

User Manual

Digital Day & Night Vision Scope

ALPEX LRF 4K SERIES

V5.5.140 202510



Contact Us

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1 Overview

HIKMICRO ALPEX LRF 4K Digital Day & Night Vision Scope can perform in all ambient light that is present. With an advanced 3840 × 2160 UHD detector and F1.2 to 2.5 adjustable aperture, it provides ultra-clear and vivid full-color clarity in daytime and classic black & white viewing at night. Equipped with an extra accurate built-in laser rangefinder module, it is with the traditional-style tube design, meeting the needs of professional hunters who value traditions and seek technological superiority. The scope is suitable for field and forest hunting, adventuring, and rescuing.

1.1 Main Function

- **Distance Measurement:** Built-in laser range finder provides an accurate distance between the target and the observation position.
- **Ballistic Calculation for Hunting:** This function helps you have a better experience in various conditions. Multiple parameters are required in calculation to ensure precision and flexibility of use.
- **Switch Display Mode:** The day/night/green/yellow/auto modes allow you to use device in different environments.
- **Quick Zeroing:** The device supports zero via the HIKMICRO Sight app and the device, and the zeroed reticle helps you to aim at the target fast and accurately. See **Zeroing**.
- **Recoil-activated Video:** the device can automatically start recording before the recoil-activation and end recording after the recoil-activation.
- **App Connection:** The device can capture snapshots, record videos, and set parameters by HIKMICRO Sight app after being connected to your phone via hotspot.

1.2 Appearance



Note

- The appearance may vary according to different models. Please take the actual product for reference.
 - Pictures in this manual are for illustration purpose only. Please take the actual product for reference.
-

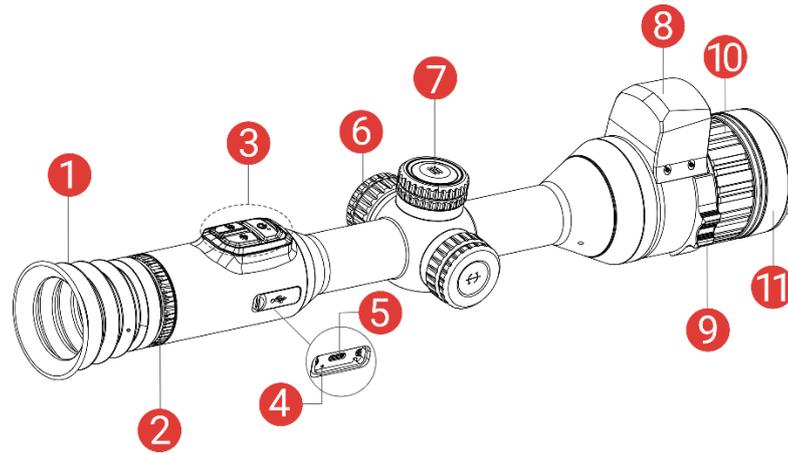


Figure 1-1 Appearance

Table 1-1 Description of Components

No.	Component	Description
1	Eyepiece	The piece placed closest to the eye to view the target.
2	Diopter Adjustment Ring	Adjusts the dioptic setting
3	Buttons	To set functions and parameters.
4	Charging Status Indicator	Indicates the charging status of the device. <ul style="list-style-type: none"> ● Flashing Red & Green: Error occurred. ● Solid Red: Charging. ● Solid Green: Fully charged.
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.
7	Wheel	To select functions and parameters and switch digital zoom.
8	Laser Rangefinder	Measures the distance to the target with laser.
9	Aperture Adjustment Ring	To adjust the size of aperture.
10	Focus Ring	Adjusts focus to obtain clear targets.
11	Lens Cover	Protects the lens.

Button Description

Table 1-2 Button Description

Icon	Button	Function
	Power	<ul style="list-style-type: none"> ● Press: Standby mode/Wake up device. ● Hold: Power on/off.
	Capture	<ul style="list-style-type: none"> ● Press: Capture snapshots. ● Hold: Start/Stop recording videos.
	Laser	<ul style="list-style-type: none"> ● Press: Turn on laser/perform laser ranging. ● Double-press: Turn off laser ranging. ● Hold: Turn on/off PIP (Picture-in-Picture).
	Wheel	<p>Non-Menu Mode:</p> <ul style="list-style-type: none"> ● Hold: Enter the menu. ● Rotate: Switch digital zoom. <p>Menu Mode:</p> <ul style="list-style-type: none"> ● Press: Confirm/Set parameters. ● Hold: Save and exit menu. ● Rotate: Move up/move down.
	Capture + Laser	Hold to lock/unlock the wheel.



Note

- The power indicator stays solid red when the device is on.
 - When the auto screen off function is enabled, if you press  to enter standby mode, you can also tilt or rotate the device to wake up the device. Refer to **Auto Screen Off** for detailed operation.
 - When the wheel is locked/unlocked, the icon  /  will be displayed.
-

2 Preparation

2.1 Cable Connection

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

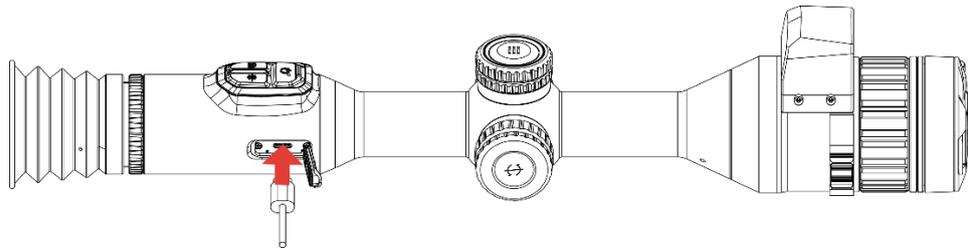


Figure 2-1 Cable Connection



Note

- Charge the device for more than 6 hours before first use.
 - Only the built-in battery can be charged via the type-C cable. Use the battery charger to charge the external battery.
 - The priority for power supply is given to the built-in battery first, followed by the external battery.
 - Battery icon / on the screen means the device is currently powered by the built-in battery/external battery.
-

2.2 Install Battery

2.2.1 Battery Instruction

- Remove the external battery if the device is not used for a long time.
- The external rechargeable battery type is 18650, and the battery size should be 19 mm × 70 mm. The rated voltage is 3.6 V, and the battery capacity is 3200 mAh.
- The built-in battery type is rechargeable lithium-ion battery, and the battery size should be 23 mm × 67 mm. The rated voltage is 3.635 V, and the battery capacity is 3350 mAh.

2.2.2 Battery Installation

Insert the battery into the battery compartment.

