HIKMICRO

User Manual

Thermal Scope

STELLAR 3.0 SERIES

V5.5.124 202506

Contact Us

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1 Overview

HIKMICRO STELLAR 3.0 Thermal Scope is equipped with an unparalleled powerful thermal detector, with higher sensitivity and the latest image processing algorithm, ensuring users catch the finest details no matter the weather or light conditions. With a 2560 × 2560 1.03” OLED larger display, STELLAR 3.0 makes it easier to spot targets quickly and accurately.

1.1 Main Function

- **Quick Zeroing:** STELLAR 3.0 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*.
- **Image Pro 3.0**: Featured with Image Pro 3.0 imaging algorithm, STELLAR 3.0 delivers minimal details of animals’ characteristics and layered backgrounds with less noise.
- **HSIS (HIKMICRO Shutterless Image System)**: Some models support shutterless technology, it is a dynamic learning process without image quality loss. This eliminates the need for periodic calibration pauses, ensuring you never miss a critical moment in the field.
- **Local Album**: Local album stores captured images and recoil-activated videos, which help you clarify whether you get the game immediately.
- **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 of LRF model is different from non-LRF model. Please take the actual product for reference.
- Pictures in this manual are for illustration purpose only. The actual product may be different.

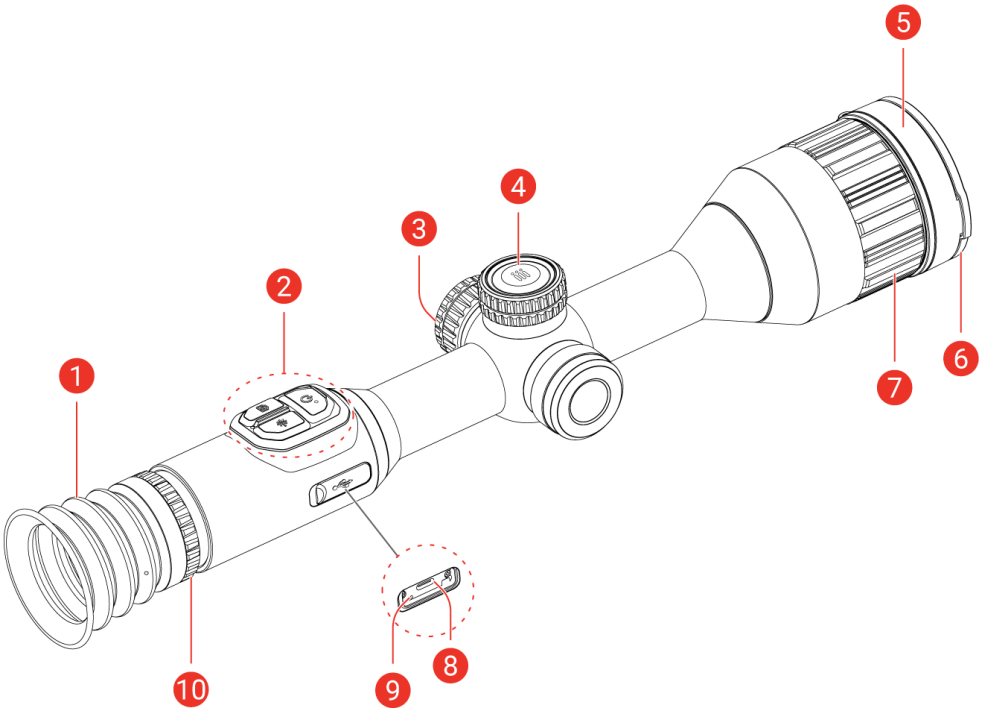


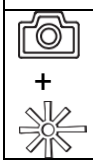
Figure 1-1 Appearance

Table 1-1 Description of Components

No.	Component	Description
1	Eyepiece	The piece placed closest to the eye to view the target.
2	Buttons	To set functions and parameters.
3	Battery Compartment	For holding the battery.
4	Wheel	To select functions and parameters and switch digital zoom.
5	Thermal Lens	For thermal imaging.
	Laser Range Finder *(LRF Model)*	Measures the distanceto the target with laser.
6	Lens Cover	Protects the lens.
7	Focus Ring	Adjusts focus to obtain clear targets.
8	Type-C Interface	To connect the device to power supply or transmit data with a Type-C cable.
9	Charging Status Indicator	Indicates the charging status of the device. ● Flashing Red & Green: Error occurred. ● Solid Red: Charging. ● Solid Green: Fully charged.
10	Diopter Adjustment Ring	Adjusts the dioptric setting.

