



Thermal Monocular THUNDER 2.0 Series

User Manual V5.5.60 202303



Contact Us

Table of Contents

Chapter 1 Overview	1
1.1 Device Description	1
1.2 Main Function	1
1.3 Appearance	1
1.3.1 Component	2
1.3.2 Button	3
Chapter 2 Preparation	4
2.1 Connect Device	4
2.2 Install Battery	4
2.2.1 Battery Instruction	4
2.2.2 Change Battery	5
2.3 Install Adapter	6
2.4 Remove Adapter	6
2.5 Power On/Off	7
2.7 Menu Description	7
2.7.1 Main Menu	7
2.7.2 Quick Menu	8
2.8 Client Software Connection	8
2.9 Firmware Status	9
2.9.1 Check Firmware Status	9
2.9.2 Upgrade Device	9
2.10 Calibrate Image	10
Chapter 3 Image Settings	12
3.1 Adjust Focus	12
3.2 Adjust Contrast	12
3.3 Adjust Tone	13
3.4 Adjust Sharpness	13
3.5 Select Scene Mode	13
3.6 Set Palettes	13
3.7 Correct Defective Pixel	15

Thermal Monocular User Manual

3.8 Flat Field Correction	16
3.9 Calibrate Image.....	16
Chapter 4 Measure Distance.....	18
Chapter 5 General Settings	19
5.1 Set OSD	19
5.2 Set Brand Logo.....	19
5.3 Adjust Display Brightness.....	20
5.4 Burning Prevention	20
5.5 Capture and Video.....	21
5.5.1 Capture Picture.....	21
5.5.2 Set Audio	21
5.5.3 Record Video	21
5.5.4 Prerecord Video.....	22
5.6 Hot Tracking.....	22
5.7 Export Files	23
5.7.1 Export Files via HIKMICRO Sight	23
5.7.2 Export Files via PC	24
Chapter 6 System Settings	25
6.1 Adjust Date	25
6.2 Adjust Time.....	25
6.3 Set Language.....	25
6.4 Set Unit	26
6.5 View Device Information	26
6.6 Restore Device.....	26
Chapter 7 Frequently Asked Questions	27
7.1 Why is the monitor off?	27
7.2 Capturing or recording fails. What's the problem?	27
7.3 Why the PC cannot identify the device?	27

Thermal Monocular User Manual

Safety Instruction.....	28
Legal Information.....	30
Regulatory Information	32

Chapter 1 Overview

1.1 Device Description

HIKMICRO THUNDER 2.0 Thermal Monocular featuring high thermal sensitivity ensures perfect detail recognition even in the hardest weather conditions when the object and background are with minimal temperature difference. With an extended operation time, the monocular is mainly applied to scenarios such as hiking, hunting, searching and rescuing.

1.2 Main 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.

Audio & Recoil-activated Recording

The device can record audio and support recoil-activated recording.

Image Correction

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

Image Calibration

You can adjust the image window position as required. See *Calibrate Image*.

Brightness & Tone Adjustment

You can adjust the brightness and tones as needed.

Client Software Connection

The device can capture snapshots, record videos, export files, set parameters, and upgrade firmware by HIKMICRO Sight after being connected to your phone via hotspot.

1.3 Appearance

There are two types of thermal monocular cameras. Please take the actual product for reference.