Steps

1. Turn the battery cover counterclockwise to loosen it.

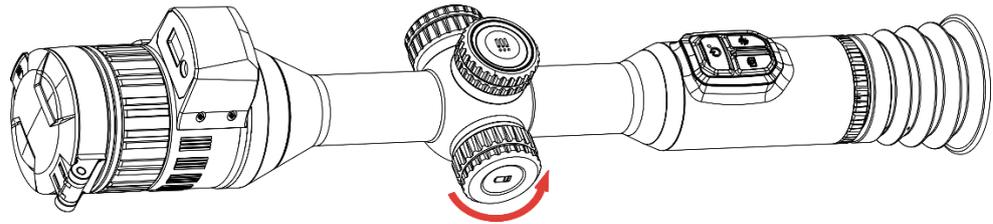


Figure 2-2 Loosen the Cover

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

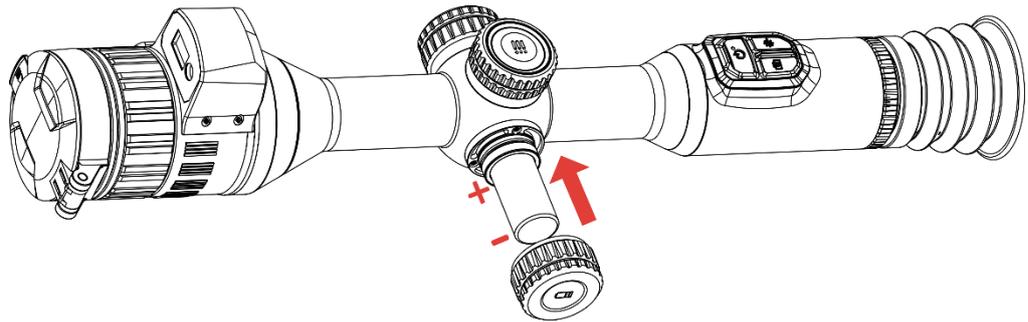


Figure 2-3 Insert the Battery

3. Turn the battery cover clockwise to tighten it.

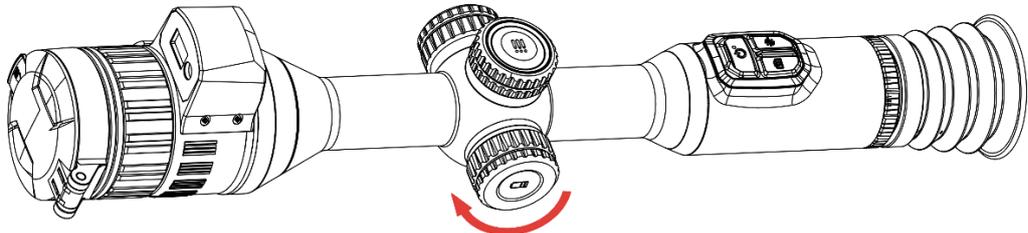


Figure 2-4 Tighten the Cover

2.3 Mount Device on Rail

Steps

1. Unscrew the ring top with Allen wrench.

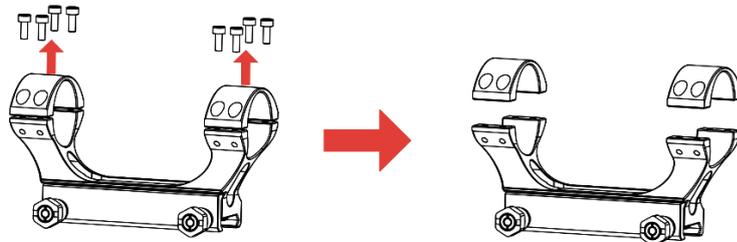


Figure 2-5 Unscrew the Ring Top

2. Place the device in the bottom half of the ring, and align the top holes with bottom holes.

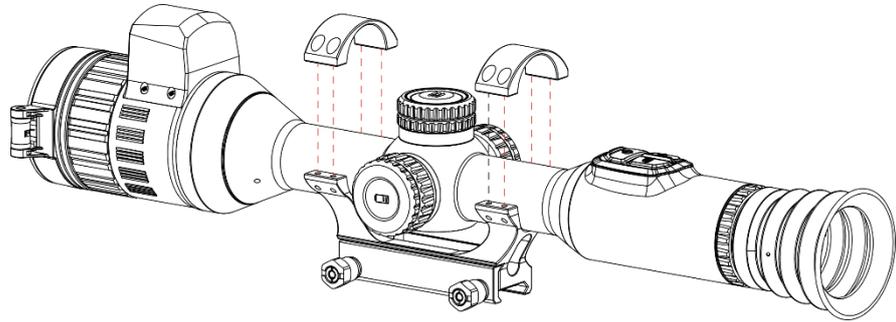


Figure 2-6 Place the Device in the Ring

3. Insert and tighten the screws.

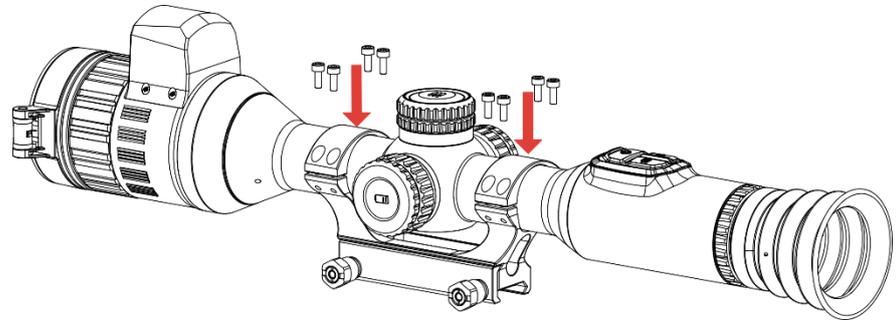


Figure 2-7 Tighten the Screws

4. Loosen the screws on the bottom half of the ring.

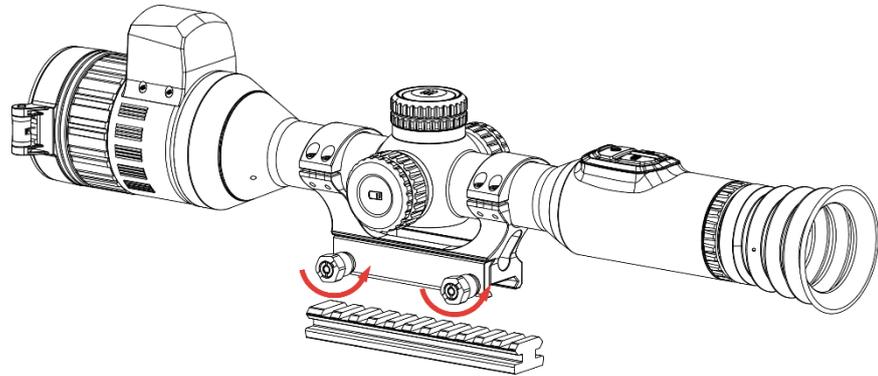


Figure 2-8 Loosen the Screws

5. Attach the bottom half of the ring to the rail, and tighten the screws on the ring. Make sure the device stays level.

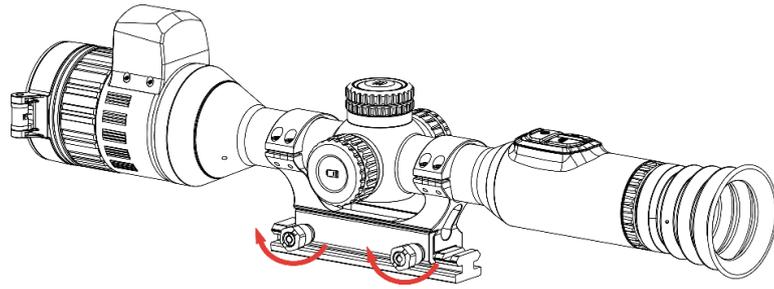


Figure 2-9 Tighten the Screws



Note

- The ring may vary according to different models. Please refer to the actual product.
 - Please purchase the ring separately.
 - Use lint-free cloth to clean the device base and the rail.
-