Button Description (LRF Model)

Table 1-2 Button Description (LRF Model)

Icon	Button	Function
	Power	● Press: Standby mode/Wake up device. ● Hold: Power on/off.
	Capture	● Press: Capture snapshots. ● Hold: Start/Stop recording videos.
	Measure	● Press: Turn on laser ranging. ● Double-Press: Turn off laser ranging. ● Hold: Correct non-uniformity of display (Flat Field Calibration, FFC).
	Wheel	Non-Menu Mode: ● Press: Switch palettes. ● Hold: Enter the menu. ● Rotate: Switch digital zoom. Menu Mode: ● Press: Confirm/Set parameters. ● Hold: Save and exit menu. ● Rotate: Move up/move down.
	Capture + Measure	Hold to lock/unlock the wheel.

Button Description (Non-LRF Model)

Table 1-3 Button Description (Non-LRF Model)

Icon	Button	Function
	Power	● Press: Standby mode/Wake up device. ● Hold: Power on/off.
	Capture	● Press: Capture snapshots. ● Hold: Start/Stop recording videos.
	Mode	● Press: Switch palettes. ● Hold: Correct non-uniformity of display (Flat Field Calibration, FFC).
	Wheel	Non-Menu Mode: ● Hold: Enter the menu. ● Rotate: Switch digital zoom. Menu Mode: ● Press: Confirm/Set parameters. ● Hold: Save and exit menu.

		• Rotate: Move up/move down.
 + 	Capture + Mode	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 the device. Alternatively, connect the device and PC to export files.

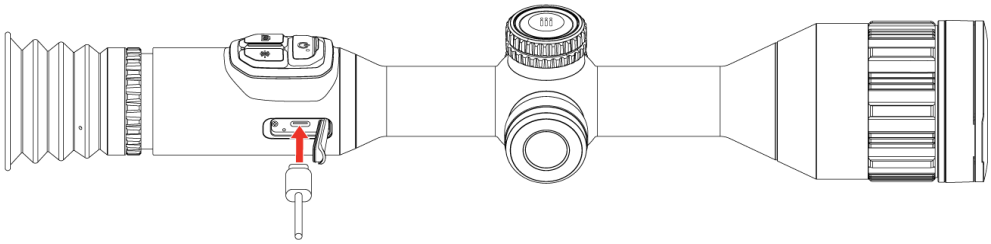


Figure 2-1 Cable Connection

Note

- Charge the device before first use.
- Only the built-in battery will 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 external battery first, followed by the built-in battery.
- on the top of the 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 is 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 is 23 mm × 67 mm. The rated voltage is 3.6 V, and the battery capacity is 3350 mAh.

2.2.2 Battery Installation

Insert the batteries into the battery compartment.

