

Thermal Scope STELLAR 2.0 Series

User Manual V5.5.86 202401



Contact Us

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1 Overview

HIKMICRO STELLAR 2.0 Thermal Scope adopts a 12 μ m thermal detector with high sensitivity, ensuring perfect detail recognition even in the hardest weather conditions. The traditional-style 30 mm tube design meets the needs of professional hunters who value traditions and seek technological superiority. With extended operation time, the scope is mainly applied in field and forest hunting, adventuring, and recusing scenarios.

1.1 Main Function

- Zeroing: The reticle helps you to aim at the target fast and accurately.
 See Zeroing.
- Auto Screen Off: The function allows the device to enter standby mode/wake up through angle changes. The function darkens the screen to save energy and extend battery life.
- Recoil-activated Video with Audio: 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.
- Image Correction: The device supports DPC (Defective Pixel Correction) and FFC (Flat Field Correction) which can optimize the image quality.

1.2 Appearance



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

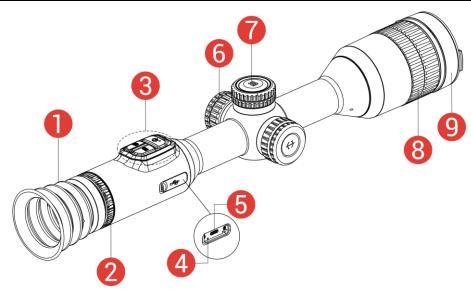


Figure 1-1 Appearance

Table 1-1 Description of Components

No.	Component	Description
1	Eyepiece	The piece placed closest to the eye to view the target.
2	Diopter Adjustment Ring	Adjusts the dioptric
3	Buttons	To set functions and parameters.
4	Charging Status Indicator	 Indicates the charging status of the device. 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	Focus Ring	Adjusts focus to obtain clear targets.

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No.	Component	Description
9	Lens Cover	Protects the lens.

Button Description

Table 1-2 Button Description

lcon	Button	Function
	Power	Press: Standby mode/Wake up device.Hold: Power on/off.
	Capture	Press: Capture snapshots.Hold: Start/Stop recording videos.
M	Mode	 Press: Switch palettes. Hold: Correct non-uniformity of display (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.

i 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.
- ullet When the wheel is locked/unlocked, the icon ldothing / ldothing 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.

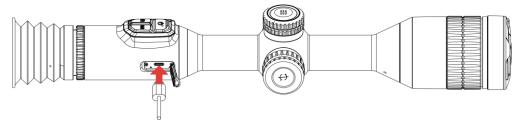


Figure 2-1 Cable Connection



Note

Charge the device for more than 6 hours before first use.

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 3.635 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 batteries into the battery compartment.