1.3.1 Component

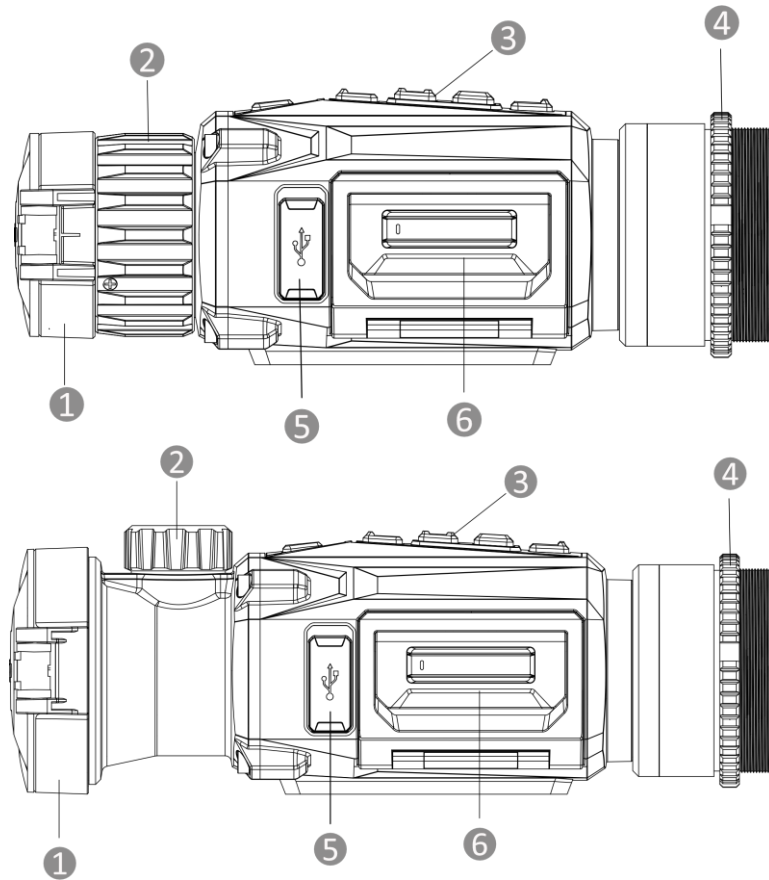


Figure 1-1 Components of Thermal Monocular

Table 1-1 Component Description

No.	Component	Function
1	Lens Cover	Protects the lens.
2	Focus Ring/Knob	Adjusts focus to obtain clear targets.
3	Buttons	To set functions and parameters.
4	Fixing Ring	Holds the adapter in place.
5	Type-C Interface	To connect the device to power supply or transmit data with a type-C cable.
6	Battery Compartment	For holding the battery.

1.3.2 Button

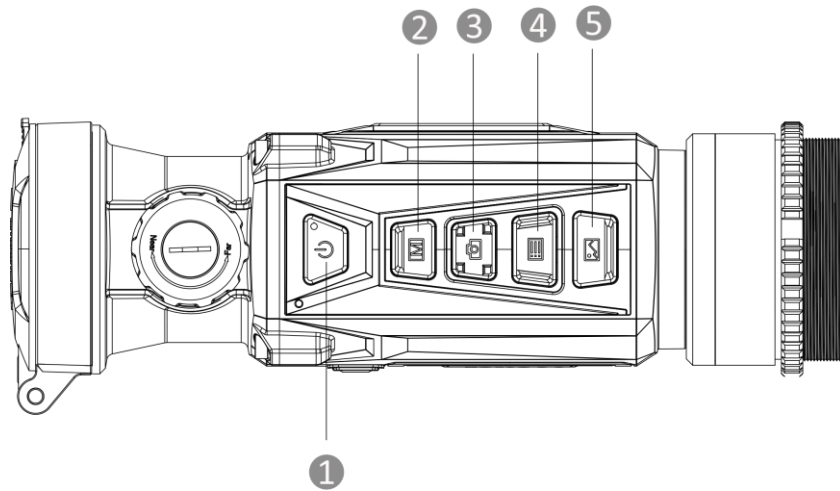


Figure 1-2 Buttons on Device

Table 1-2 Function of Buttons

No	Icon	Button	Description
1		Power	<ul style="list-style-type: none"> ● Press: Standby mode/Wake up device ● Hold: Power on/off <p>Note: Power indicator status is as follows:</p> <ul style="list-style-type: none"> ● Flashing Red & Green: Error occurred. ● Solid Red: Device is properly charged. ● Solid Green: Device is fully charged. ● Off: Device is not charged.
2		Mode	<ul style="list-style-type: none"> ● Press: Switch palettes ● Hold: Correct non-uniformity of display (FFC)
3		Capture	<ul style="list-style-type: none"> ● Press: Capture snapshot ● Hold: Start/Stop recording video
4		Menu	<p>Non-Menu Mode:</p> <ul style="list-style-type: none"> ● Press: Enter the quick menu ● Hold: Enter the main menu <p>Menu Mode:</p> <ul style="list-style-type: none"> ● Press: Confirm/Set parameters ● Hold: Exit the menu
5		Image	Press: Clear/Display all OSD information on live view interface.

Chapter 2 Preparation

2.1 Connect Device

Before You Start

- Remove the battery from the device before connecting to your PC, or it may cause device damage.
- 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. Turn on the device and make sure the hotspot function is turned off.
2. Lift the cable interface cover.
3. 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.

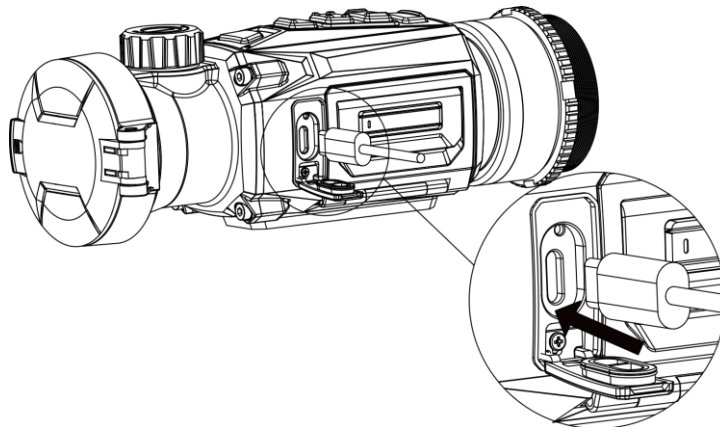


Figure 2-1 Cable Connection

2.2 Install Battery

2.2.1 Battery Instruction

- The device supports removable li-ion battery. The charging limited voltage of the battery is 4.2 V. The Battery capacity is 3.6 V/4.4 Ah (15.84 Wh).
- Charge the battery for more than 4 hours before first use.
- Please purchase the batteries recommended by the manufacturer if necessary.
- Remove the battery if the device is not used for a long time.