Steps

1. Turn the battery cover counterclockwise to loosen it.

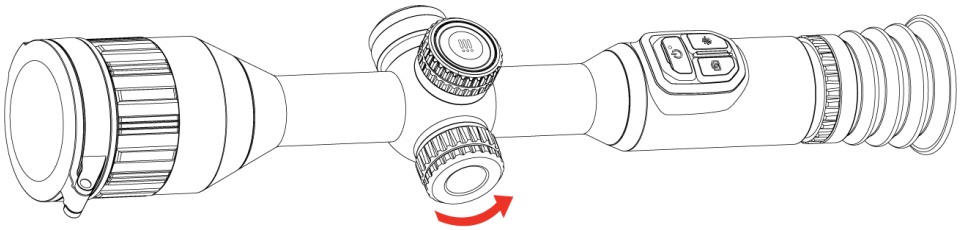


Figure 2-2 Loosen the Cover

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

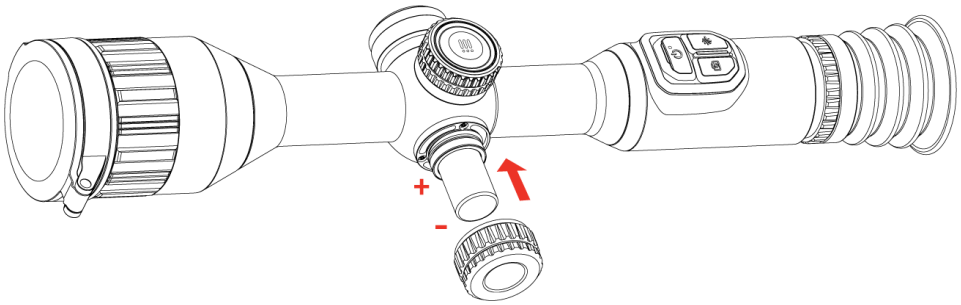


Figure 2-3 Insert the Battery

3. Turn the battery cover clockwise to tighten it.

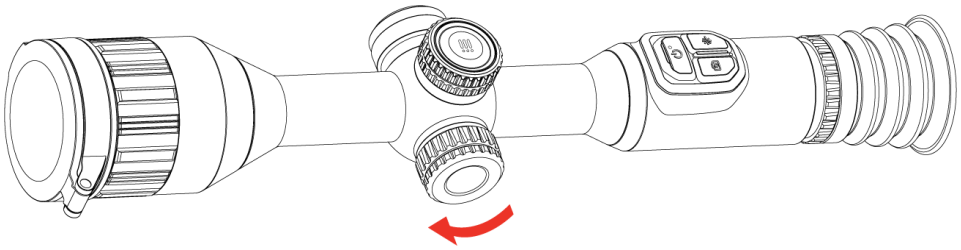


Figure 2-4 Tighten the Cover

2.3 Mount Device on Rail

Steps

1. Unscrew the ring top with an Allen wrench.

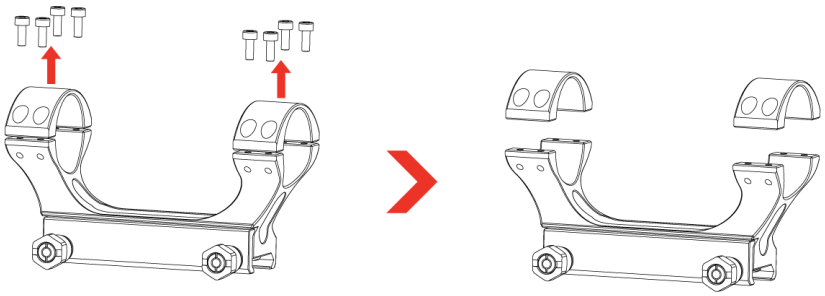


Figure 2-5 Unscrew the Ring Top

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

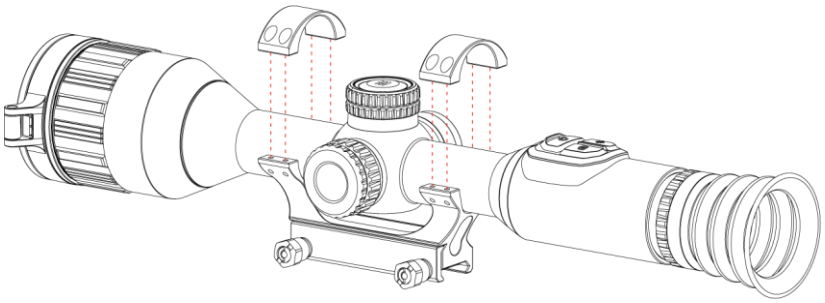


Figure 2-6 Place the Device in the Ring

3. Insert and tighten the screws.

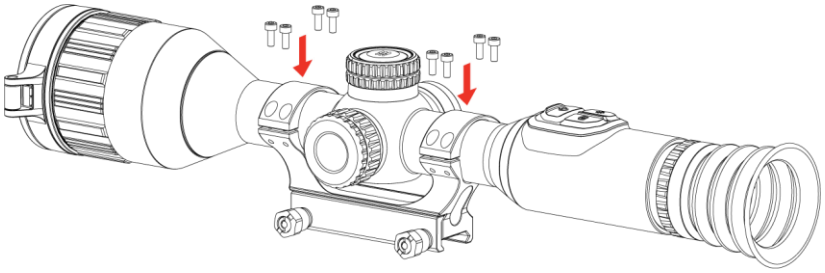


Figure 2-7 Tighten the Screws

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

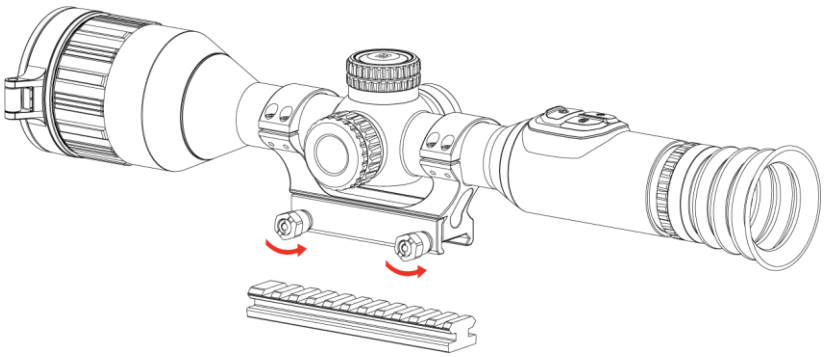


Figure 2-8 Loosen the Screws

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

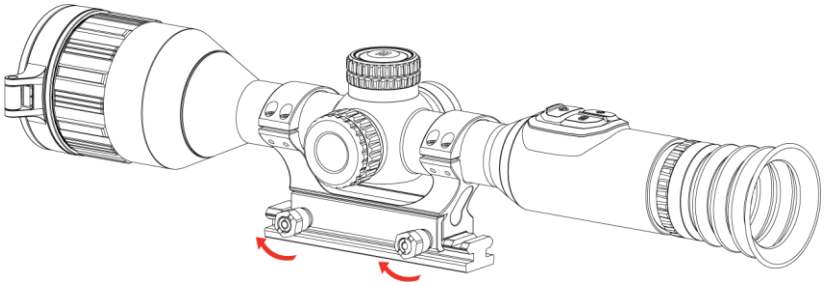


Figure 2-9 Tighten the Screws

Note

- The ring needs to be purchased separately. Please take the actual product for reference.
- Use lint-free cloth to clean the device base and the rail.

2.4 Power On/Off

Power On

When the device is connected to a power adaptor or the battery power is sufficient, 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**.
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 needed, 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 fully charged, / means that the battery is low, means the

battery charging is abnormal, and / means the battery is not installed or out of power.

- 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.

2.5 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. The device will enter standby mode under one of the following operations 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. You can wake up the device by one of the following operations 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.

2.6 Menu Description