Steps

1. Turn the battery cover counterclockwise to loosen it.

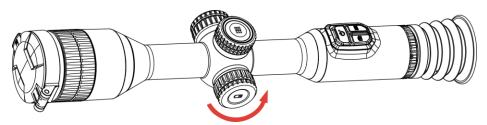


Figure 2-2 Loosen the Cover

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

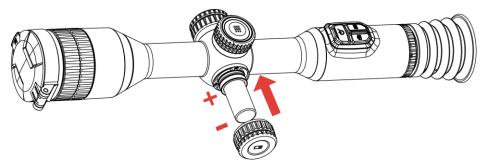


Figure 2-3 Insert the Battery

3. Turn the battery cover clockwise to tighten it.

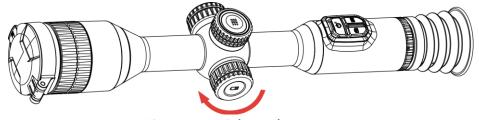


Figure 2-4 Tighten the Cover

2.3 Mount Device on Rail

Steps

1. Unscrew the ring top with Allen wrench.

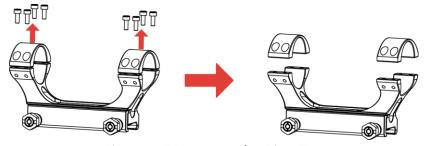


Figure 2-5 Unscrew the Ring Top

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

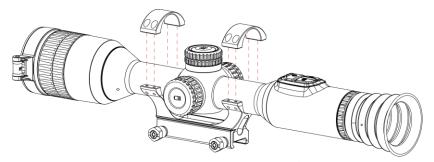


Figure 2-6 Place the Device in the Ring

3. Insert and tighten the screws.

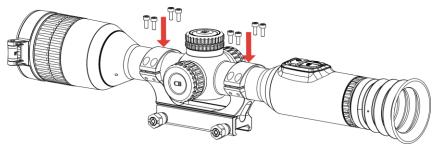


Figure 2-7 Tighten the Screws

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

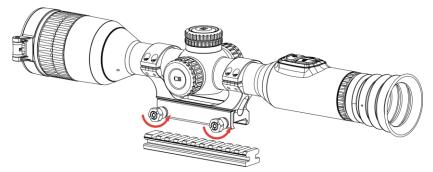


Figure 2-8 Loosen the Screws

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

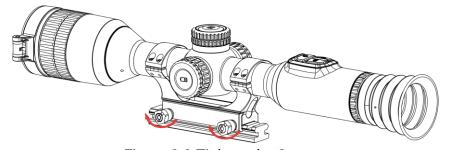


Figure 2-9 Tighten the Screws



- The ring may vary according to different models. Please refer to the actual product.
- The ring needs to be purchased separately.
- 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 cable or the battery is enough, hold \circlearrowleft to power on the device.

Power Off

When the device is turned on, hold \circlearrowleft 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.

- 1. Hold the wheel to show the menu.
- 2. Go to **Advanced Settings**.
- 3. Rotate the wheel to select \bigcirc , 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.

- When the low power note shows, charge the battery.
- The auto power off takes effect only when the device enters the standby mode and the device isn't connected with HIKMICRO Sight app at the same time.
- 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 increase battery time.

Steps

- 1. Enable auto screen off.
 - 1) Hold the wheel to show the menu.
 - 2) Go to R 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. You can do one of the following methods to enter the standby mode when the display is turned on:
 - Tilt the device downwards more than 70°.
 - Rotate the device horizontally more than 30°.
 - Keep the device still and do not move it for 5 minutes.
- 3. You can do one of the following methods to wake up the device when the display is turned off:
 - Tilt the device downwards from 0° to 70° or upwards.
 - Rotate the device horizontally from 0° to 30°.
 - 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

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 Range Advanced Settings, and rotate the wheel to select Q.
- 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: Serial No.
- 7. Open the app and connect your phone with the device. You can view the interface of device on your phone.



- The device cannot connect to the app if you enter wrong password several times. Refer to *Restore Device* to reset the device, and connect the app again.
- The device should be activated for the first use.

2.8 Firmware Status

2.8.1 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.

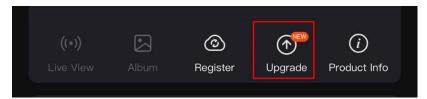


Figure 2-11 Check Firmware Status

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 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.

2.9 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.

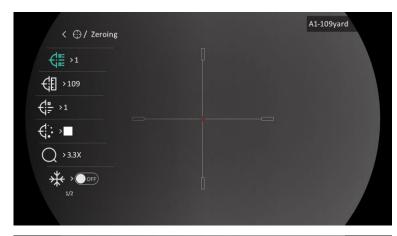




Figure 2-12 Zeroing

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.

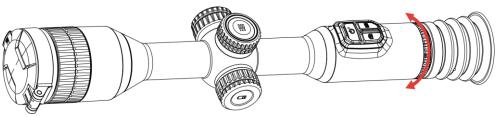


Figure 3-1 Adjust Diopter



Note

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

3.2 Adjust Focus

- 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.

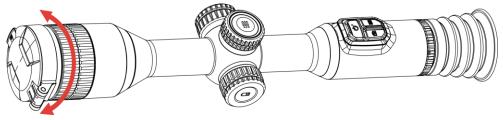


Figure 3-2 Adjust Focus



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 on and press the wheel to confirm.
- 3. Rotate the wheel to adjust display brightness.
- 4. Hold the wheel to save settings and exit.

3.4 Adjust Contrast

Steps

- 1. Hold the wheel to show the menu.
- 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.

