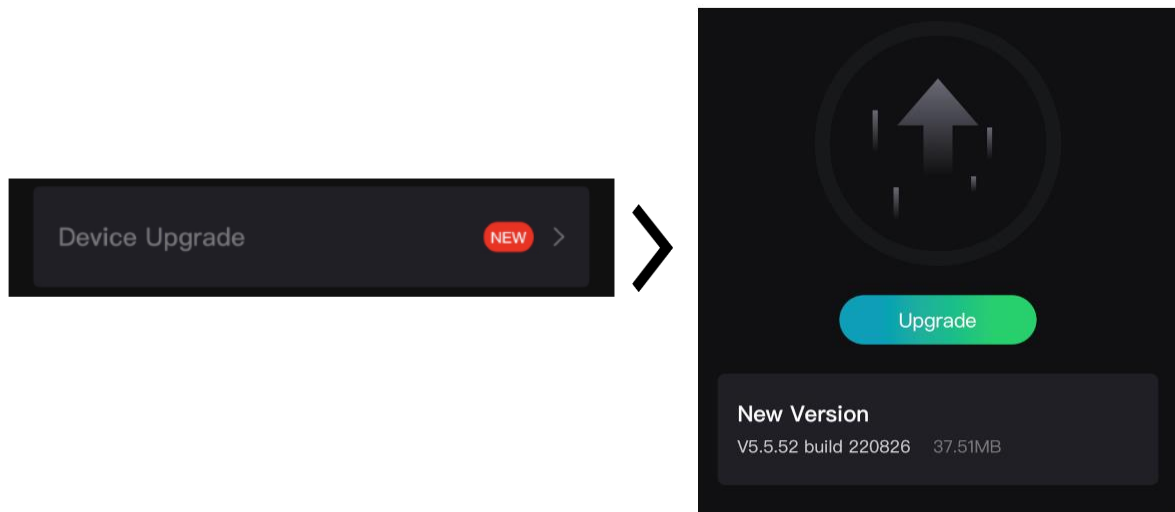


Figure 2-4 Upgrade Firmware

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 first.

Steps

1. Connect the device to your PC with cable.
2. 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.
4. Reboot the device.

Result

The device upgrades automatically. The upgrading process will be displayed in the main interface.

Chapter 3 Image Settings

You can set palettes, brightness, scenes, FFC (flat field correction), and DPC (defective pixel correction) to display the best image effect.

3.1 Adjust Diopter

Make sure the eyepiece covers your eye and aims at the target. Adjust the diopter adjustment knob until the OSD text or image is clear.

 **Note**

- When adjusting diopter, DO NOT touch the surface of lens to avoid smearing the lens.
 - This function varies according to different camera models.
-