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

Figure 2-10 Device Menu

2.7 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.

Steps

1. Search the HIKMICRO Sight on App Store (iOS System) or Google Play™ (Android System) to download it, or scan the QR code to download and install the app.

Android System

iOS System

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 and the hotspot password is displayed.
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 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 you enter wrong password several times. Refer to ***Reset Device*** to reset the device, and connect the app again.
- The hotspot will be turned off if there is no connection for over 10 minutes.

2.8 Firmware Status

2.8.1 Check Firmware Status

Steps

1. Open 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.

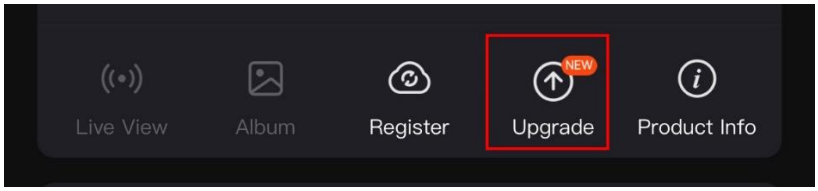


Figure 2-11 Check Firmware Status

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

2.8.2 Upgrade Device

Upgrade Device via HIKMICRO Sight

Steps

1. Open HIKMICRO Sight 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. 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 configuration interface.
4. Rotate the wheel to select **USB Flash Drive**.
5. Connect the device to your PC with the type-C cable.
6. Open the detected disk, copy the upgrade file and paste it to the root directory of the device.
7. Disconnect the device from your PC.
8. 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.

2.9 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 2-12 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.

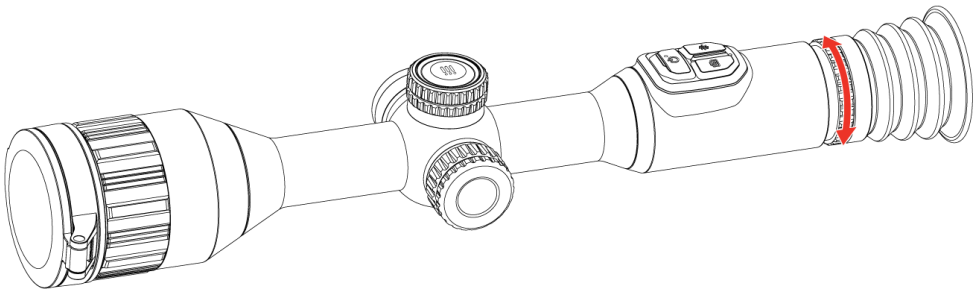


Figure 3-1 Adjust Diopter

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.

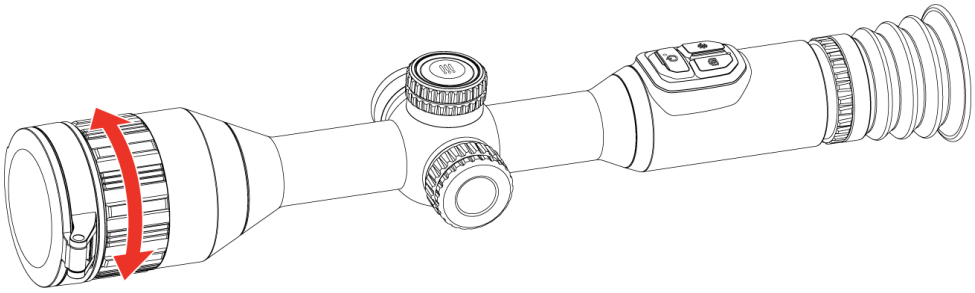


Figure 3-2 Adjust Focus

Note

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

3.3 Adjust 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 display brightness.
4. Hold the wheel to save the settings and exit.