2.2.2 Change Battery

Insert the battery into and remove it from the battery compartment.

Before You Start

Make sure to power off the device before removing the battery.

Steps

1. Lift the battery compartment cover handle, and pull the battery compartment cover outwards.

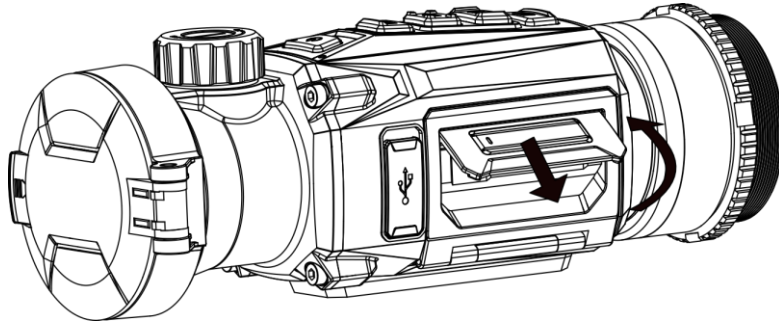


Figure 2-2 Pull Out the Battery Compartment Cover

2. Push the battery latch aside (as the arrow shows), and release the battery.

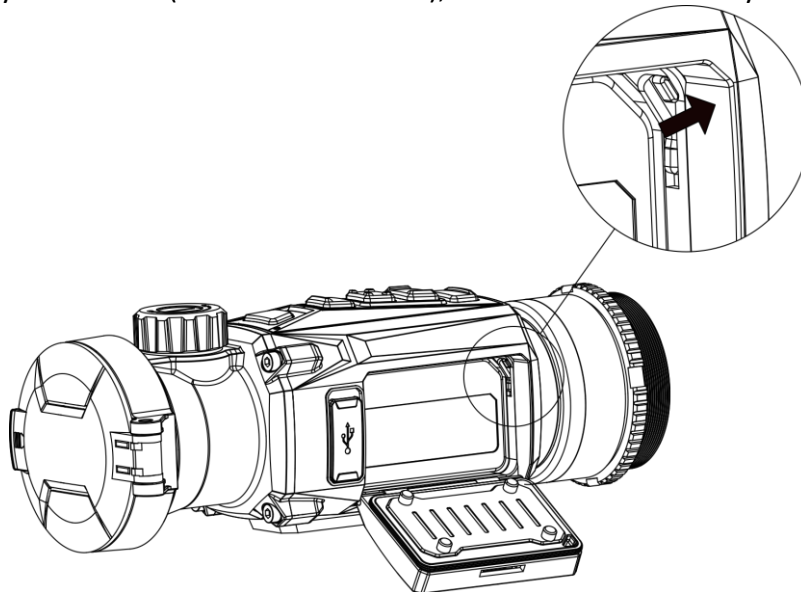


Figure 2-3 Unlatch the Battery Latch

3. Insert the battery into the battery compartment. The latch locks the battery in place when the battery is fully inserted.

