



# Thermal Image Scope THUNDER ZOOM 2.0 Series

User Manual V5.5.68 202308



Contact Us

## Table of Contents

<b>Chapter 1 Overview</b> .....	<b>1</b>
<b>1.1 Device Description</b> .....	<b>1</b>
<b>1.2 Main Function</b> .....	<b>1</b>
<b>1.3 Appearance</b> .....	<b>1</b>
<b>1.3.1 Component</b> .....	<b>2</b>
<b>1.3.2 Button Description</b> .....	<b>3</b>
<b>Chapter 2 Preparation</b> .....	<b>4</b>
<b>2.1 Cable Connection</b> .....	<b>4</b>
<b>2.2 Install Battery</b> .....	<b>4</b>
<b>2.2.1 Battery Instruction</b> .....	<b>4</b>
<b>2.2.2 Change Battery</b> .....	<b>4</b>
<b>2.3 Install Rail</b> .....	<b>5</b>
<b>2.4 Power On/Off</b> .....	<b>6</b>
<b>2.5 Menu Description</b> .....	<b>7</b>
<b>2.5.1 Main Menu</b> .....	<b>7</b>
<b>2.5.2 Quick Menu</b> .....	<b>7</b>
<b>2.6 Client Software Connection</b> .....	<b>7</b>
<b>2.7 Firmware Status</b> .....	<b>8</b>
<b>2.7.1 Check Firmware Status</b> .....	<b>8</b>
<b>2.7.2 Upgrade Device</b> .....	<b>8</b>
<b>2.8 Zeroing</b> .....	<b>9</b>
<b>Chapter 3 Image Settings</b> .....	<b>11</b>
<b>3.1 Adjust Diopter</b> .....	<b>11</b>
<b>3.2 Adjust Focus</b> .....	<b>11</b>
<b>3.3 Switch FOV</b> .....	<b>12</b>
<b>3.4 Set Brightness</b> .....	<b>12</b>
<b>3.5 Adjust Contrast</b> .....	<b>12</b>
<b>3.6 Adjust Tone</b> .....	<b>13</b>
<b>3.7 Adjust Sharpness</b> .....	<b>13</b>
<b>3.8 Select Scene Mode</b> .....	<b>13</b>
<b>3.9 Set Palettes</b> .....	<b>13</b>

# Thermal Image Scope User Manual

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3.10 Correct Defective Pixel .....	15
3.11 Flat Field Correction .....	16
3.12 Set Picture in Picture Mode .....	16
3.13 Adjust Digital Zoom .....	17
<b>Chapter 4 Zeroing.....</b>	<b>18</b>
4.1 Select Zeroing Profile .....	18
4.2 Correct Reticle .....	18
4.3 Set Reticle Style .....	20
<b>Chapter 5 Measure Distance.....</b>	<b>21</b>
<b>Chapter 6 General Settings .....</b>	<b>22</b>
6.1 Set OSD .....	22
6.2 Set Brand Logo.....	22
6.3 Burning Prevention .....	22
6.4 Hot Tracking.....	23
6.5 Capture and Video.....	23
6.5.1 Capture Picture.....	23
6.5.2 Set Audio .....	24
6.5.3 Record Video .....	24
6.5.4 Prerecord Video.....	24
6.6 Export Files .....	25
6.6.1 Export Files via HIKMICRO Sight .....	25
6.6.2 Export Files via PC .....	26
<b>Chapter 7 System Settings .....</b>	<b>27</b>
7.1 Adjust Date .....	27
7.2 Adjust Time.....	27
7.3 Set Language.....	27
7.4 Set Unit .....	27
7.5 View Device Information .....	28
7.6 Restore Device.....	28
<b>Chapter 8 Frequently Asked Questions .....</b>	<b>29</b>
8.1 Why is the monitor off? .....	29
8.2 The image is not clear, how to adjust it? .....	29

# Thermal Image Scope User Manual

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8.3 Capturing or recording fails. What's the problem? .....	29
8.4 Why the PC cannot identify the device? .....	29
Safety Instruction .....	30
Legal Information .....	32
Regulatory Information .....	34

# Chapter 1 Overview

## 1.1 Device Description

HIKMICRO THUNDER ZOOM 2.0 Thermal Image Scope featuring a switchable dual FOV meets different observation requirements. The extra-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 scope is mainly applied to scenarios such as hunting.