3.4 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 the settings and exit.

3.5 Adjust Tone

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 a tone. **Warm** and **Cold** can be selected.
4. Hold the wheel to save and exit.

Figure 3-3 Warm Tone

Figure 3-4 Cold Tone

3.6 Adjust Sharpness

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 adjust sharpness.
4. Hold the wheel to save settings and exit.

Figure 3-5 Sharpness 1

Figure 3-6 Sharpness 5

3.7 Select Scene Mode

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

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 switch scene mode.
   - **Observation**: Observation mode is recommended in normal scene.
   - **Detection**: Detection mode is recommended in hunting environment.
4. Hold the wheel to save the settings and exit.

3.8 Set Palettes

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

3.8.1 Custom Enabled Palettes

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 the palettes you need, and press the wheel to enable them.

Note

At least one palette should be enabled.

4. Hold the wheel to save the settings and exit.

3.8.2 Switch Palettes

- LRF model: Press the wheel in live view interface to switch the selected palettes.
- Non-LRF model: Press M in live view interface to switch the selected palettes.

White Hot

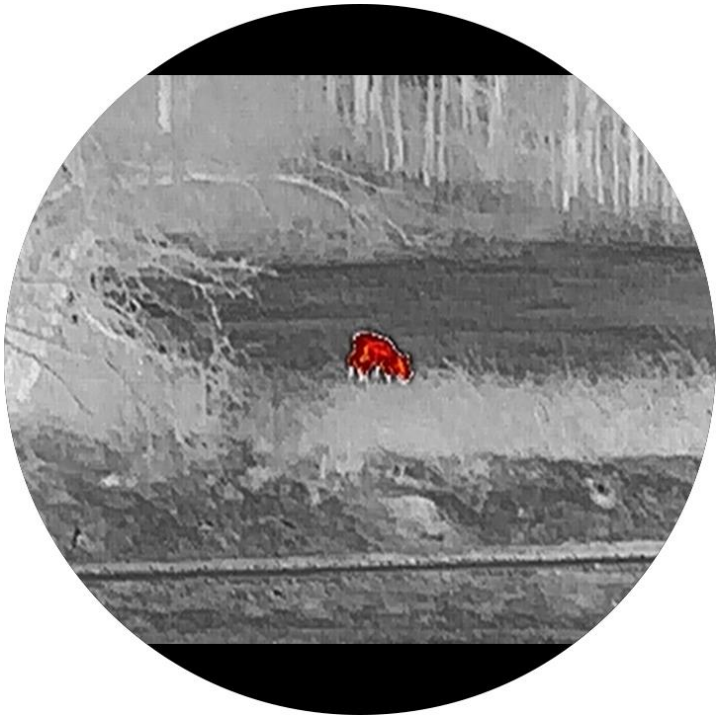
The hot part is light-colored in view. The higher the temperature is, the lighter the color is.

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.

Red Monochrome

The whole image is red colored. The higher the temperature is, the lighter the color is.

Green Monochrome

The whole image is green colored. The higher the temperature is, the lighter the color is.

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 preset options such as 1×, 2×, 4×, etc.
   - **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.
- The zoom ratio may vary according to different models. Please take the actual product for reference.

3.10 Zoom Pro

Zoom Pro refers to zoomed image detail enhancement. When you turn on this function, the details of zoomed live view image will be enhanced.

Steps

1. Hold the wheel to show the menu.
2. Rotate the wheel to select , and press the wheel to enable it.
3. Hold the wheel to save the settings and exit.

Result

The details of the zoomed live view image will be enhanced.

Note

- If the PIP function is enabled, Zoom Pro is only enabled in the PIP view.
- The function may vary according to different models. Please take the actual product for reference.

3.11 Flat Field Correction

This function can correct non-uniformity of display.

Note

All the models of STELLAR 3.0 series except SX60L 3.0 support HSIS (HIKMICRO Shutterless Image System). For the HSIS models, use Manual or External FFC to correct the non-uniformity of display when necessary.

Steps

1. Hold the wheel to show the menu.
2. Go to **Advanced Settings**, rotate the wheel to select **Image Calib.** and press the wheel to confirm.
3. Rotate the wheel to switch the FFC modes, and press the wheel to confirm.
   - **Auto**: Only available on the SX60L 3.0 model. The device performs FFC automatically according to the set schedule.
   - **Manual**: In the live view interface, hold (LRF model) or (non-LRF model) to correct the non-uniformity of display.
   - **External**: Cover the lens cover, and then hold (LRF model) or (non-LRF model) to correct the non-uniformity of display.
4. Hold the wheel to save the settings and exit.