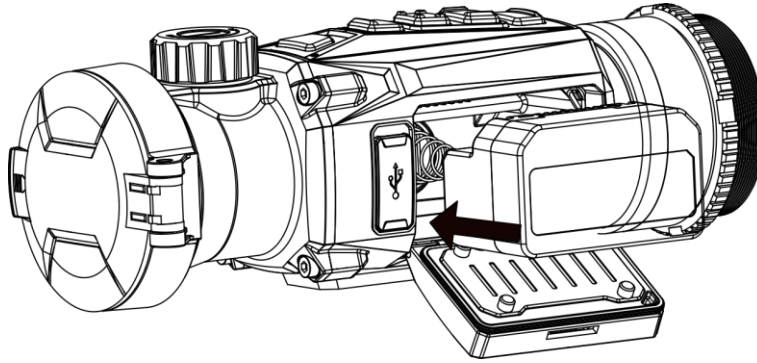


Figure 2-4 Insert the Battery

4. Push the battery compartment cover until it clicks into the locked position.

2.3 Install Adapter

Steps

1. Rotate the adapter clockwise until it tightened securely.

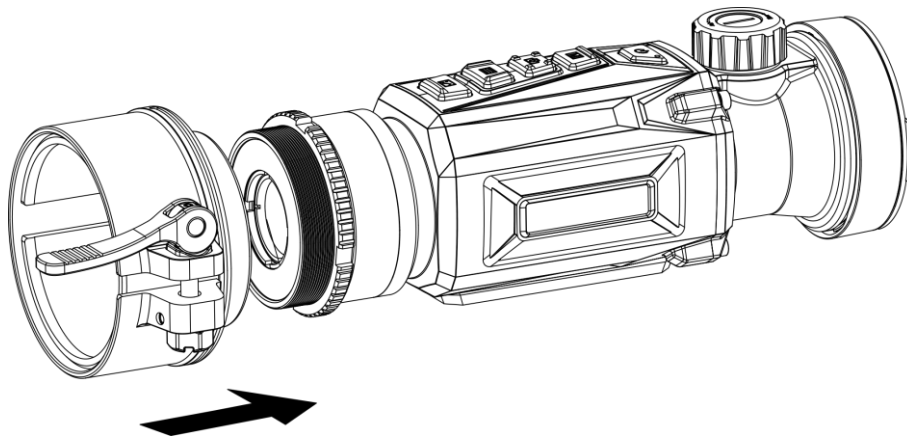


Figure 2-5 Install Adapter

2. Use the wrench in the package to tighten the fixing ring until the adapter is fixed on the device.

 **Note**

- The adapter is not included in the package. Please purchase it separately as needed.
 - The thread size is M52 × 0.75 mm. Purchase the adapter recommended by the manufacturer.
-

2.4 Remove Adapter

Steps


1. Rotate the adapter counterclockwise to loosen it.
2. Remove the adapter carefully.

2.5 Power On/Off

Power On

When the battery is sufficiently charged, hold  for about 1 second to power on the device.

Power Off

When the device is turned on, hold  for about 1 second 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

Set the auto power off time for your device, and then the device will automatically shut down as the set time.

Steps

1. Hold  to show the main menu.
 2. Go to  **General Settings**, and select .
 3. Press  or  to select the auto power off time as required, and press  to confirm.
 4. Hold  to save and exit.
-

Note

- See the battery icon for the battery status.  means the battery is fully charged,  means that the battery is low, and  means the battery charging is abnormal.
 - 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.
-

2.7 Menu Description

2.7.1 Main Menu

When the device is turned on, hold  to enter or exit the main menu.





- Press  to move up.
 - Press  to move down.
 - Press  to confirm.
-



Figure 2-6 Main Menu

2.7.2 Quick Menu

In the live view mode, press  to show the quick menu. You can set parameters such as **Brightness** and **Contrast** in the quick menu.

Note

This function may vary according to different models.

2.8 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. Search the HIKMICRO Sight app 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

2. Hold  to show the main menu.
3. Press  or  to select , and press  to enable hotspot.
4. Turn on the WLAN of your phone and connect to the hotspot.
 - Hotspot Name: HIKMICRO_Serial No.

- Hotspot Password: Serial No. (The last 9 numbers of serial No.)
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.
-

2.9 Firmware Status

2.9.1 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.

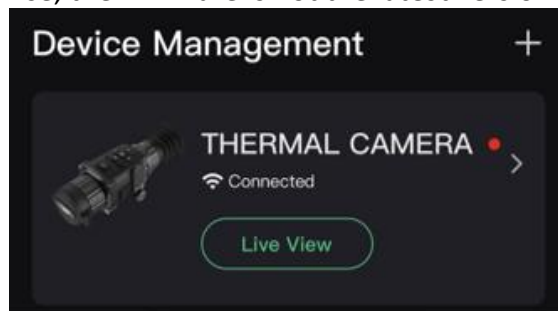


Figure 2-7 Check Firmware Status

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

2.9.2 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.

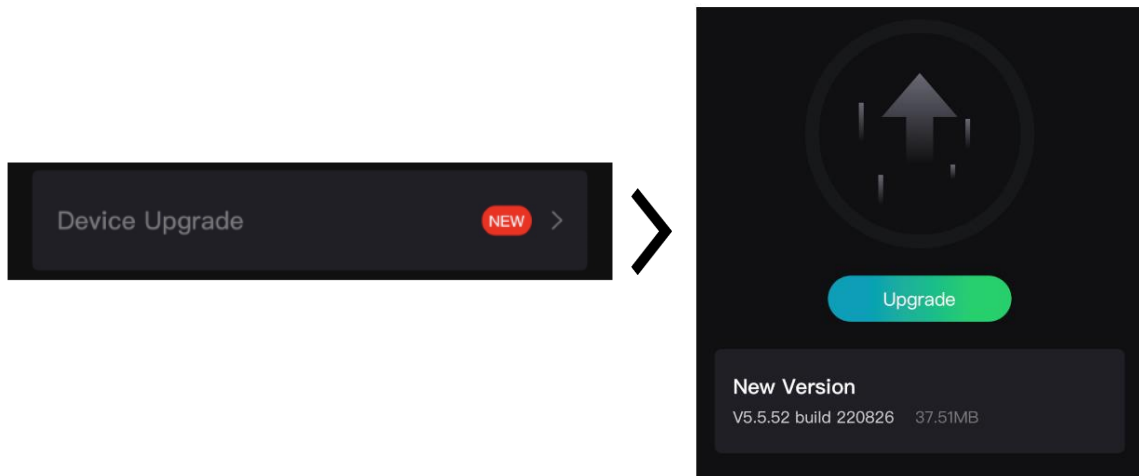



Figure 2-8 Upgrade Firmware

Upgrade Device via PC

Before You Start

- Please download the upgrade package first.
- Make sure the hotspot function is turned off.
- Remove batteries from the device before connecting to your PC.
- 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.