## 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.

### Large Digital Zoom

Digital zoom up to 8× offers better focus on small target from a far distance.

### Zeroing

The reticle helps you to aim at the target fast and accurately. See **Zeroing**.

### 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.

### Brightness & Tone Adjustment

You can adjust the brightness and tones as needed.

### Switchable Dual FOV

The dual FOV meets different observation requirements. Rotate the FOV switch ring to switch the FOV.

### 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

The appearance of the thermal image scope may vary. Please take the actual product for

reference.

### 1.3.1 Component

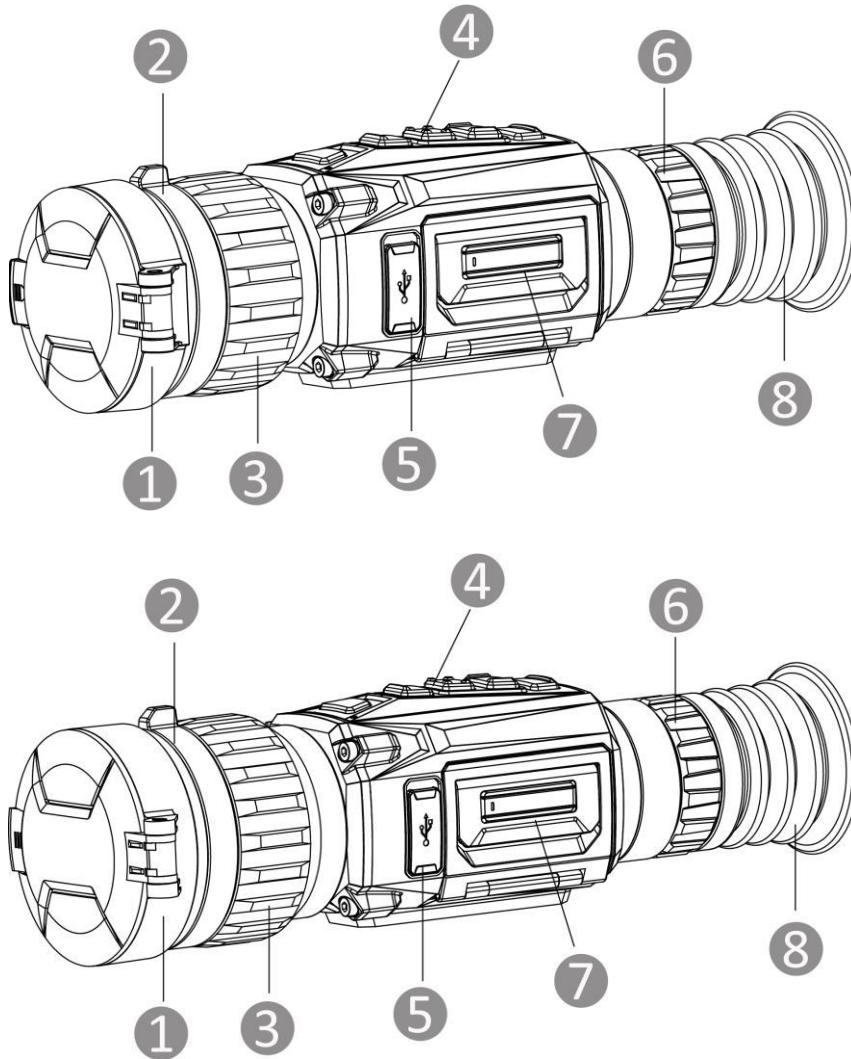


Figure 1-1 Appearance

Table 1-1 Appearance Description






No.	Component	Function
1	Lens Cover	Protects the lens.
2	FOV Switch Ring	Switches the field of view of the device
3	Focus Ring	Adjusts focus to obtain clear targets.
4	Buttons	To set functions and parameters.
5	Type-C Interface	To connect the device to power supply or transmit data with a type-C cable.
6	Diopter Adjustment Ring	Adjusts the dioptic setting.