3.12 Correct Defective Pixel

The device can correct the defective pixels on the screen.

Steps

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

3. Press the wheel to select the **X** or **Y** axis. Then rotate the wheel to set the coordinates until the cursor reaches the dead pixel.

Note

If you select **X** axis, the cursor moves left and right; if you select **Y** axis, the cursor moves up and down.

4. Press the wheel twice to correct the dead pixel.
5. Hold the wheel to save and exit.

Note

- The selected defective pixel can be magnified to view it more easily.
- If the screen OSD blocks the defective pixel, move the cursor to reach the pixel and the device will perform mirror display automatically.

3.13 Set Picture in Picture Mode

Steps

1. Hold the wheel to show the menu.
2. Rotate the wheel to select and press the wheel to enable it. The details are shown in the upper center of the interface.
3. Hold the wheel to exit.

Figure 3-7 Picture in Picture Mode

Note

- When reticle is enabled, the PIP view centers on the reticle center. When reticle is turned off, the PIP view is the detail of central part.
- If the PIP function is enabled, only the PIP view zooms when adjusting the digital zoom ratio.
- When ballistic calculation is enabled, the PIP view centers on the recommended impact point.
- The zoom ratio will be temporarily displayed in the PIP view when adjusting the digital zoom.

3.14 Set Pitch Scale

You can enable pitch scale to view the horizontal and vertical inclination angle of the device in the live view.

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 pitch scale.
4. Hold the wheel to save and exit.

Figure 3-8 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 actual zoom ratio returns to the min. value when switching the reticle mode.
- The beginning continuous zoom ratio in central reticle mode is about 2× of that in fixed reticle mode.
- The zoom ratio may vary according to different models. Please take the actual product for reference.

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. Press and rotate the wheel to select a zeroing profile.
4. Hold the wheel to save and exit.

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, A1-109yd means you are using the No. 1 reticle in zeroing profile A, and the set distance is 109 yards.

4. Select **Bullet**, and press the wheel to set the bullet name. Press the wheel to switch the digit and rotate the wheel to change the value.
5. Select **Type**, and press the wheel to confirm. Rotate the wheel to select the reticle type. 11 types of reticles can be selected.

Note

When you enable PIP, the detail of reticle type 11 will not be displayed in PIP view.

6. Select **Reticle Color**, and press the wheel to confirm. Rotate the wheel to set the reticle color.
7. Select **Reticle Center Color**, and press the wheel to confirm. Rotate the wheel to set the reticle center color.
8. (Optional) Repeat 3 to 7 to set other reticles in this zeroing profile.
9. 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.
- In black hot mode and white hot mode, if you set the reticle color as white or black, the color of the reticle will be inverted automatically to better aim at the target.

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

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 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 select the digit you want to set.
   3) Rotate the wheel to change the number. 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.