2.10 Calibrate Image

You can adjust and save the position of the image window for different users. See *Calibrate Image*

for detailed instructions.

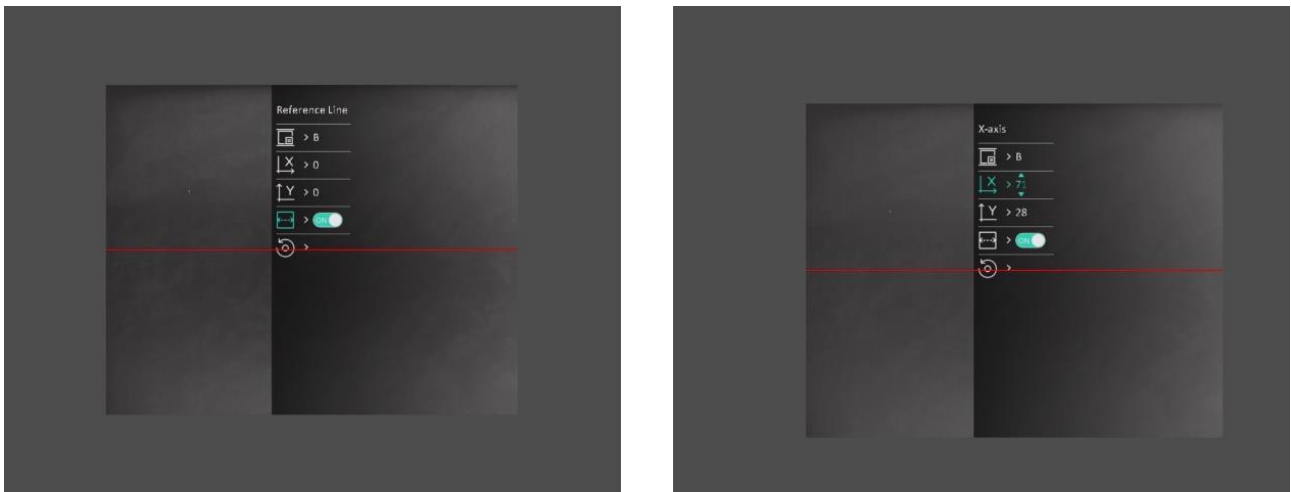


Figure 2-9 Image Calibration Effect

Chapter 3 Image Settings

3.1 Adjust Focus

Steps

1. Power on the device.
2. Open the lens cover.
3. Hold the device and make sure the eyepiece covers your eye.
4. Adjust the focus ring/knob until the image is clear.

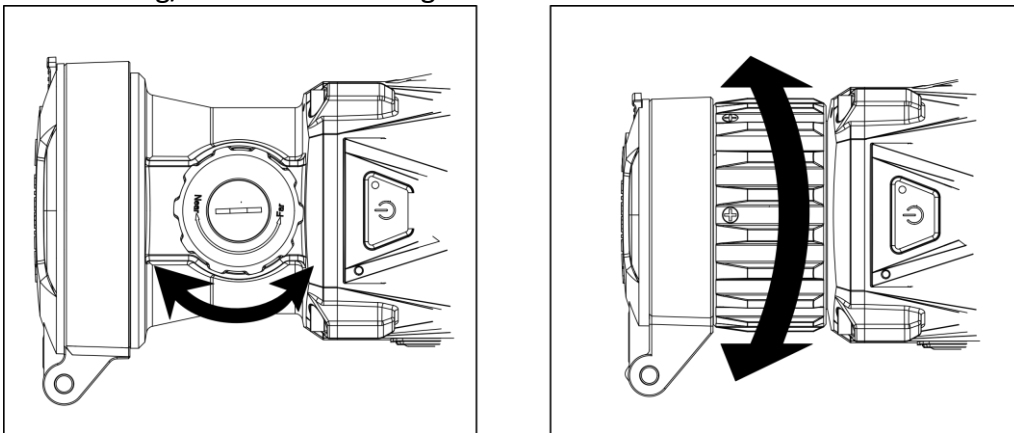








Figure 3-1 Adjust Focus

Note

When adjusting focus, DO NOT touch the surface of lens to avoid smearing the lens.






3.2 Adjust Contrast

Steps

1. In the live view mode, press  to show the quick menu.
2. Select  and press  to confirm.
3. Press  or  to adjust contrast.
4. Hold  to exit and save.






3.3 Adjust Tone

Steps

1. In the main menu, select  and press  to confirm.
2. Press  or  to select a tone. **Warm** and **Cold** can be selected.
3. Hold  to exit and save.

3.4 Adjust Sharpness








Steps

1. In the main menu, select  and press  to confirm.
2. Press  or  to adjust contrast.
3. Hold  to exit and save.


3.5 Select Scene Mode

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

Steps

1. Hold  to go to the main menu.
2. Select  and press  to confirm.
3. Press  or  to select scene modes, and press  to confirm.
 - **Recognition**: Recognition mode is recommended in normal scene.
 - **Jungle**: Jungle mode is recommended in hunting environment.
4. Hold  to save settings and exit.