2.4 Install IR Torch

Steps

1. Open the IR torch bracket, and place the device in the IR torch bracket.

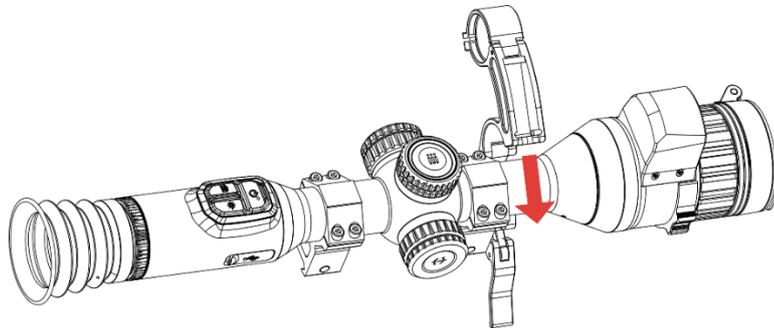


Figure 2-10 Open the IR Torch Bracket

2. Lock the lever by pressing it to fix the bracket as figure shows.

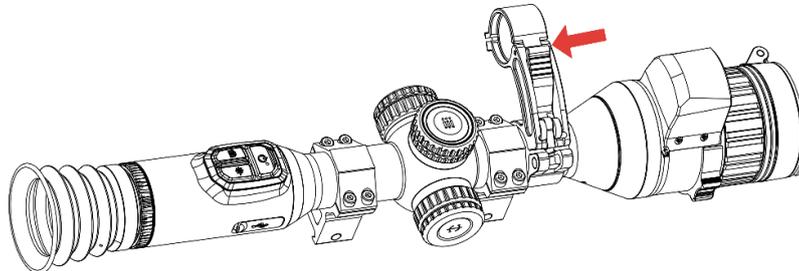


Figure 2-11 Lock the Lever

3. Turn the IR torch battery cover anticlockwise to remove it, and thread the IR torch through the bracket hoop, then turn the IR torch battery cover clockwise to tighten it.

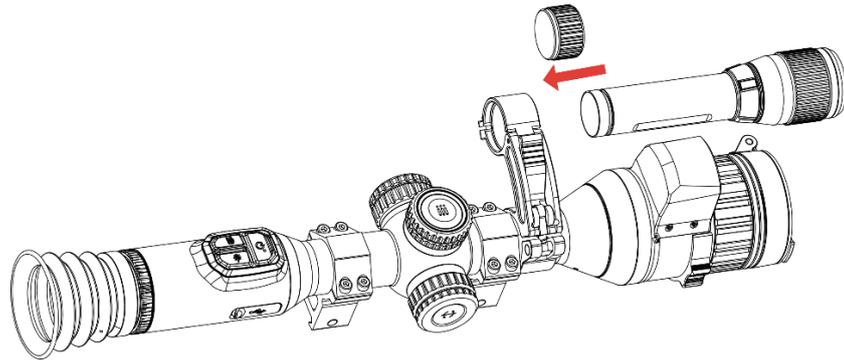


Figure 2-12 Thread the IR Torch

4. Tighten the screws to fix the IR torch.

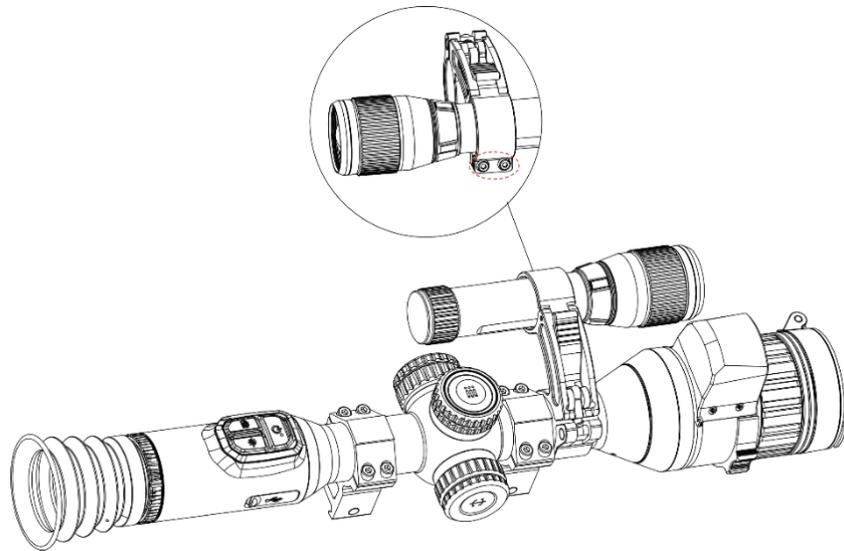


Figure 2-13 Fix the IR Torch



Note

- Rotate the lever to adjust the IR torch bracket. The lever would disassemble if continuously rotating it anticlockwise. Turn the lever clockwise to install it.
 - Please ensure the anti-slip pattern of the lever is outward when pressing the lever.
 - Please purchase the IR torch bracket and IR torch separately.
-

2.5 Power On/Off

Power On

When the device is connected to cable or the battery is enough, hold  to power on the device.

Power Off

When the device is turned on, hold  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 the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select , and press the wheel to enter the configuration interface.
4. Rotate the wheel to select the auto power off time as required, and press the wheel to confirm.
5. Hold the wheel to save and exit.



Note

- See the battery icon for the battery status.  /  means the battery is low,  /  means the battery is not detected or not installed, and  means the battery charging is abnormal.
 - When the low power note shows, charge the battery.
 - The auto power off takes effect only when the device isn't in operation or connected with HIKMICRO Sight app.
 - The auto power off countdown will start again when the device reenters standby mode, or the device is restarted.
-

2.6

Auto Screen Off

Auto screen off function darkens the screen to save energy and extend battery life.