3.5 Adjust Tone

- 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 Adjust Tone

3.6 Adjust Sharpness

- 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 3-4 Sharpness Comparison

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.
 - Recognition: Recognition mode is recommended in normal scene.
 - Jungle: Jungle mode is recommended in hunting environment.
- 4. Hold the wheel to save settings and exit.

3.8 Set Palettes

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

White Hot

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



Black Hot

The hot part is black-colored in view. The higher the temperature is, the darker the color is.



Red Hot

The hot part is red-colored in view. The higher the temperature is, the redder the color is.



Fusion

From high temperature to low temperature, the image is colored in from white, yellow, red, pink to purple.



3.9 Flat Field Correction

This function can correct non-uniformity of display.

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 image calibration modes, and press the wheel to confirm.
 - Auto FFC: The device calibrates image automatically according to the set schedule when switching on the camera.
 - Manual FFC: In the live view interface, hold to trigger calibration.
 - External: Cover the lens cover, and then hold to trigger calibration in the live view interface.
- 4. Hold the wheel to save the settings and exit.



The countdown will start before the device performs FFC automatically.

3.10 Correct Defective Pixel

The device can correct the defective pixels on the screen.

- 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.

i Note

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

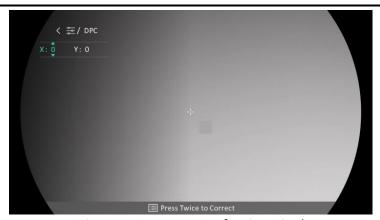


Figure 3-5 Correct Defective Pixel



Note

If the screen OSD blocks the defective pixel, move the cursor to reach the defective pixel, then the device performs mirror display automatically.

3.11 Adjust Digital Zoom

In the live view interface, rotate the wheel to adjust digital zoom of the device.

- 1. Hold the wheel to show the menu.
- 2. Go to Range 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 1x, 2x, 4x, and 8x.

- Continuous: The digital zoom ratio can be set from 1.0× to 8.0× continuously.
- 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.



When switching the digital zoom ratio, the left interface displays the actual magnification (Actual Magnification = Lens Optical Magnification \times Digital Zoom Ratio). For example, the lens optical magnification is $3.3\times$ and the digital zoom ratio is $2\times$, and the actual magnification is $6.6\times$.

3.12 Set Picture in Picture Mode

- 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 3-6 Picture in Picture Mode



- When reticle is enabled, the PIP view is the detail of reticle. 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.

3.13 Set Image Pro

Image pro refers to image detail enhancement. When you enable this function, the details of whole live view image will be enhanced.

Steps

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

Result

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

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 [0].
- 3. Press the wheel to enter the setting interface, and rotate the wheel to select a reticle mode.
 - **Fixed Reticle**: This mode centers around the reticle when switching the digital zoom ratio.
 - **Central Reticle**: This mode centers around the image 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.
- If you select fixed reticle, the continuous zoom ratio can be set from 1.0× to 8.0×.
- If you select central reticle, the continuous zoom ratio can be set from 2.0× to 8.0×.

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.
- 3. Rotate the wheel to select a zeroing profile.
- 4. Hold the wheel to save and exit.

Result

The right top of the image displays the reticle information. For example, B4-101yard means you are using the No. 4 reticle in zeroing profile B, and the set distance is 101 yard.



Figure 4-1 Using a Reticle



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.

- 1. Hold the wheel to show the menu.
- 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.
- 4. Select **Type**, and press the wheel to confirm. Rotate the wheel to select the reticle type. 10 types of reticles can be selected.
- 5. Select **Color**, and press the wheel to confirm. Rotate the wheel to set the reticle color. **Black**, **White**, **Green**, and **Red** are selectable.

6. (Optional) Repeat 3 to 5 to set other reticles in this zeroing profile.



Note

When you switch the reticle No., a prompt will appear on the interface. Select **OK** to save the parameters for the current reticle.

- 7. Hold the wheel to exit according to the prompt.
 - OK: Save the parameter and exit.
 - CANCEL: Exit without saving the parameters.



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.