3.6 Set Palettes

You can select different palettes to display the same scene in different effects. Press  in the live view mode 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 Correct Defective Pixel

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

Steps

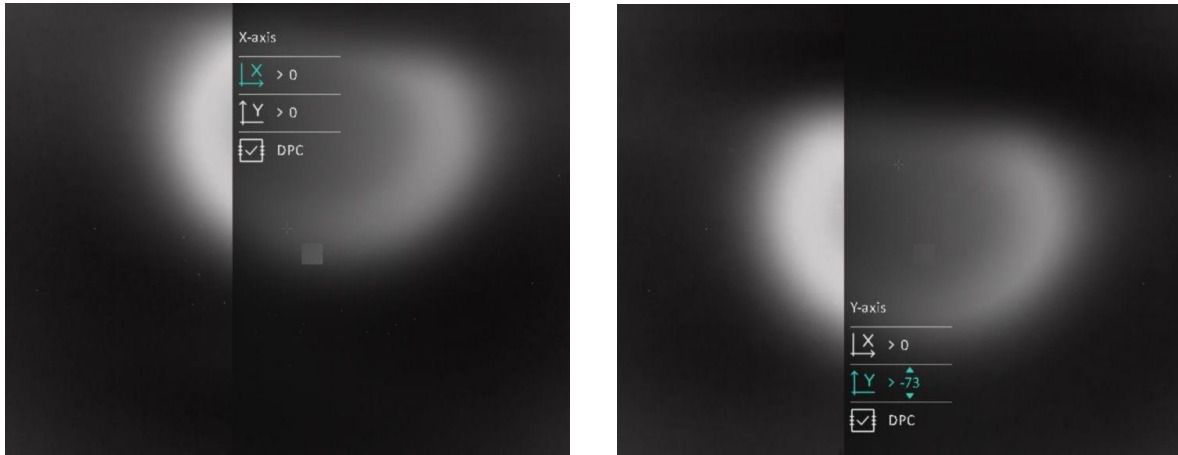
1. Hold  to show the main menu.
2. Go to  **Function Settings**, and select .
3. Press  to enter the DPC setting interface.
4. Press  or  to select the **X** or **Y** axis, and press  to confirm. Press  or  to set the coordinates until the cursor reaches the dead pixel. If you select , the cursor moves left and right; if you select , the cursor moves up and down.
5. Select , and press  to correct the dead pixel.
6. Hold  to save and exit.

Note

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



- If the screen OSD blocks the defective pixel, move the cursor to reach the defective pixel, then the device performs mirror display automatically as shown in the figures below.



3.8 Flat Field Correction

This function can correct non-uniformity of display.

Steps

1. Hold to show the main menu.
2. Go to **Function Settings**, and select **Image Calib**.
3. Press and to switch the FFC modes, and press to confirm.
 - **Manual:** Hold in live view to correct 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, and then hold in live view to correct non-uniformity of display.
4. Hold to save the settings and exit.

3.9 Calibrate Image

You can adjust and save the position of the image window for different users.

Steps

1. Hold to show the main menu.
2. Go to **Function Settings**, and select .
3. Select , and press to switch calib. profiles. You can set 5 calib. profiles.
4. Select , and press to enable reference line. Make sure the reference line is horizontal in the screen.
5. Select or , and press to confirm. Press and to set the coordinates until the window reaches the target position.

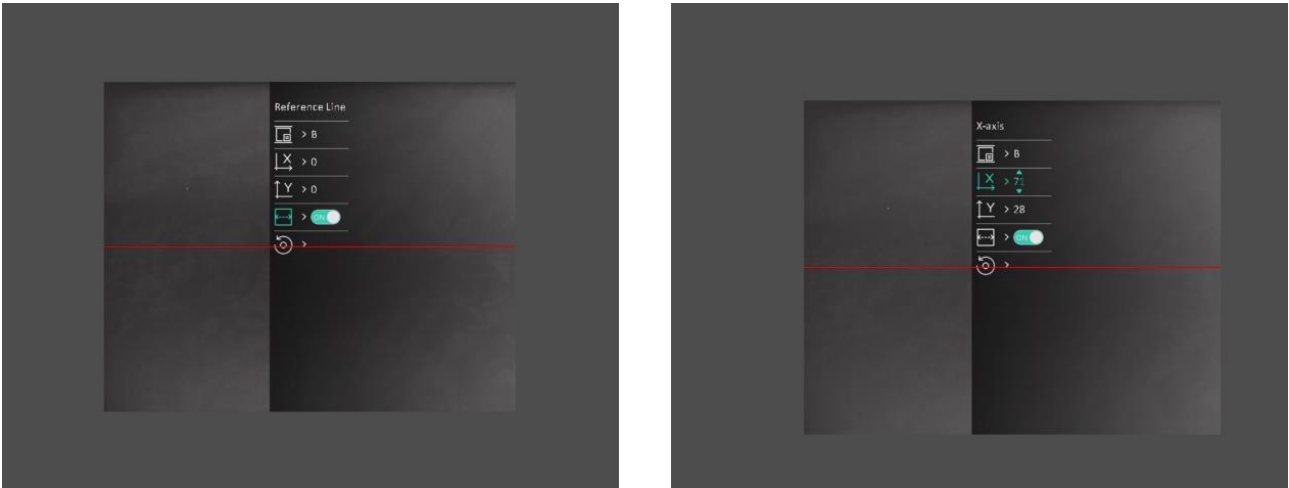







Figure 3-2 Actual Image Calibration Effect

6. (Optional) Press  or  to select , and press  to confirm. Press **OK** to restore the view to default position, and **CANCEL** to return to the setting interface according to the prompt.