Steps

1. Enable auto screen off.
 - 1) Hold the wheel to show the menu.
 - 2) Go to  **Advanced Settings**, and rotate the wheel to select  .
 - 3) Press the wheel to enable auto screen off.
 - 4) Hold the wheel to save settings and exit.
2. Use one of the following methods to switch the device to standby mode when the display is turned on:
 - Tilt the device downwards more than 70°.
 - Rotate the device horizontally more than 45°.
 - Keep the device still and do not move it for 5 minutes.
3. Use one of the following methods to wake up the device when the display is turned off:
 - Tilt the device downwards from 0° to 60° or upwards .
 - Rotate the device horizontally from 0° to 40°.
 - Press  to wake up the device.

2.7 Menu Description

In the live view interface, hold the wheel to show the menu.

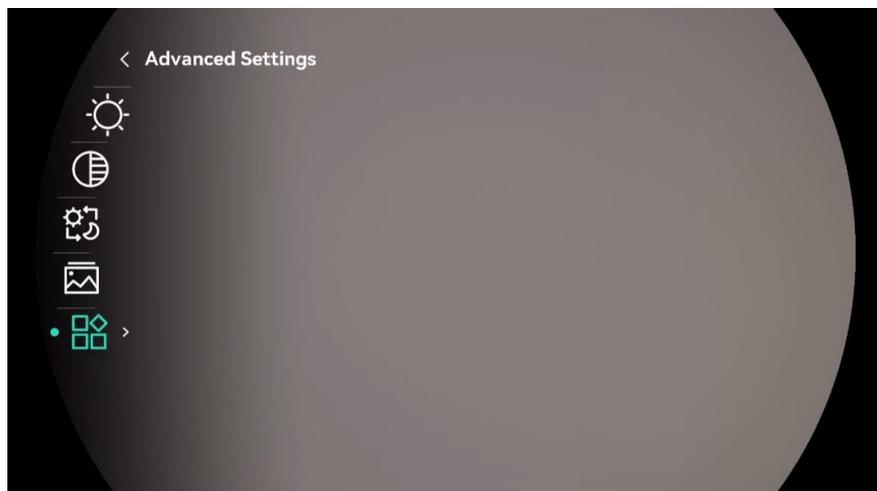


Figure 2-14 Device Menu

2.8 App Connection

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

Before You Start

Confirm **Remote Access** is enabled on the device. Hold the wheel to enter the menu, and go to **Advanced Settings > Remote Access**.

Steps

1. Search for 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

2. Hold the wheel to show the menu.
3. Go to  **Advanced Settings**, and rotate the wheel to select .
4. Press the wheel to enter the setting interface.
5. Rotate the wheel to select **Hotspot**. The hotspot function is enabled.
6. Turn on the WLAN of your phone and connect to the hotspot.
 - Hotspot Name: HIKMICRO_Serial No.
 - Hotspot Password: Go to **Hotspot** in the menu to check the password.
7. Open the app, and confirm the connection PIN code on the device to connect your phone with the device. You can view the interface of device on your phone.



Note

- If the password is not displayed, please upgrade the device to the latest version. Or enter the Serial No. as the password.
 - When the device is connected to your phone, you can change the hotspot password via the HIKMICRO Sight app.
 - The hotspot will be turned off if there is no connection for over 10 minutes.
 - The hotspot password will be updated when you reset the device (refer to **Reset Device**). In this case, you need to reconnect to the device hotspot.
-

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 an upgrade prompt on the device management interface. If there is no upgrade prompt, the firmware is the latest version. Otherwise, the firmware is not the latest version.

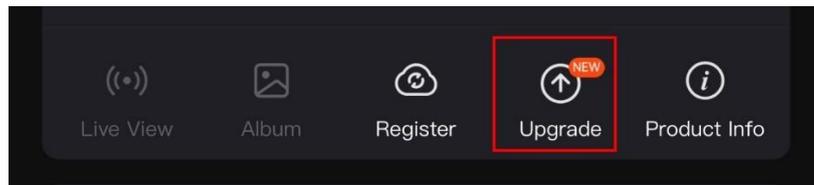


Figure 2-15 Check Firmware Status

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

Steps

1. Open HIKMICRO Sight app and connect your device to the app.
2. Tap the upgrade prompt to enter the firmware upgrade interface.
3. Tap **Upgrade** to start upgrade.



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



Caution

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

2.10 Zeroing (Overview)

You can enable the reticle to view the position of the target. Functions such as freeze and zoom help to adjust the reticle more accurately. See **Zeroing** for detailed instructions.



Figure 2-16 Zeroing

3 Image Settings

3.1 Adjust Diopter

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 diopter adjustment ring until the OSD information or image is clear.

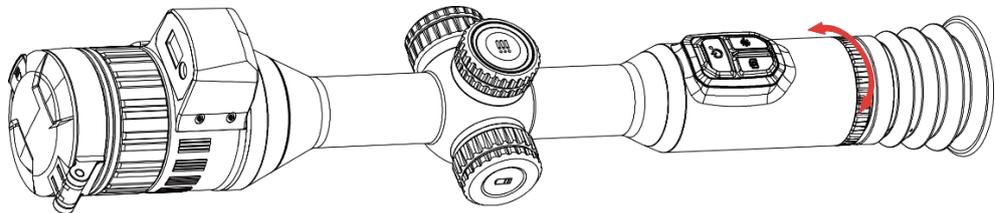


Figure 3-1 Adjust Diopter



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

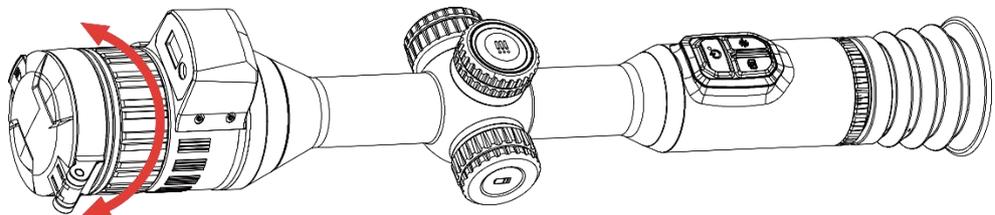


Figure 3-2 Adjust Focus



Note

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

3.3 Adjust Aperture

Steps

1. Power on the device.
2. Hold the device and make sure the eyepiece covers your eye.
3. Rotate the aperture adjustment ring to adjust aperture to accommodate various light conditions.

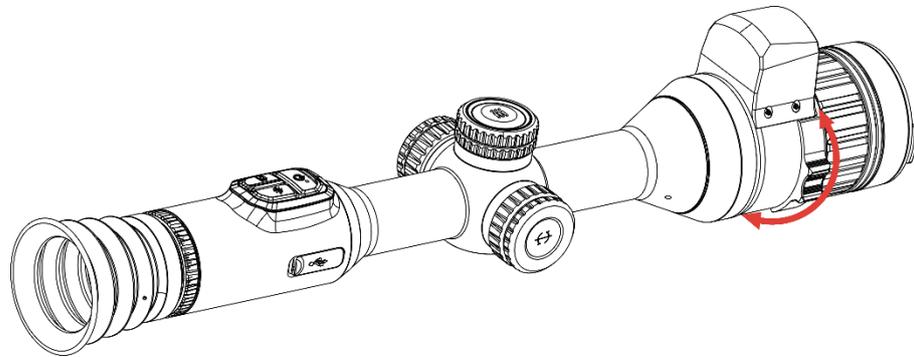


Figure 3-3 Adjust Aperture

3.4 Adjust Brightness

You can adjust the display brightness of the screen in the menu.