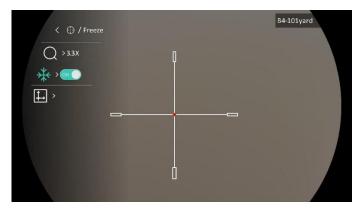
Before You Start

Select a zeroing profile first.

- 1. Hold the wheel to show the menu.
- 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. Set the distance to the target.

 - 2) Press the wheel to select the number you want to change.
 - 3) Rotate the wheel to change the number, and press the wheel to finish the setting.

- 5. Select **Zoom**, and press the wheel to confirm. Rotate the wheel to set the digital zoom ratio.
- 6. 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) 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.



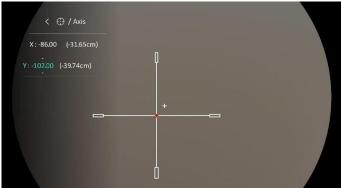


Figure 4-2 Enable Freeze



- When you switch the reticle No., a prompt will appear on the interface.
 Select OK to save the parameters for the current reticle.
- When enabling the freeze function in reticle, you can adjust the position of the cursor on a frozen image. This function can prevent image flutter.
- 7. Hold the wheel to exit the setting interface according to the prompt.
 - OK: Save the parameter and exit.
 - CANCEL: Exit without saving the parameters.

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- 8. Pull the trigger again to verify that the aiming point aligns with the point of impact.
- 9. (Optional) Repeat 3 to 8 to set the position for other reticles in this zeroing profile.

5 Measure Distance

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

Before You Start

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

Steps

- 1. Hold 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. Set the parameters for the target.
 - Rotate the wheel to select the target from Grey Wolf, Brown Bear, Deer, and Custom.
 - 2) Press and rotate the wheel to set target height.



The available height ranges from 0.1 m to 9.0 m.

- 3) Press the wheel to confirm.
- 4) Hold the wheel to save the settings and return to the distance measurement interface.
- 4. Align the center of top mark with the edge of target top, and press the wheel to confirm.
- 5. Align the center of bottom mark with the edge of target bottom, and press the wheel to confirm.

Result

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

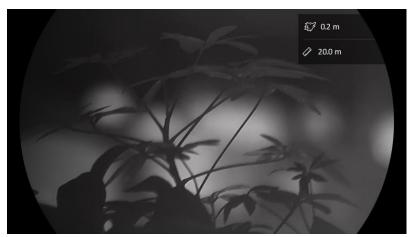


Figure 5-1 Measurement Result

General Settings 6

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.
- 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.



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.



- 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.
- 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 on to capture picture.



Note

- When capturing succeeds, the image freezes for 1 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.
- 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 left image displays the information of recording time.

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 7, 10 or 15 seconds before the recoilactivation and end recording the 7, 10 or 15 seconds after the recoilactivation.

Steps

- 1. Hold the wheel to show the menu.
- 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.

6.6 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.

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

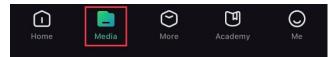


Figure 6-4 Access Device Albums

- 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.



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.

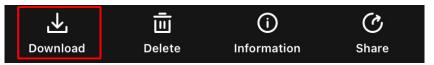


Figure 6-5 Export Files



- 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. Connect the device and PC with the Type-C cable.

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$\bigcap_{\mathbf{i}}$

Note

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

- Open computer disk and select the disk of device. Go to the DCIM folder and find the folder named after the capture year and month. For example, if you capture a picture or record a video on June 2023, go to DCIM -> 202306 to find the picture or video.
- 3. Select and copy the files to PC.
- 4. Disconnect the device from your PC.



Note

- The device displays images when you connect it to PC. But functions such as recording, capturing and hotspot are disabled.
- When you connect the device to PC for the first time, it installs the drive program automatically.

7 System Settings

7.1 Adjust Date

Steps

- 1. Hold the wheel to show the menu.
- 2. Go to Range 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

Step

- 1. Hold the wheel to show the menu.
- 2. Go to Radvanced 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 Radian 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.