 **Note**

The default position of image window may not be exactly at zero ($X = 0$, $Y = 0$). This is caused by slight individual differences of optical components, and it is a normal phenomenon.

7. Hold  to exit image calibration.












Chapter 4 Measure 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 main menu.
2. Press  or  to select , and press  to enter the measurement interface.
 - 1) Press  to show the setting interface. Press  or  to select the target from **Deer**, **Grey Wolf**, **Brown Bear**, and **Custom**, and press  to confirm.
 - 2) Press  or  to change the number, and set the target height.

Note

The available height ranges from 0.1 m to 9.0 m.

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

Result

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



Figure 4-1 Measurement Result









Chapter 5 General Settings

You can manually record video or capture picture when displaying live view.


5.1 Set OSD

You can choose whether to display the OSD information on the live view interface.

Steps

1. Hold  to show the main menu.
2. Go to  **Function Settings**, and select .
3. Press  to enable **OSD** first. You can press  and  to select, and press  to display or hide the necessary OSD information.
 - **Date**: Display or hide date information.
 - **Time**: Display or hide time information.
4. Hold  to save and exit.






Note

You can also press  in the live view mode to display or hide all the OSD information quickly.

5.2 Set Brand Logo

You can add brand logo on the live view interface.

Steps

1. Hold  to show the main menu.
2. Go to  **Function Settings**, and select .
3. Press  to enable or turn off **Brand Logo**.
4. Hold  to save the settings and exit.

Result

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

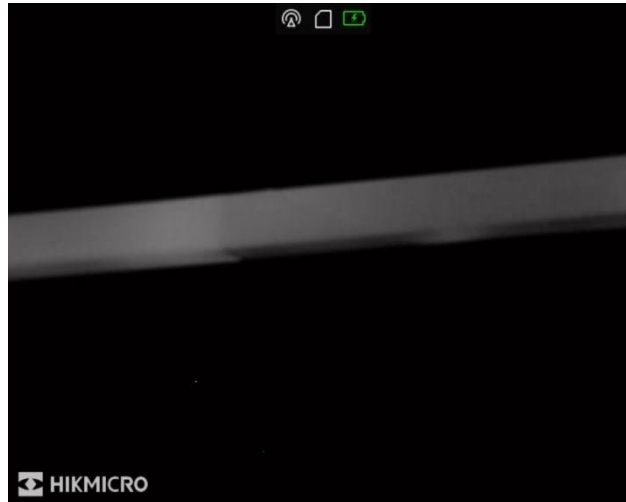


Figure 5-1 Brand Logo Display







 **Note**

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

5.3 Adjust Display Brightness

You can adjust the display brightness of the screen.






Steps

1. In the live view mode, press  to show the quick menu.
2. Select , and press  to confirm.
3. Press  and  to adjust display brightness.
4. Hold  to save settings and exit.

5.4 Burning Prevention


This function can prevent the detector of the thermal channel from being burned. When you enable this function, the shield will close if the grey scale of the detector reaches a certain value. Avoid direct sunlight and enable the Burning Prevention function to reduce the risk of sensor damage from the heat.

Steps

1. Hold  to show the main menu.
2. Go to  **Function Settings**, and select .
3. Press  to enable or turn off the burn-prevention function.
4. Hold  to save settings and exit.

5.5 Capture and Video

5.5.1 Capture Picture

In the live view mode, 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**.

5.5.2 Set Audio

If you enable the audio function, the sound will be recorded with the video. When there is too loud noise in the video, you can turn off this function.

Steps

1. Hold  to show the main menu.
2. Press  or  to select , and press  to enable or turn off this function.
3. Hold  to save and exit.

5.5.3 Record Video

Steps



1. In the live view mode, hold  and start recording.



Figure 5-2 Record Video

2. Hold  again to stop recording.







What to do next

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

5.5.4 Prerecord Video

After enabling this function, the device can automatically record the 7 seconds before and after the recoil-activation.

Steps

1. Hold  to show the main menu.
2. Press  or  to select .
3. Press  to switch on/off this function.
4. Hold  to save and exit.

Note

If you activate recoils continuously, the device will record the 7 seconds before the first recoil until the 7 seconds after the last recoil.

What to do next

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

5.6 Hot Tracking

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

Steps

1. Hold  to show the main menu.
2. Press  or  to select , and press  to mark the spot of highest temperature.
3. Hold  to save settings and exit.