7	Battery Compartment	For holding the battery.
8	Eyepiece	The piece placed closest to the eye to view the target.

### 1.3.2 Button Description

The button functions of the device is shown in the table below.

Table 1-2 Button and Interface Description

No.	Icon	Button	Description
1		Power	<ul style="list-style-type: none"> <li>● Press: Standby mode/wake up device</li> <li>● Hold: Power on/off</li> </ul> <p><i>* The power indicator stays solid red when the device is on.</i></p>
2		Mode	<ul style="list-style-type: none"> <li>● Press: Switch palettes</li> <li>● Hold: Correct non-uniformity of display (FFC)</li> </ul>
3		Capture	<ul style="list-style-type: none"> <li>● Press: Capture snapshot</li> <li>● Hold: Start/Stop recording video</li> </ul>
4		Menu	<p>Non-Menu Mode:</p> <ul style="list-style-type: none"> <li>● Press: Enter the quick menu</li> <li>● Hold: Enter the main menu</li> </ul> <p>Menu Mode:</p> <ul style="list-style-type: none"> <li>● Press: Confirm/Set parameters</li> <li>● Hold: Exit quick menu and main menu</li> </ul>
5		Zoom	<ul style="list-style-type: none"> <li>● Press: Switch digital zoom</li> <li>● Hold: Enable/Disable PIP mode</li> </ul>

## Chapter 2 Preparation

### 2.1 Cable Connection

Connect the device and power adaptor with a type-C cable to power on the device. Alternatively, connect the device and PC to export files.