Steps

1. Hold the wheel to show the menu.
2. Rotate the wheel to select  and press the wheel to confirm.
3. Rotate the wheel to adjust brightness.
4. Hold the wheel to save settings and exit.

3.5 Adjust Contrast

Steps

1. Hold the wheel to show the menu.
2. Rotate the wheel to select  and press the wheel to confirm.

3. Rotate the wheel to adjust contrast.
4. Hold the wheel to save settings and exit.

3.6 Switch Display Mode

You can select different display modes in different scenes.

Steps

1. Hold the wheel to show the menu.
2. Rotate the wheel to select  and press the wheel to confirm. Rotate the wheel to switch display modes. Day, night, green, yellow, and auto modes are selectable.
 -  : Day mode. You can use this mode at daytime and in bright environment.



Figure 3-4 Day Mode

-  : Night mode. You can use this mode at night.



Figure 3-5 Night Mode

- 🌿 : Green mode. It's a night vision mode. You can use this mode according to your personal preference.



Figure 3-6 Green Mode

- 🌟 : Yellow mode. It's a night vision mode. You can use this mode according to your personal preference.



Figure 3-7 Yellow Mode

- 🌸 : Auto mode. The day mode and night mode switch automatically according to the ambient brightness.

3. Hold the wheel to save settings and exit.

3.7 Set Smart IR

Image overexposure may occur in too bright environment. The smart IR function helps to adjust the overexposed images by controlling infrared light intensity, so as to improve the image effect in night mode and dark environment.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enable the function.
4. Hold the wheel to save settings and exit.

3.8 Set Picture in Picture Mode

In the live view interface, hold  to turn on/off 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.



Figure 3-8 PIP



Note

- The zoom ratio will be temporarily displayed in the PIP view when adjusting the digital zoom.
 - When ballistic calculation is enabled, the PIP view centers on the recommended impact point.
-

3.9 Adjust Digital Zoom

You can zoom in and out the image by using this function. Rotate the wheel in the live view interface to switch the digital zoom ratio.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .

3. Press the wheel to enter the setting interface, and rotate the wheel to select a zoom mode.
 - **Multiple:** The digital zoom ratio can be set to 1×, 2×, 4×, and 8×.
 - **Continuous:** The actual zoom ratio changes by the step of 1×.
4. Hold the wheel to save and exit.
5. In the live view interface, rotate the wheel to switch the digital zoom of the device.



Note

When switching the digital zoom ratio, the left interface displays the actual magnification (Actual Magnification = Lens Optical Magnification × Digital Zoom Ratio). For example, the lens optical magnification is 3.5× and the digital zoom ratio is 2×, and the actual magnification is 7.0×.

3.10 Set Pitch Scale

You can enable pitch scale to view the device inclination angle in the live view.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **Function Settings**.
3. Rotate the wheel to select , and press the wheel to enable the pitch scale.
4. Hold the wheel to save and exit.



Figure 3-9 Pitch Scale

4 Zeroing

4.1 Set Reticle Mode

You can select a reticle mode according to your preference and different situations.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enter the setting interface, and rotate the wheel to select a reticle mode.
 - **Central Reticle:** This mode centers around the reticle when switching the digital zoom ratio, with the reticle and zoomed image moved to the center of the display.
 - **Fixed Reticle:** This mode centers around the reticle when switching the digital zoom ratio, with the reticle position unchanged.
4. Hold the wheel to save and exit.



Note

- The digital zoom ratio returns to 1× when switching the reticle mode.
 - The beginning continuous zoom ratio in central reticle mode is about 2× of that in fixed reticle mode.
-

4.2 Select Zeroing Profile

You can configure and save the reticle settings in zeroing profiles according to various situation.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Rotate the wheel to select a zeroing profile.
4. Hold the wheel to save and exit.

Result



Note

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

4.3 Set Reticle

You can select a reticle in the current zeroing profile, and set parameters such as type, color, and position for the reticle.

Before You Start

Select a zeroing profile first.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select  . Press the wheel to enter the setting interface.
3. Select  **Zeroing**, and press the wheel to confirm. Rotate the wheel to select a reticle No. You can select **OFF** to turn off the reticle.

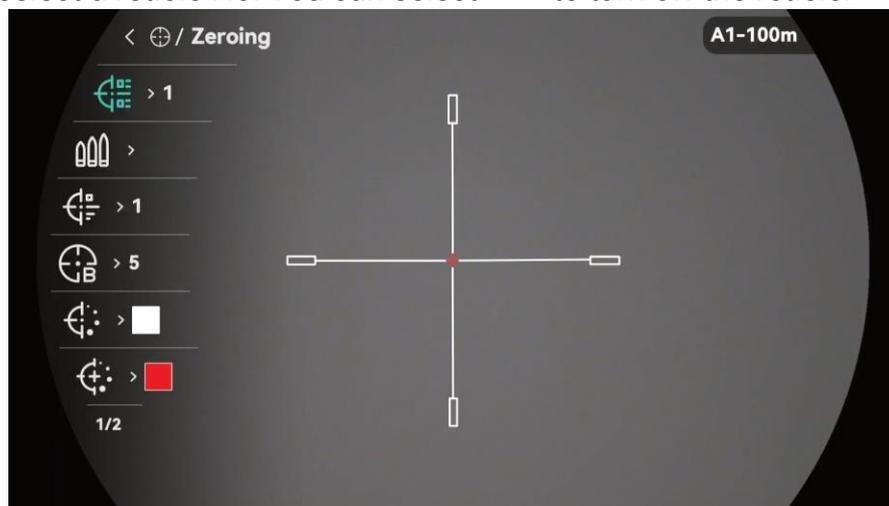


Figure 4-1 Using a Reticle



Note

The right top of the image displays the reticle information. For example, A1-100m means you are using the No. 1 reticle in zeroing profile A, and the set distance is 100 m.

4. Select  **Bullet**, and press the wheel to set the bullet name. Press the wheel to switch characters and rotate the wheel to set each character.
5. Select  **Type**, and press the wheel to confirm. Rotate the wheel to select the reticle type.
6. Select  **Opacity**, and press the wheel to confirm. Rotate the wheel to select the reticle opacity.
7. Select  **Color**, and press the wheel to confirm. Rotate the wheel to set the reticle color.
8. Select  **Reticle Center Color**, and press the wheel to confirm. Rotate the wheel to set the reticle center color.
9. (Optional) Repeat 3 to 7 to set other reticles in this zeroing profile.
10. Hold the wheel to save settings and exit.