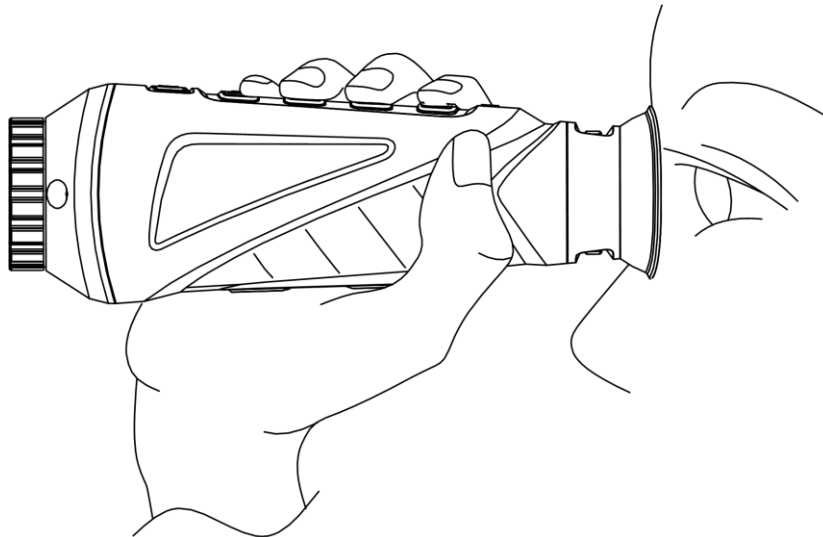


Figure 3-1 View the Target

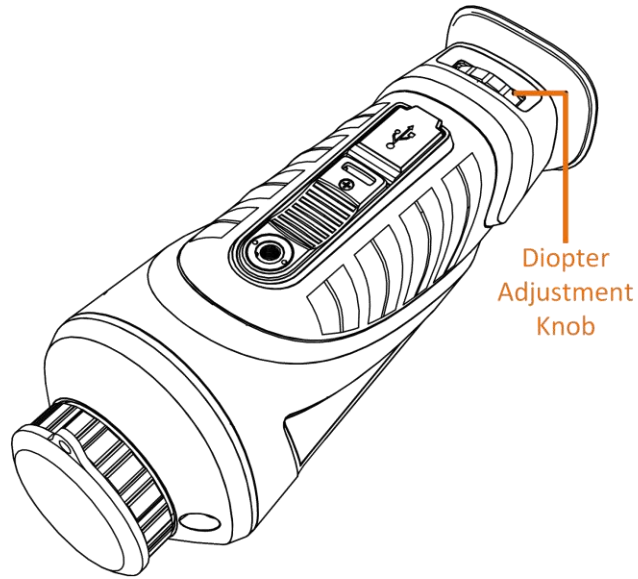


Figure 3-2 Adjust Diopter

3.2 Adjust Focus

Slightly rotate the focus ring to adjust the focus of the objective lens.



Figure 3-3 Adjust Objective Lens

 **Note**

- DO NOT touch the lens directly with your finger, or place any sharp objects near it.
 - This function varies according to different camera models
-

3.3 Adjust Brightness





In the menu mode, 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 3-4 Adjust Brightness in White Hot Mode







3.4 Adjust Contrast

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


3.5 Select Scene

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

Steps

1. Hold  to go to the menu.
2. Select  and press  to switch scene.
 -  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.

3.6 Set Palettes

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

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 darker 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.



3.7 Adjust Digital Zoom

You can zoom the image by using this function.

Press  in the view mode, the live view switches between 1 x, 2 x, 4 x, and 8 x.

Note

This function varies according to different camera models.

3.8 Set Picture in Picture Mode

Steps





1. In the live view interface, hold  to go to the menu.
2. 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 3-5 Set Picture in Picture Mode







 **Note**

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

3.9 Flat Field Correction

This function can correct non-uniformity of display.

Steps

1. Hold  to go to the menu.
 2. Select  and press  to switch FFC mode.
 - Manual: Hold  in live view to correct the non-uniformity of display.
 - Auto: The device performs FFC automatically according to the set schedule when switching on the camera.
 - External: Cover the lens cover, then hold  in live view to correct the non-uniformity of display.
 3. Hold  to save the settings and exit.
-










 **Note**

The countdown will start before the device performs FFC automatically.

3.10 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. Select .
 3. Press  to select the axis direction. If you select **X**, the cursor moves left and right; if you select **Y**, the cursor moves up and down.
 4. Press  or  to move the cursor to the defective pixel.
 5. Press  to set the axis as **N**, and press  or  to select **DPC**.
 6. Press  to correct the defective pixel.
-