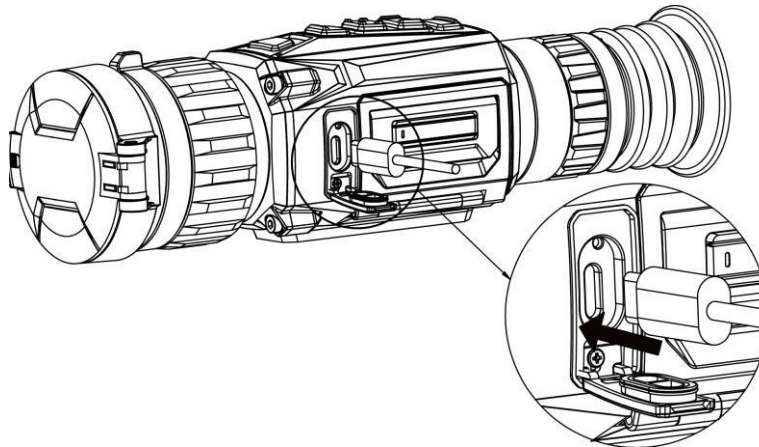


Figure 2-1 Cable Connection

### 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.



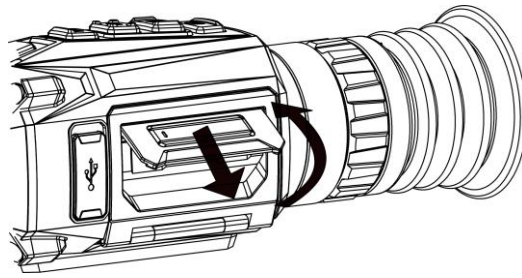


Figure 2-2 Pull Out the Battery Compartment Cover

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

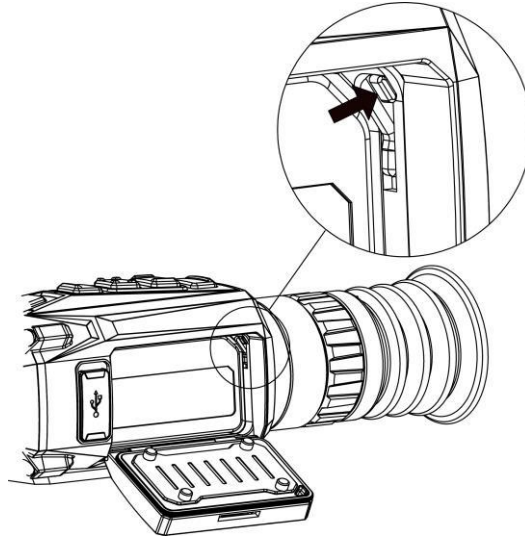


Figure 2-3 Unlatch the Battery Latch

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

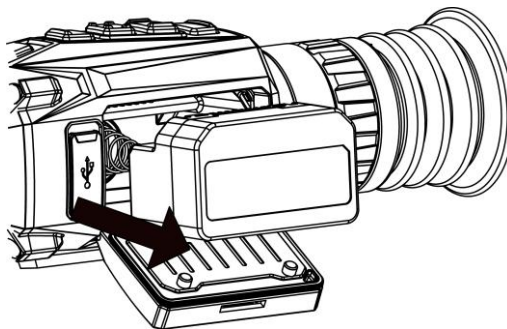


Figure 2-4 Insert the Battery

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

## 2.3 Install Rail

### Before You Start

- Turn off the device first.
- Use the lint-free cloth to clean the device base and the rail.
- The rail is not included in the package. Please purchase it separately.

## Steps

1. Align the installation holes on the device and the rail.
2. Insert the screws, and tighten them.

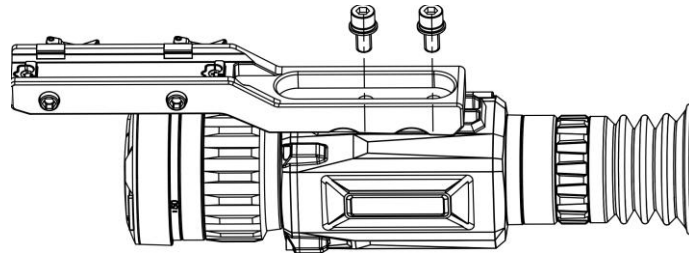


Figure 2-5 Insert Screws

3. Tighten the screws to secure the rail on the device.

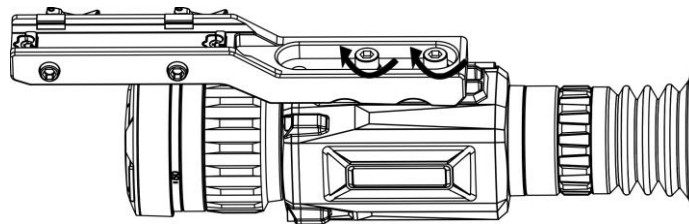



Figure 2-6 Secure the Device

## 2.4 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.

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
### 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.
4. Hold  to save and exit.

## Note

- 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.
- 

## 2.5 Menu Description

### 2.5.1 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 2-7 Main Menu

### 2.5.2 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 varies according to different camera models.

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## 2.6 Client Software Connection

Connect the device to the HIKMICRO Sight app via hotspot, then you can capture picture, record

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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



iOS

2. Hold  to show the menu of device.
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.
- 

## 2.7 Firmware Status

### 2.7.1 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.
3. (Optional) If the firmware is not the latest version, upgrade the device. See **Upgrade Device**.