Note

- 5 reticles can be configured in a zeroing profile.
 - If the PIP function is enabled, the aimed target can be magnified on the interface.
-

4.4 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.

4.4.1 Correct Reticle on Device

Select a zeroing profile first.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select  . Press the wheel to enter the setting interface.
3. Select  **Zeroing**, and press the wheel to confirm. Rotate the wheel to select a reticle you want to correct.

4. Select  **Correction**, and press the wheel to enter the setting interface.
5. Set the distance to the target.
 - 1) Rotate the wheel to select  **Distance**.
 - 2) Press the wheel to switch the digit you want to change.
 - 3) Rotate the wheel to change the number, and hold the wheel to finish the setting.
6. Select  **Zoom**, and press the wheel to confirm. Rotate the wheel to set the digital zoom ratio.
7. Aim at the target and pull the trigger. Align the reticle with the point of impact.
 - 1) Aim the big reticle at the target.
 - 2) Select  **Freeze**. Press the wheel to enable the function.
 - 3) Select  and rotate the wheel to set the coordinates until the big reticle aligns with the point of impact. Press the wheel to select axis. If you select **X**, the reticle moves left and right; if you select **Y**, the reticle moves up and down. Hold the wheel to finish setting.



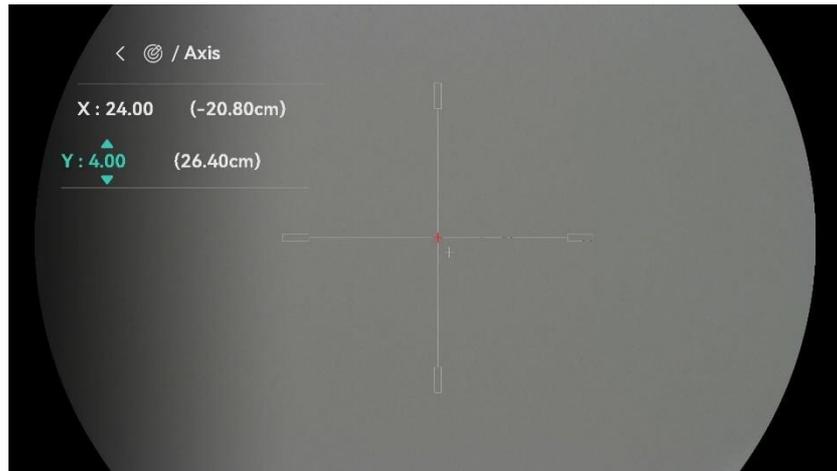


Figure 4-2 Enable Freeze



Note

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

8. Hold the wheel to exit the setting interface according to the prompt.
 - **OK:** Save the parameter and exit.
 - **CANCEL:** Exit without saving the parameters.
9. Pull the trigger again to verify that the aiming point aligns with the point of impact.
10. (Optional) Repeat 3 to 9 to set the position for other reticles in this zeroing profile.

4.4.2 Correct Reticle via HIKMICRO Sight

You can also correct the reticle by HIKMICRO Sight app.

Before You Start

Install HIKMICRO Sight on your phone.

Steps

1. Open HIKMICRO Sight and connect your device to the app.
2. Tap **Product Info**, and tap **Zero** to enter configuration interface.
3. Set reticle to the target.
 - 1) After synchronizing data from the device, select a zeroing profile.
 - 2) Select a reticle you want to correct.
 - 3) Input the number to set the distance to the target.
 - 4) Select digital zoom ratio.

4. Tap **Continue** and the parameters will be synchronized to the device, and then aim at the target and pull the trigger.
5. Measure the deviation of the point of impact from the target, and tap **Completed** to input the number to adjust the position of reticle to ensure the big reticle aligns with the point of impact. Tap **Apply** to synchronize the parameters to the device.

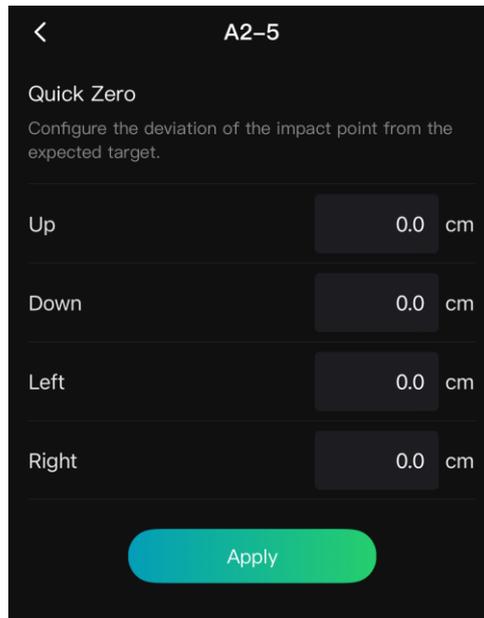


Figure 4-3 Quick Zero

6. Pull the trigger again to verify that the big reticle aligns with the point of impact.
7. Once the big reticle aligns with the point of impact, tap **Completed** to finish zeroing.
8. (Optional) Tap **Next Profile** for to set the position for other reticles.

Result

The position of the reticle is saved and synchronized to your device, so you can check it on your device.



Note

- When you enter the zeroing setting interface on your app, the device will return to the live view interface automatically.
 - The zeroing operation may vary due to app updates. Please take the actual app version for reference.
-

4.5 Ballistic Calculation for Hunting

The ballistic calculation helps you have a better experience in various conditions. Multiple parameters are required in calculation to ensure precision and flexibility of use.

Before You Start

- Make sure the reticle is enabled.
- Make sure you have finished zeroing.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select  . Press the wheel to enter the setting interface.
3. Rotate the wheel to select  **Ballistic Calculation**, and press the wheel to enter the setting interface.
4. Press the wheel to enable this function.
5. Select  **Aim Point Style**. Press the wheel and rotate the wheel to set the aim point style.
6. Select  **Aim Point Color**. Press the wheel and rotate the wheel to set the aim point color.
7. Select  and press the wheel to enter the parameter configuration interface. Rotate the wheel to select the following parameters, and press the wheel to set or input the data.
 - Drag Model: Set the bullet-specific drag model, e.g. G1, G7, and GS.
 - Initial Velocity: The velocity varies in different conditions.
 - Altitude: Set this to your normal altitude.
 - Temperature: Set this to your normal temperature.
 - Ballistic Coefficient: The measure of its ability to overcome air resistance.
 - Sight Height: The distance between the bore and the center of the lens.
8. Press the wheel to switch digit, and rotate the wheel to change the number.
9. Hold the wheel to save and exit.

10. Aim the cursor at the target and press  to turn on laser ranging and press  again to measure the target distance. The screen will display the recommended aiming point and the drop distance in the upper right corner of the interface.
11. (Optional) To adjust distance, repeat the above step.