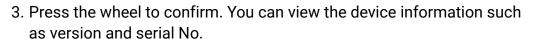
Steps

- 1. Hold the wheel to show the menu.
- 2. Go to Radian Advanced Settings, and rotate the wheel to select Radian .
- 3. 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 View Device Information

Steps

- 1. Hold the wheel to show the menu.
- 2. Go to Real Advanced Settings, and rotate the wheel to select (i).



4. Hold the wheel to save settings and exit.

7.6 Restore Device

Steps

- 1. Hold the wheel to show the menu.
- 2. Go to Range Advanced Settings, and rotate the wheel to select .
- 3. Press the wheel to restore all the parameters (except reticle) of 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 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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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



Directive 2006/66/EC and its amendment 2013/56/EU (Battery Directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

INFORMATIONEN FÜR PRIVATE HAUSHALTE

1. Getrennte Erfassung von Altgeräten:

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 Sammel- und Rückgabesysteme.

2. Batterien und Akkus sowie Lampen:

Besitzer von Altgeräten haben Altbatterien und Altakkumulatoren, die nicht vom Altgerät umschlossen sind, die zerstörungsfrei aus dem Altgerät entnommen werden können, im Regelfall vor der Abgabe an einer Erfassungsstelle vom Altgerät zu trennen. Dies gilt nicht, soweit Altgeräte einer Vorbereitung zur Wiederverwendung unter Beteiligung eines öffentlich-rechtlichen Entsorgungsträgers zugeführt werden.

3. Möglichkeiten der Rückgabe von Altgeräten:

Besitzer von Altgeräten aus privaten Haushalten können diese bei den Sammelstellen der öffentlich-rechtlichen Entsorgungsträger oder bei den von Herstellern oder Vertreibern im Sinne des ElektroG eingerichteten Rücknahmestellen unentgeltlich abgeben. Rücknahmepflichtig sind Geschäfte mit einer Verkaufsfläche von mindestens 400 m² für Elektround Elektronikgeräte sowie diejenigen Lebensmittelgeschäfte mit einer Gesamtverkaufsfläche von mindestens 800 m², die mehrmals pro Jahr oder dauerhaft Elektro- und Elektronikgeräte anbieten und auf dem Markt bereitstellen. Dies gilt auch bei Vertrieb unter Verwendung von Fernkommunikationsmitteln, wenn die Lager- und Versandflächen für Elektro- und Elektronikgeräte mindestens 400 m² betragen oder die gesamten Lager- und Versandflächen mindestens 800 m² betragen. Vertreiber haben die Rücknahme grundsätzlich durch geeignete Rückgabemöglichkeiten in zumutbarer Entfernung zum jeweiligen Endnutzer zu gewährleisten. Die Möglichkeit der unentgeltlichen Rückgabe eines Altgerätes besteht bei rücknahmepflichtigen Vertreibern unter

anderem dann, wenn ein neues gleichartiges Gerät, das im Wesentlichen die gleichen Funktionen erfüllt, an einen Endnutzer abgegeben wird.

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
Ti	Provides additional information to emphasize or
□ Note	supplement important points of the main text.
^	Indicates a potentially hazardous situation, which if not
Caution	avoided, could result in equipment damage, data loss,
	performance degradation, or unexpected results.
A	Indicates a hazard with a high level of risk, which if not
L Danger	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

- The input voltage for the device should meet the Limited Power Source (5 VDC, 2 A) according to the IEC61010-1 or IEC 62368-1 standard.
 Please refer to actual products and technical specifications for detailed information.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid overheating or fire hazards caused by overload.
- The power source should meet limited power source or PS2 requirements according to IEC 62368-1 standard.

Battery

- The external rechargeable battery type is 18650, and the battery size should be 19 mm × 70 mm. The rated voltage is 3.635 VDC, 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.
- 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.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- Make sure the battery temperature is between 0°C to 45°C (32°F to 113°F) when charging.

- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Dispose of used batteries according to the instructions.
- Confirm there is no flammable material within 2 m of the charger during charging.
- DO NOT place the battery in the reach of children.
- DO NOT swallow the battery to avoid chemical burns.

Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Clean the lens with soft and dry cloth or wiping paper to avoid scratching it.

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).

Emergency

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

Thermal Scope User Manual

Manufacture Address

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Hangzhou Microimage Software Co., Ltd.

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