### 2.7.2 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.

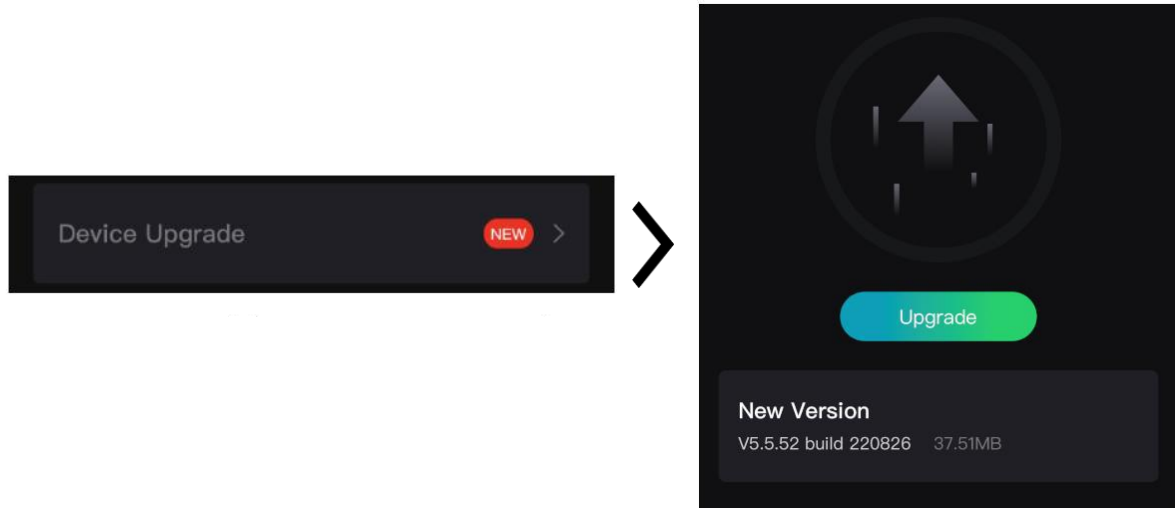


Figure 2-8 Upgrade Firmware

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### Note

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


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## Upgrade Device via PC

### Before You Start

Please get the upgrade package first.

### 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.

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### Note

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

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## 2.8 Zeroing

You can enable the reticle to view the position of the target. The functions such as **Freeze** and

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**Zoom** help to adjust the reticle more accurately. See **Zeroing** for detailed instructions.

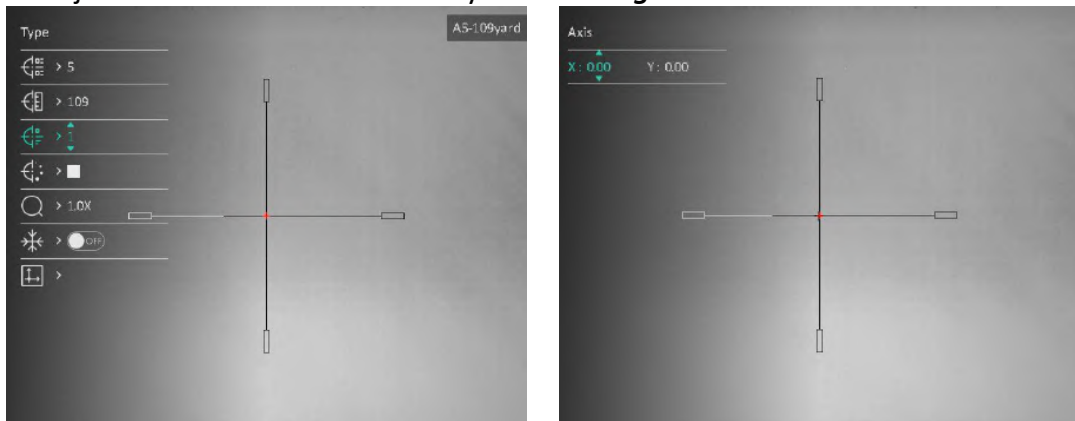


Figure 2-9 Zeroing

## Chapter 3 Image Settings

### 3.1 Adjust Diopter

#### Steps

1. Power on the device.
2. Hold the device and make sure the eyepiece covers your eye.
3. Adjust the diopter adjustment ring until the OSD text or image is clear.