 **Note**

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

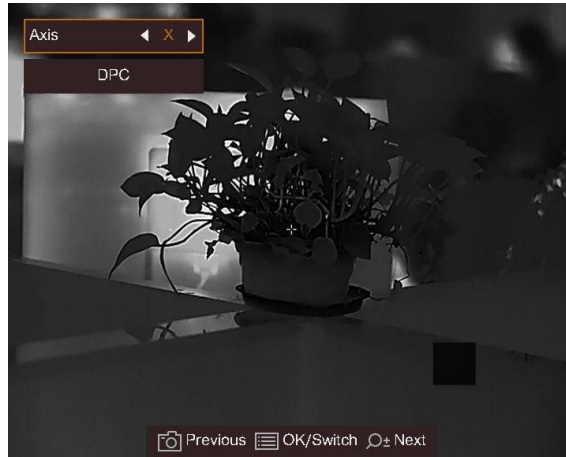


Figure 3-6 Correct Defective Pixel

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

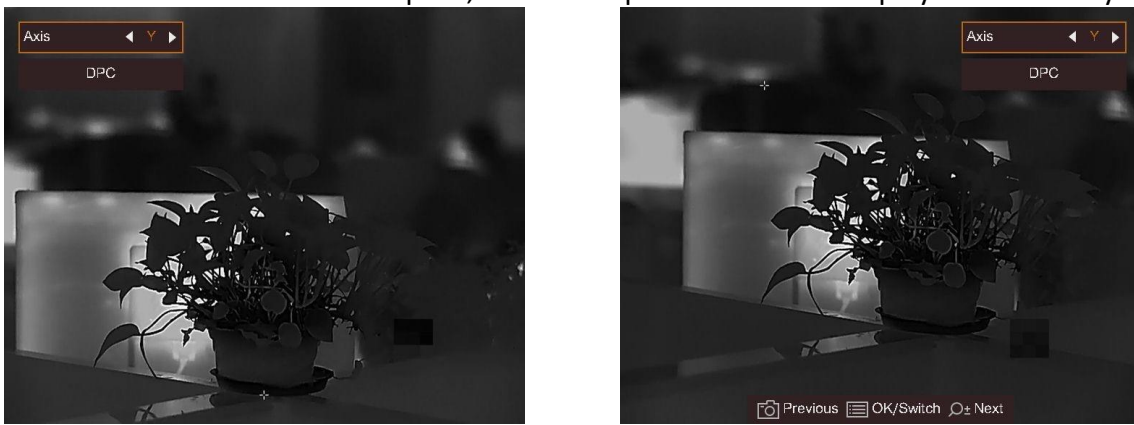


Figure 3-7 Mirror Effect





Chapter 4 Measure the Distance

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

Before You Start




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

Steps

1. Hold  to show the menu.
2. Select  and press  to go to the setting interface.
 - 1) Press  to select the target from **Deer**, **Grey Wolf**, **Brown Bear**, and **Custom**.
 - 2) Set the target height.

Note

The available height ranges from 0.1 m to 9 m.

- 3) Press  to confirm.
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 4-1 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. Select , and press  to enter the OSD setting interface.
3. Press  or  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, captures, and videos.

Steps

1. Hold  to show the menu.
2. 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

5.3 Burning Prevention

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

Steps


1. Hold  to show the menu.
2. 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, press  to capture picture.

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 main live view, hold  and start recording.



Figure 5-2 Start Recording

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

2. Hold  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. 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

 **Note**

This function varies according to different camera models.

5.6 Export Files

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

Before You Start

Turn off the hotspot function.

Steps

1. Connect the device and PC with 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 2022, go to **DCIM** → **202206** 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. Select , and press  to enter the time setting interface.
3. Press  to switch the time system, and press  and  to select the time and date to be synchronized.
4. Press  to select the hour, minute, second, year, month, or day to be synchronized, and press  or  to change the number, then 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. Select , and press  to enter the language configuration interface.
3. Press  or  to select the language as required, and press  to confirm.

6.3 Unit Settings

You can switch the unit for the distance measurement function.

Steps

1. Hold  to show the menu.
2. Select , and press  to switch the unit. **Yard** and **m** (meter) are selectable.
3. Hold the  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 and the display unit via USB to CVBS cable. Make sure the device is turned off

when connecting the cable.

Steps




1. Hold  to show the menu of device.
2. Select , and press  to turn on CVBS output.
The display unit show the device image.

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 What should I do if I forget the login password?

Reset the password after initializing the device.

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

Adjust the diopter adjustment knob until the image is clear. Refer to *Adjust Diopter*.

7.4 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.

7.5 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, 2 A) according to the IEC62368-1 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.
- Use the power adapter provided by qualified manufacturer. Refer to the product specification for detailed power requirements.

Battery

- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.

- The built-in battery type is 18650, and the battery size should be 24 mm × 72 mm. The rated voltage and capacity are 3.635 VDC/3350 mAh.
- 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.
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Dispose of used batteries according to the instructions.

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.

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 high electromagnetic radiation or dusty environments.
- 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.

Manufacture Address

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

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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 (www.hikmicrotech.com/).

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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.

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 license-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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