Result



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



Figure 5-3 Hot Tracking

5.7 Export Files

5.7.1 Export Files via HIKMICRO Sight

You can access device albums and export files to your phone via HIKMICRO Sight.

Before You Start

Install HIKMICRO Sight on your mobile phone.

Steps

1. Open HIKMICRO Sight and connect your device to the app. See *Client Software Connection*.
2. Tap **Media** to access device albums.

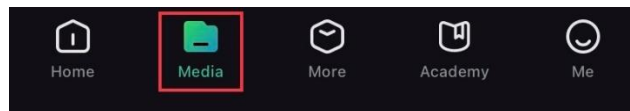


Figure 5-4 Access Device Albums

3. Tap **Local** or **Device** to view the photos and videos.
 - **Local**: You can view the previous files on the app.
 - **Device**: You can view the files of the current device.

Note

The photos or videos may not show in **Device**. Please pull down to refresh the page.

4. Tap to select a file, and tap **Download** to export the file to your local phone albums.



Figure 5-5 Export Files

Note

- Go to **Me** → **About** → **User Manual** on the app to see more detailed operations.
- You can also access device albums by tapping bottom left icon in the live view interface.

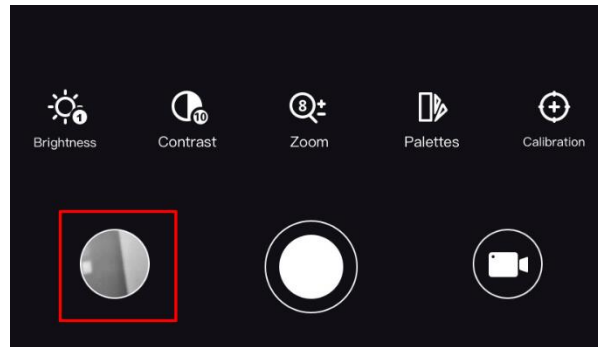


Figure 5-6 Access Device Albums

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

5.7.2 Export Files via PC

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

Before You Start

- Turn off 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.
- Remove batteries from the device before connecting to your PC, or it may cause device damage.

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 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 turned off.
 - When you connect the device to PC for the first time, it installs the drive program automatically.
-

Chapter 6 System Settings










6.1 Adjust Date

Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. Press  to enter the configuration interface.
4. Press  to select the 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 Adjust Time









Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. Press  to enter the configuration interface.
4. Press  to select the hour, minute, second to be synchronized, and press  or  to change the number, then press  again to finish the setting.
5. Hold  to save settings and exit.

6.3 Set Language

You can select the device language in this function.







Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. Press  to enter the language configuration interface.
4. Press  or  to select the language as required, and press  to confirm.
5. Hold  to save settings and exit.

6.4 Set Unit





You can switch the unit for distance measurement.

Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. Press  or  to select the unit. Yard and m (meter) are selectable.
4. Hold  to save settings and exit.





6.5 View Device Information

Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. Press  to view the device information such as version and serial No.

6.6 Restore Device

Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. 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 Capturing or recording fails. What's the problem?

Check the following items.

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

7.3 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.

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

- Please purchase the charger by yourself. Input voltage should meet the Limited Power Source (5 VDC, 2A) according to the IEC62368 standard. Please refer to technical specifications for detailed information.
- Use the power adapter provided by qualified manufacturer. Refer to the product specification for detailed power requirements.
- 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.
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.

- The device supports removable li-ion battery. The charging limited voltage of the battery is 4.2 V. The Battery capacity is 3.6 V/4.4 Ah (15.84 Wh).
- Batteries of improper size cannot be installed, and may cause abnormal shutdown.
- The battery cannot be charged with external power source directly.
- 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 place the battery in the reach of children.

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.
- It is recommended to reboot the device every 2 hours when using it to ensure the device performance.

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 from 5% to 95%.
- 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.
- Place the device in a dry and well-ventilated environment.
- 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.

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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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 (www.hikmicrotech.com).

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

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Regulatory Information

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

EU/UK Compliance 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 2014/30/EU (EMCD), Directive 2014/35/EU (LVD), Directive 2011/65/EU (RoHS), Directive 2014/53/EU.



This product and - if applicable - the supplied accessories too are marked with "UKCA" and comply therefore with the following directives: Radio Equipment Regulations 2017, Electromagnetic Compatibility Regulations 2016, Electrical Equipment (Safety) Regulations 2016, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

Frequency Bands and Power (for CE/UKCA)

The frequency bands and modes and the nominal limits of transmitted power (radiated and/or conducted) applicable to this radio device are the following: Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz), 20 dBm.

For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements

For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power 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.



According to the Waste Electrical and Electronic Equipment Regulations 2013: Products marked with this symbol cannot be disposed of as unsorted municipal waste in the United Kingdom. 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.

According to the Batteries and Accumulators (Placing on the Market) Regulations 2008 and the Waste Batteries and Accumulators Regulations 2009: This product contains a battery that cannot be disposed of as unsorted municipal waste in the United Kingdom. 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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