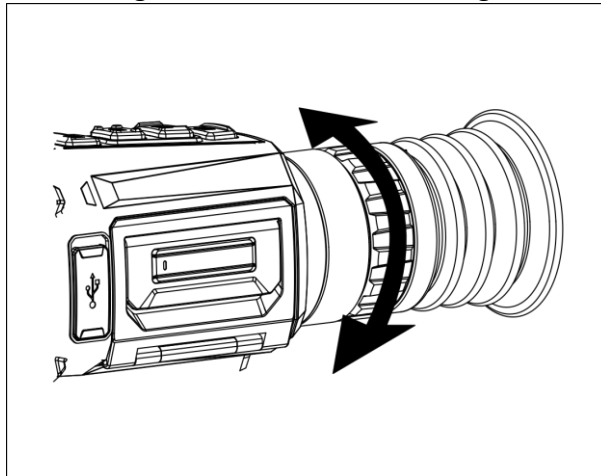


Figure 3-1 Adjust Diopter

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#### Note

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

---

### 3.2 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.

---

#### Note

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

---

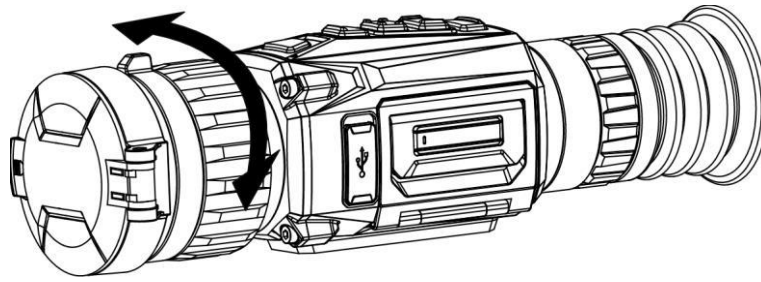


Figure 3-2 Adjust Focus

### 3.3 Switch FOV

Rotate the FOV switch ring to switch the FOV of the lens.

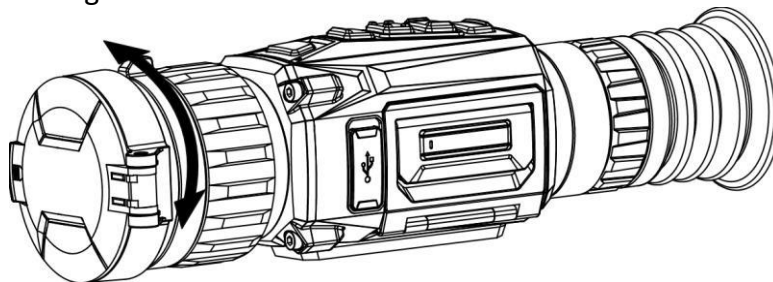








Figure 3-3 Switch FOV

### 3.4 Set 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.

### 3.5 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.








## 3.6 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.

## 3.7 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.


## 3.8 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 switch scene modes.
  - **Recognition**: Recognition mode is recommended in normal scene.
  - **Jungle**: Jungle mode is recommended in hunting environment.
4. Hold  to save settings and exit.

## 3.9 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.



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

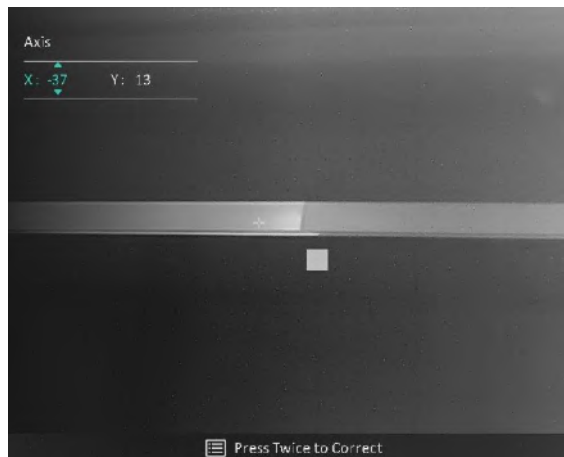


Figure 3-4 Correct Defective Pixel

---

#### Note










If the screen OSD blocks the defective pixel, the OSD will be mirrored automatically as shown in the figures below.



## 3.11 Flat Field Correction


The image correction 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.



---

### Note

- You will hear a click and the image will freeze for a second when the device performs FFC.
  - You can also hold  to perform FFC in auto FFC mode.
- 

## 3.12 Set Picture in Picture Mode

### Steps

1. In the live view mode, hold  to enable **PIP**.
    - When reticle is enabled, the PIP view is the detail of reticle.
    - When reticle is not enabled, the PIP view is the detail of central part.
  2. Hold  to turn off.
- 


### Note

If digital zoom is enabled, only the PIP view zooms. The digital zoom of PIP view is 2x, 4x, and 8x.

---

### 3.13 Adjust Digital Zoom

You can zoom the image by using this function.