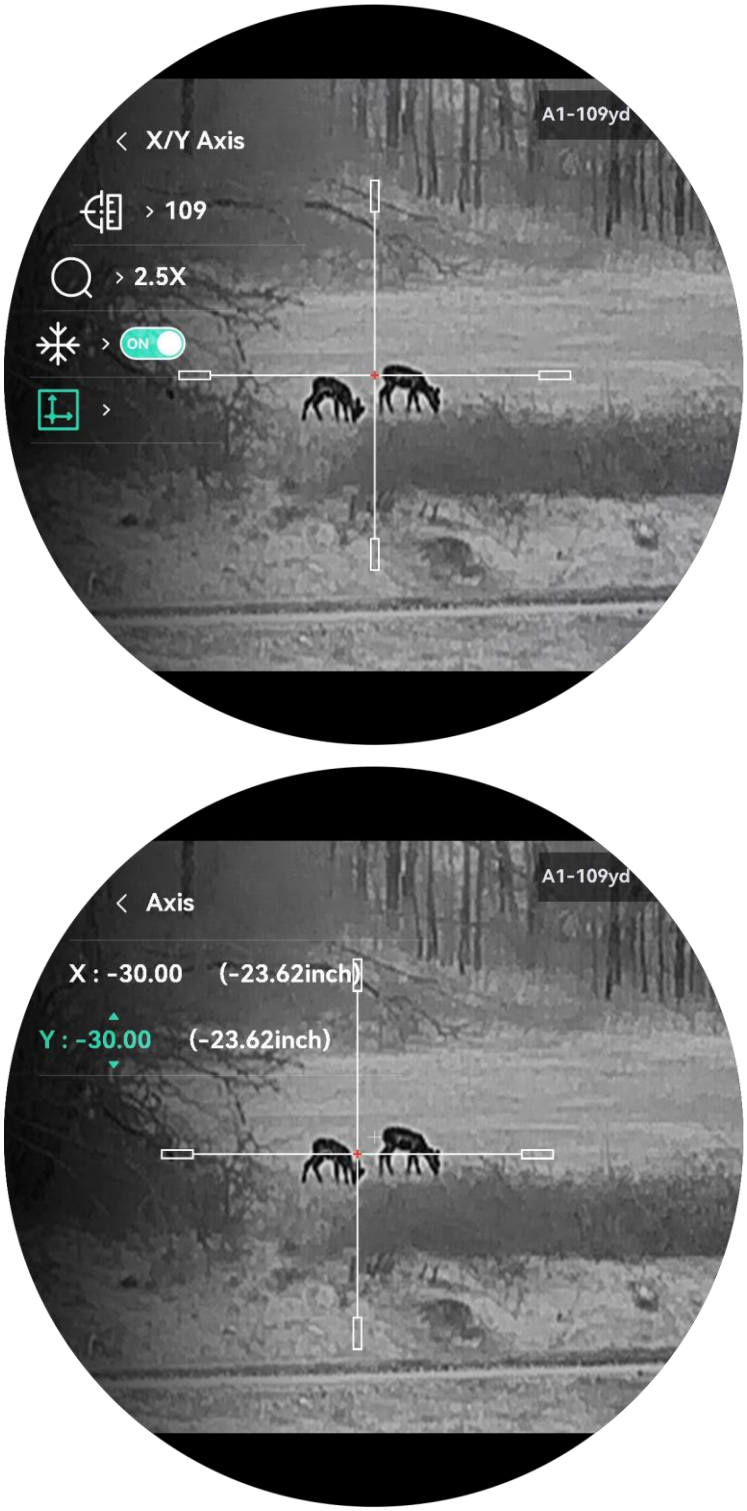


Figure 4-2 Enable Freeze

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.

Step

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 take a few shots at the target.
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.

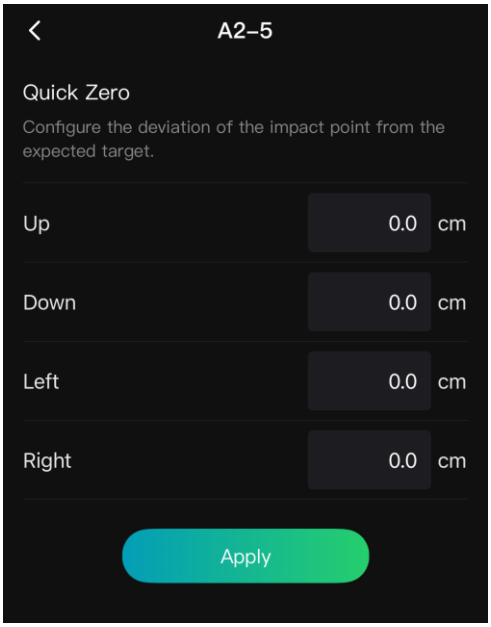


Figure 4-3 Quick Zero

6. Pull the trigger again and check the point of impact. Ensure the big reticle aligns with it.
7. Tap **Completed** to finish zeroing.
8. (Optional) Tap **Next Profile** 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 (LRF Model)

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

Note

This function is only available on LRF model.

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 . Press the wheel to enter the setting interface.
4. Select **Ballistic Calculation**, and press the wheel to enable this function.
5. Select **Aim Point Style**. Press and rotate the wheel to set the aim point style.
6. Select **Aim Point Color**. Press 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. Press to turn on laser ranging, aim the cursor at the target, 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 the 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 (LRF Model)

The device with an LRF module 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. In the menu, rotate the wheel to select , and press the wheel to confirm.
4. 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.
5. (Optional) Horizontal distance can also be displayed on the live view interface when performing laser ranging. Select and press the wheel to enable the horizontal distance.
6. Hold the wheel to return to the live view interface.
7. Press to turn on laser ranging, aim the cursor at the target, and press again to measure the target distance.

Note

- Double-press 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 distance measurement 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 no human or inflammable substances are in front of the laser lens.

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 rotate the wheel to select .
3. 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 rotate the wheel to select .
3. Press the wheel to enable **Brand Logo**.
4. 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 Burning Prevention

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

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 the **Burn-Prevention** function.
4. Hold the wheel to save the settings and exit.

6.4 Hot Tracking

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

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 and mark the spot of highest temperature.
4. Hold the wheel 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 6-2 Hot Tracking

6.5 Capture and Video

6.5.1 Capture Picture

In the live view interface, press to capture 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*.