Note

- The more parameters you specify, the more accurate the recommended aiming point will be.
 - The drop distance is related to the input parameters. Please refer to the actual situation.
 - Continuous laser ranging is not available when enabling ballistic calculation.
-

5 Measure Distance

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

Before You Start

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

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select  .
Press the wheel to enter the setting interface.
3. Go to  to select a laser ranging mode and press the wheel to confirm. **Once** and **Continuous** are selectable.
 - **Once**: Measure the distance once.
 - **Continuous**: Measure the distance continuously, and the measurement duration can be selected. The measurement result will be refreshed every second.
4. (Optional) Select  and press the wheel to enable/disable the THD display. When enabled, the THD (True Horizontal Distance) to the target will be displayed when performing laser ranging.
5. Hold the wheel to save settings and return to the live view interface.
6. Press  to turn on laser and aim the cursor at the target.
7. Press  again to measure the target distance.



Note

- Press  twice in the live view interface to turn off laser ranging.
 - Laser ranging cannot be enabled when device battery is low.
 - Laser ranging mode cannot be set when enabling Ballistic Calculation, and continuous laser ranging is not available.
 - When Continuous laser ranging is in use, it will be switched to Once after enabling Ballistic Calculation. When Ballistic Calculation is turned off, the laser ranging mode will be reverted to Continuous.
-

Result

The ranging result is displayed on the image.

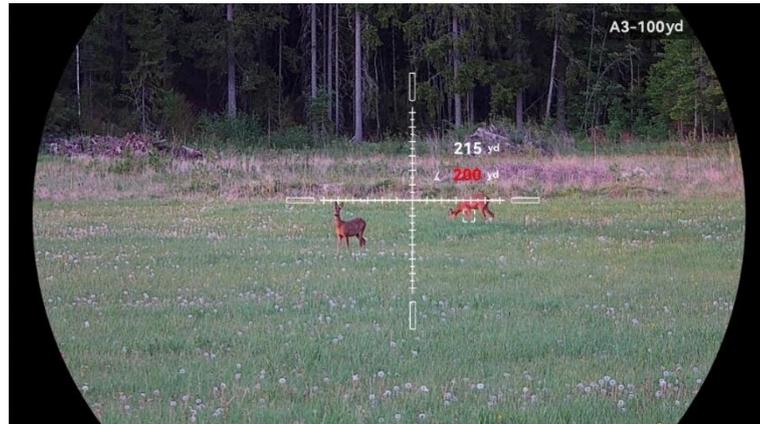


Figure 5-1 Distance Measurement Result

- When THD is enabled, the straight-line distance is displayed first, followed by the THD. As shown in the figure above, **215 yd** is the straight-line distance and **200 yd** is the THD.
- The ranging result will be displayed as "000" if laser ranging fails.



Caution

The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the laser ranging function, make sure that no human or inflammable substances are in front of the laser lens, and that the laser lens is not obstructed.

6 General Settings

6.1 Set OSD

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

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **Function Settings**.
3. Rotate the wheel to select , and press the wheel to enter OSD setting interface.
4. Rotate the wheel to select the **Time, Date, or OSD**, and press the wheel to turn on or turn off the selected OSD information.
5. Hold the wheel to save and exit.



Note

If you turn off **OSD**, all OSD information on the live view will not be displayed.

6.2 Set Brand Logo

You can add brand logo to the live view interface, snapshots, and videos.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **Function Settings**.
3. Rotate the wheel to select .
4. Press the wheel to enable **Brand Logo**.
5. Hold the wheel to save the settings and exit.

Result

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



Figure 6-1 Brand Logo Display

6.3 Capture and Video

6.3.1 Capture Picture

In the live view interface, press  to capture a picture.



Note

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

6.3.2 Set Audio

If you turn on 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 the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enable or disable this function.
4. Hold the wheel to save settings and exit.

6.3.3 Record Video

Steps

1. In the live view interface, hold  to start recording.



Figure 6-2 Start Recording

The left image displays the information of recording time.

2. Hold  again to stop recording.

6.3.4 Prerecord Video

After you enable this function and select the prerecording time, the device can automatically start recording the 7, 10 or 15 seconds before the recoil-activation and end recording the 7, 10 or 15 seconds after the recoil-activation.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enter the setting interface. Rotate the wheel to switch the prerecording time. 7 s, 10 s, and 15 s are selectable. You can also select **OFF** to turn off the function.
4. Hold the wheel to save settings and exit.

6.3.5 Local Album

Captured images and recorded videos are automatically stored in the device, and you can view the files in local albums.

Steps

1. Hold the wheel to show the menu.
2. Rotate the wheel to select . Press the wheel to enter the album.



Note

The albums are automatically created and named by year + month. The local pictures and videos of a certain month are stored in the corresponding album. For example, the pictures and videos of May in 2025 are saved in the album named 202505.

3. Rotate the wheel to select the album, and press the wheel to enter the selected album.
 4. Rotate the wheel to select a file to view.
 5. Press the wheel to view the selected file and relevant information.
-



Note

- Files are arranged in chronological order, with the most recent at the top. If you fail to find the most recently taken snapshots or videos, please check the time and date settings of your device. When you view files, you can switch to other files by rotating the wheel.
 - When you view files, you can press  to turn to next page, and press  to go back to previous page.
 - When you view videos, you can press the wheel to play or stop the video.
 - For deleting an album or a file, you can press  +  to call the dialogue box, and delete the album or file according to the prompt.
-

6.4 Export Files

6.4.1 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 **App Connection**.
2. Tap **Media** to access device albums.

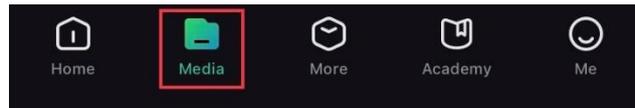


Figure 6-3 Access Device Albums

3. Tap **Local** or **Device** to view the photos and videos.
 - **Local**: You can view the files captured on 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.
 - The exporting operation may vary due to app updates. Please take the actual app version for reference.
-

6.4.2 Export Files via PC

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

Before You Start

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

Steps

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



Note

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

2. Open computer disk and select the disk of device. Go to the DCIM folder and find the folder named after the capture year and month. For

example, if you capture a picture or record a video on May 2025, go to **DCIM -> 202505** 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 driver program automatically.
-

7 System Settings

7.1 Adjust Date

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select , and press the wheel to enter the configuration interface.
4. Press the wheel to select the year, month, or day, and rotate the wheel to change the number.
5. Hold the wheel to save settings and exit.

7.2 Synchronize Time

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select , and press the wheel to enter the configuration interface.
4. Rotate the wheel to switch the clock system. 24-hour and 12-hour clock are selectable. If you select 12-hour clock, press the wheel, and then rotate the wheel to select AM or PM.
5. Press the wheel to select the hour or minute, and rotate the wheel to change the number.
6. Hold the wheel to save settings and exit.

7.3 Set Language

You can select the device language in this function.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.