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

---

#### Note

This function varies according to different camera models.







---

## Chapter 4 Zeroing

### 4.1 Select Zeroing Profile

If different users use the same device, the users can configure and save the reticle settings in their respective zeroing profiles.

#### Steps

1. In the live view mode, hold  to show the main menu.
2. Select , and press  to confirm.
3. Press  or  to select a zeroing profile.
4. Hold  to save and exit.

#### Result

The right top of the image displays the reticle information. For example, A5-109 yard means you are using the No. 5 reticle in zeroing profile A, and the set distance is 109 yard.

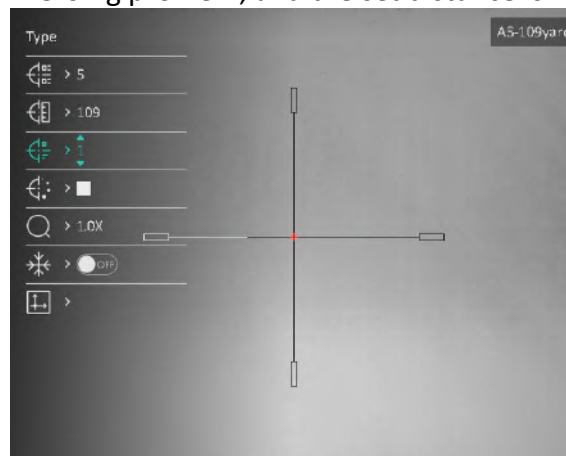


Figure 4-1 Select a Zeroing Profile

---

#### Note

There are 5 zeroing profiles in total, and you can configure 5 reticles in each zeroing profile.

---

### 4.2 Correct Reticle

Correcting the reticle can help you aim at the target with high accuracy by marking the offset between the big reticle and small reticle. Functions such as **Freeze** and **Zoom** help to adjust the reticle more accurately.

---

#### Note

You only need to zero in long focal length. When the lens is switched to short focal length, the device corrects the reticle automatically.

---

## Before You Start

Switch your lens to long focal length first.

## Steps

































1. In the main menu, press  or  to select  and press  to enter zeroing interface.
2. Select a zeroing No. You can set 5 reticles.
  - a) Press  or  to select , and press  to confirm.
  - b) Press  or  to select a zeroing No. to correct.
  - c) Press  again to confirm.
3. Set distance to target.
  - a) Press  or  to select , and press  to confirm.
  - b) Press  to switch the digit.
  - c) Press  or  to change the number, and press  again to confirm.
4. Aim the target, trigger an activation, and start the zeroing.
  - a) Press  or  to select , press  to freeze the image.
  - b) Select , and press  or  to enlarge the image until the target positions is clear enough.
  - c) Select  and press  to start zeroing. Press  to select X or Y Axis. If you select X-axis, the reticle moves left and right; if you select Y-axis, the reticle moves up and down.
  - d) Press  or  to aim the big reticle at the point of impact.
  - e) Hold  to save the settings according to the prompt.




Figure 4-2 Correct Reticle

## Note

- When you switch the zeroing No., a prompt will appear on the interface. Select OK to save

the parameters for the current reticle.

- When enabling the freeze function in reticle, you can adjust the position of the cursor on a frozen image. This function can prevent image flutter.
- 

5. Trigger an activation again to verify that verify that the aiming point aligns with the point of impact.
6. Hold  to exit the interface according to the prompt.
  - **OK:** Save the parameters and exit.
  - **CANCEL:** Exit but not save the parameters.










### 4.3 Set Reticle Style

You can select color and type for your reticle in different environments.

#### Before You Start

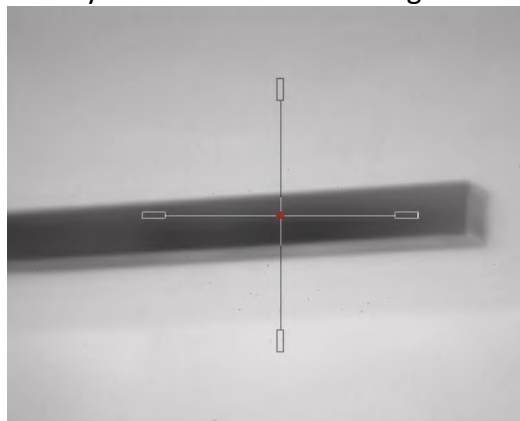
Select a zeroing No.