6.5.2 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.

6.5.3 Record Video

Steps

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

Figure 6-3 Start Recording

The recording time is displayed on the top.

2. Hold again to stop recording.

6.5.4 Prerecord Video

After you enable this function and select the prerecording time, the device can automatically start recording the 5, 10 or 15 seconds before the recoil-activation and end recording the 5, 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. 5 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.

6.5.5 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. Go to **Advanced Settings**, and rotate the wheel to select .

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 an album and press the wheel to enter it.
4. Rotate the wheel to select a file to view.
5. Press the wheel to view the selected file.

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 videos, you can press the wheel to play or stop the video.
- For deleting an album or a file, you can press + (LRF model) or M + (non-LRF model) to call the dialogue box, and delete the album or file according to the prompt.

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

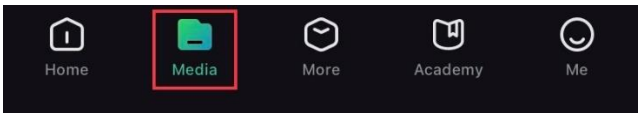


Figure 6-4 Access Device Albums

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 6-5 Export Files

Note

- Go to **Me** -> **About** -> **User Manual** on the app to see more detailed operations.
- You can also access device albums by tapping bottom left icon in the live view interface.
- The exporting operation may vary due to app updates. Please take the actual app version for reference.

6.6.2 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. 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 configuration interface.
4. Rotate the wheel to select **USB Flash Drive**.
5. Connect the device and PC with the Type-C cable.

Note

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

6. 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.
7. Select and copy the files to PC.
8. 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.

7 System Settings

7.1 Adjust Date

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 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 rotate the wheel to select .
3. 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 rotate the wheel to select .
3. Press the wheel to enter the configuration interface.

4. Rotate the wheel to select the language as needed, 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 rotate the wheel to select .
3. Press the wheel to enter the configuration interface.
4. Rotate the wheel to select the unit as needed.
5. Hold the wheel to save settings and exit.

7.5 Cast Device Screen to PC

The device supports casting screen to PC via a UVC protocol-based streaming media player. You can view the device image on the PC display for details.

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 configuration interface.
4. Rotate the wheel to select **Digital**.
5. Hold the wheel to save the settings and exit.
6. Open the UVC protocol-based player, and connect your device to the PC via the type-C cable.

7.6 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 rotate the wheel to select .
3. 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 export the logs to the professionals, open computer disk to copy and paste the log package files (*.tar.gz) stored in the log folder in the root directory of the device. See *Export Files via PC*.
- If you export the logs from the device directly without turning off the diagnostic log collection, only the .log files in the log folder can be exported.

7.7 View Device Information

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 confirm. You can view the device information such as version, serial No., and available storage space.
4. Hold the wheel to 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 rotate the wheel to select .

3. 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, hotspot password, and zeroing.

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 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, in standby mode or **Auto Power Off** is enabled.
- 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 USB connection mode is **USB Flash Drive**.
- 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

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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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.

INFORMATIONEN FÜR PRIVATE HAUSHALTE

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4. Datenschutz-Hinweis:

Altgeräte enthalten häufig sensible personenbezogene Daten. Dies gilt insbesondere für Geräte der Informations- und Telekommunikationstechnik wie Computer und Smartphones. Bitte beachten Sie in Ihrem eigenen Interesse, dass für die Löschung der Daten auf den zu entsorgenden Altgeräten jeder Endnutzer selbst verantwortlich ist.

5. Bedeutung des Symbols „durchgestrichene Mülltonne“:

Das auf Elektro- und Elektronikgeräten regelmäßig abgebildete Symbol einer durchgestrichenen Mülltonne weist darauf hin, dass das jeweilige Gerät am Ende seiner Lebensdauer getrennt vom unsortierten Siedlungsabfall zu erfassen ist.

Symbol Conventions

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.

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.
- 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.
- 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

- The external rechargeable battery type is 18650, and the battery size is 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 is 23 mm × 67 mm. The rated voltage is 3.6 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 half year 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.

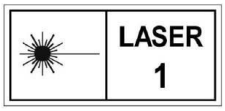
Using Environment

- 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 no human or inflammable substances are in front of the laser lens. Do not place the device where minors can fetch it. The wavelength is 905 nm, the pulse duration is 35 ns, and the max. average power output is 2 mW. According to IEC 60825-1:2014, EN 60825-1:2014+A11:2021, and EN 50689:2021, 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.

Manufacture Address

Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict, Binjiang District, Hangzhou, Zhejiang 310052, China

Hangzhou Microimage Software Co., Ltd.

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

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