3. Rotate the wheel to select , and press the wheel to enter the configuration interface.
4. Rotate the wheel to select the language as required, and press the wheel to confirm.
5. Hold the wheel to save settings and exit.

7.4 Set Unit

You can switch the unit for distance measurement.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select , and press the wheel to enter the configuration interface.
4. Rotate the wheel to select the unit as required.
5. Hold the wheel to save settings and exit.

7.5 Save Diagnostic Log

This function helps to collect and save device operation logs for troubleshooting.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select , and press the wheel to enable the function. The device will start to collect and record the device log.
4. Press the wheel to disable the function when the diagnostic log collection is finished.



Note

- When disabling the diagnostic log, a prompt will appear on the interface indicating the progress of diagnostic log collection. This operation cannot be interrupted. Once the log collection is finished, the prompt will disappear.
-

- If you need to send the logs to the professionals, find and export the log package files (*.tar.gz) stored in the log folder in the root directory of the device. See **Export Files via PC**.
 - The log package files (*.tar.gz) are generated only when Diagnostic Log is enabled and disabled afterwards. If the function is kept on, only *.log files will be saved in the log folder.
-

7.6 Set Screen Lock Passcode

You can set a passcode to lock the device screen to avoid unauthorized access to the device.

7.6.1 Enable Passcode

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enable this function and enter the configuration interface.
4. Press the wheel to switch digit, and rotate the wheel to change the number.
5. Hold the wheel to save settings and exit.

Result

When passcode is enabled, you need to enter the passcode when the device is powered on or woken up from standby mode. Press the wheel to switch digit, rotate the wheel to change the number, and hold the wheel to confirm.



Note

If you forget the passcode, you can hold  to reset it on the lock screen. This operation requires a factory reset to the device.

7.6.2 Change Passcode

You can change the passcode as needed when it is enabled.

Steps

1. Hold the wheel to show the menu.

2. Go to  **Advanced Settings**, rotate the wheel to select , and press the wheel to confirm.
3. Rotate the wheel to select , and press the wheel to enter the configuration interface.
4. Press the wheel to switch digit, and rotate the wheel to change the number.
5. Hold the wheel to save settings and exit.

7.7 View Device Information

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select , and press the wheel to confirm. You can view the device information such as version, serial No, and available storage space.
4. Hold the wheel to save settings and exit.

7.8 Restore Device

This function only restores the device basic settings, such as brightness, contrast, and PIP, to their defaults.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select . Press the wheel to restore the device to defaults according to the prompt.

7.9 Reset Device

This function erases all content and settings, including basic settings, storage, passcode, hotspot password, and zeroing.

Steps

1. Hold the wheel to show the menu.

2. Go to  **Advanced Settings**, and select  **General Settings**.
3. Rotate the wheel to select  . Press the wheel to restore the device to defaults according to the prompt.

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

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 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.

Hereby, Hangzhou Microimage Software Co., Ltd. declares that this device (refer to the label) is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.hikmicrotech.com/en/support/download-center/declaration-of-conformity/>

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

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.

For the device without a supplied battery, 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.



Regulation (EU) 2023/1542 (Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery 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), or lead (Pb). 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.

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

Conformité Industrie Canada ICES-003

Cet appareil répond aux exigences des normes CAN ICES-003 (B)/NMB-003 (B).

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- (1) cet appareil ne doit pas causer d'interférences, et
- (2) cet appareil doit accepter toute interférence reçue, notamment les interférences susceptibles d'occasionner un fonctionnement indésirable de l'appareil.

Cet appareil est conforme aux limites d'exposition au rayonnement IC RSS-102 établies pour un environnement non contrôlé.

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Elektro- und Elektronikgeräte, die zu Abfall geworden sind, werden als Altgeräte bezeichnet. Besitzer von Altgeräten haben diese einer vom unsortierten Siedlungsabfall getrennten Erfassung zuzuführen. Altgeräte gehören insbesondere nicht in den Hausmüll, sondern in spezielle

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

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

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. Please read all the safety information carefully before using.

Laws and Regulations

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

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

- If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with Limited Power Source. Refer to the product label for the power supply output parameters.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid overheating or fire hazards caused by overload.
- The power delivered by the charger must be between min. 8.4 Watts required by the radio equipment, and max. 11 Watts in order to achieve the maximum charging speed.

Battery

- The external rechargeable battery type is 18650, and the battery size should be 19 mm × 70 mm. The rated voltage is 3.6 VDC, and the battery capacity is 3200mAh.
- The built-in battery type is rechargeable lithium-ion battery, and the battery size should be 23 mm × 67 mm. The rated voltage is 3.635 V, and the battery capacity is 3350 mAh.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only.
- Batteries of improper size cannot be installed, and may cause abnormal

shutdown.

- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Please purchase the batteries recommended by the manufacturer if necessary.
- The purchased batteries by users need to comply with the relevant international standards about battery safety (e.g. EN/IEC standards).
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.
- Dispose of used batteries according to the instructions.
- Remove the battery if you do not use the device for a long time.
- For long-term storage of the battery, make sure it is fully charged every 3 months to ensure the battery quality. Otherwise, damage may occur.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- Install the external battery before the built-in battery runs out, or the device cannot be turned on.
- Make sure the battery temperature is between 0°C to 45°C (32°F to 113°F) when charging.
- 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 or low air pressure environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Confirm there is no flammable material within 2 m of the charger during charging.
- DO NOT place the device with battery or the battery alone near heating or fire source. Avoid direct sunlight.
- DO NOT place the battery in the reach of children.
- DO NOT swallow the battery to avoid chemical burns.
- CAUTION: Risks of short circuit, fire, or explosion if the battery is damaged. Frequent use, dropping, impact, corrosion, or compression of the battery may cause damages including cracked casing, detached plates, or leakage of internal liquid or gas, etc.
- If the battery is damaged, stop using it immediately and dispose of it 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.
- Make sure that the power has been disconnected before device

teardown and repair by professionals.

- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Check the optical surfaces of objective lens, eyepiece, rangefinder, etc. If necessary, remove dust and sand from the optics using tools and solvent designed especially for this purpose (it is preferable to use a non-contact method).
- Wipe the exterior surfaces of metal, plastic, and silicone parts with a clean and soft cloth. Do not use chemically active substances, solvents, etc. as these may damage the paint.
- Clean the electrical contacts of the battery on the device using a non-greasy organic solvent.

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.
- Avoid equipment installation on vibratory surface or places subject to shock (neglect may cause equipment damage).
- This equipment is not suitable for use in locations where children are likely to be present.

Emergency

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

Laser



When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out. The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the laser ranging function, make sure that no human or inflammable substances are in front of the laser lens, and that the laser lens is not obstructed. Do not place the device where minors can fetch it. According to IEC 60825-1:2014 and EN 60825-1:2014+A11:2021 and

EN50689: 2021, this laser product is classified as Class 1 laser product and consumer laser product.

Limited Warranty

Scan the QR code for the product warranty policy.



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