#### Steps

1. In the zeroing interface, press  or  to select  or  and press  to confirm.
  2. Press  or  to switch types or colors for your reticle, and press  to confirm. You can set 10 types of reticles and choose the reticle colors from **Black**, **White**, **Green**, and **Red**.
  3. Hold  to save the settings according to the prompt.
- 

#### Note

In black hot mode and white hot mode, if you set the reticle color as white or black, the colors of reticle will be inverted automatically to better aim at the target.



6. Hold  to exit the interface according to the prompt.
    - **OK:** Save the parameter and exit.
    - **CANCEL:** Exit but not save the parameters.
-














## Chapter 5 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 right top of the image displays the distance measurement result and the height of the target.



Figure 5-1 Measurement Result









## Chapter 6 General Settings

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

### 6.1 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.

### 6.2 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 disable **Brand Logo**.
4. Hold  to save the settings and exit.

#### Result

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

---

#### Note

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






---

### 6.3 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 disable the burn-prevention function.
4. Hold  to save settings and exit.

---

### Note

When the burn-prevention function is disabled, the shield should be opened if it closes.

---

## 6.4 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 6-1 Hot Tracking

## 6.5 Capture and Video

### 6.5.1 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**.

---

## 6.5.2 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 disable this function.

### Steps

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


## 6.5.3 Record Video

### Steps

1. In the live view mode, hold  and start recording.  
The left top of image displays the information of recording time.



Figure 6-2 Record Video

2. Hold  again to stop recording.

### What to do next






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

## 6.5.4 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**.

## 6.6 Export Files

### 6.6.1 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.

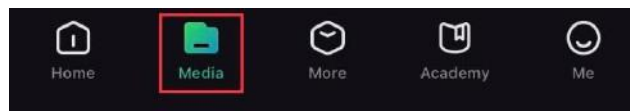


Figure 6-3 Access Device Albums

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 6-4 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.

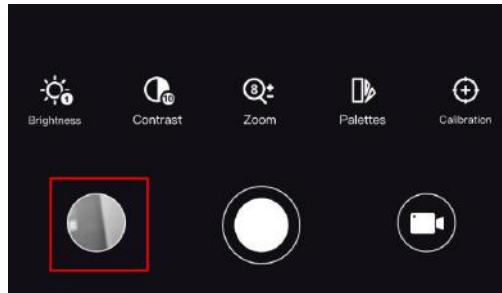


Figure 6-5 Access Device Albums

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

### 6.6.2 Export Files via PC

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

## Chapter 7 System Settings













### 7.1 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.

### 7.2 Adjust Time









#### Steps

1. Hold  to show the main menu.
2. Go to  **General Settings**, and select .
3. Press  to select hour, and press  or  to switch the clock system. 24-hour and 12-hour clocks are selectable. In 12-hour clock, press  or  to set AM or PM.
4. Press  to select hour or minute, and press  or  to change the number.
5. Hold  to save settings and exit.

### 7.3 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.

### 7.4 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.





## 7.5 View Device Information

### Steps

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

## 7.6 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 8 Frequently Asked Questions

### 8.1 Why is the monitor off?

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

### 8.2 The image is not clear, how to adjust it?

- Adjust the diopter adjustment ring until the image is clear. Refer to section Adjust Diopter.
- Adjust the focus ring until the image is clear. Refer to section Adjust Focus.

### 8.3 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.

### 8.4 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.

## 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
 <b>Danger</b>	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 <b>Caution</b>	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 <b>Note</b>	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

- The input voltage for the device should meet the Limited Power Source (5 VDC, 2 A) according to the IEC61010-1 or IEC62368 standard. Please refer to actual products and 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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### 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](http://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

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

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### EU/UK 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 2014/30/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](http://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](http://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](http://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](http://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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