HIKMICRO

User Manual

Thermal Clip-On

THUNDER 4.0 SERIES

V6.3.2 202610

Contact Us

CONTENTS

1 Overview 1
1.1 Device Description 1
1.2 Main Function 1
1.3 Appearance 1
2 Preparation 4
2.1 Install Battery 4
2.1.1 Battery Instruction 4
2.1.2 Change Battery 4
2.2 Connect Device 5
2.3 Install Monocular Eyepiece 6
2.4 Install Adapter 6
2.5 Remove Adapter 7
2.6 Install Daylight Scope 7
2.7 Power Switch 8
2.8 Auto Screen Off 8
2.9 Menu Description 9
2.10 App Connection 10
2.11 Firmware Status 11
2.11.1 Check Firmware Status 11
2.11.2 Upgrade Device 12
2.12 Calibrate Image (Overview) 13
2.13 Reference Line (Overview) 13
3 Image Settings 15
3.1 Adjust Focus 15
3.2 Adjust Brightness 15
3.3 Adjust Contrast 16
3.4 Adjust Tone 16
3.5 Adjust Sharpness 17
3.6 Set Palettes 17
3.6.1 Custom Enabled Palettes 17
3.6.2 Switch Palettes 18
3.7 Switch Eyepiece Type 20
3.8 Adjust Digital Zoom 21
3.9 Set Picture in Picture Mode 21
3.10 Flat Field Correction 22
3.11 Correct Defective Pixel 22
3.12 Switch Image Calibration Profiles 23
3.13 Calibrate Image 23
3.14 Reference Line 25
3.15 Ballistic Calculation for Hunting 27
4 Measure Distance 29

5 General Settings 31

5.1 Set OSD 31
5.1.1 Set Pure Recording Mode 31
5.2 Set Brand Logo 31
5.3 Burning Prevention 32
5.4 Capture and Video 32
5.4.1 Capture Picture 32
5.4.2 Set Audio 32
5.4.3 Record Video 32
5.4.4 Prerecord Video 33
5.4.5 Local Album 34
5.5 Export Files 34
5.5.1 Export Files via HIKMICRO Sight 34
5.5.2 Export Files via PC 35

6 System Settings 37

6.1 Adjust Date 37
6.2 Adjust Time 37
6.3 Set Language 37
6.4 Set Unit 38
6.5 Video Output 38
6.6 Set Screen Lock Passcode 38
6.6.1 Enable Passcode 38
6.6.2 Change Passcode 39
6.7 View Device Information 39
6.7.1 Set Simple Menu Mode 40
6.8 Restore Device 40
6.9 Reset Device 40

7 Frequently Asked Questions 41

7.1 Why is the monitor off? 41
7.2 Capturing or recording fails. What's the problem? 41
7.3 Why the PC cannot identify the device? 41

1 Overview

1.1 Device Description

HIKMICRO THUNDER 4.0 delivers significant upgrades in the series with industry-leading ≤12 mK thermal sensitivity, enhanced Image Pro algorithm processing, a more compact and ergonomic design, and integrated in-lens LRF. Led by the new 1280 flagship, the THUNDER family enters the 1280 era, delivering greater image detail, improved usability and enhanced confidence for demanding hunters.

1.2 Main Function

- **Zoom Pro**: With Zoom Pro, the details of zoomed live view image will be enhanced.
- **Local Album**: Local album stores captured images and recoil-activated videos, which help you clarify whether you get the game immediately.
- **Distance Measurement:** Available on LRF model. The device can measure the distance between the target and observation position.
- **Recoil-activated Video with Audio:** the device can automatically start recording before the recoil-activation and end recording after the recoil-activation.
- **Calibrate Image:** You can adjust and save the position of the image window for different users.
- **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.
- **App Connection:** The device can capture snapshots, record videos, and set parameters by HIKMICRO Sight app after being connected to your phone via hotspot.

1.3 Appearance

The appearance may vary according to different models. Please take the actual product for reference.

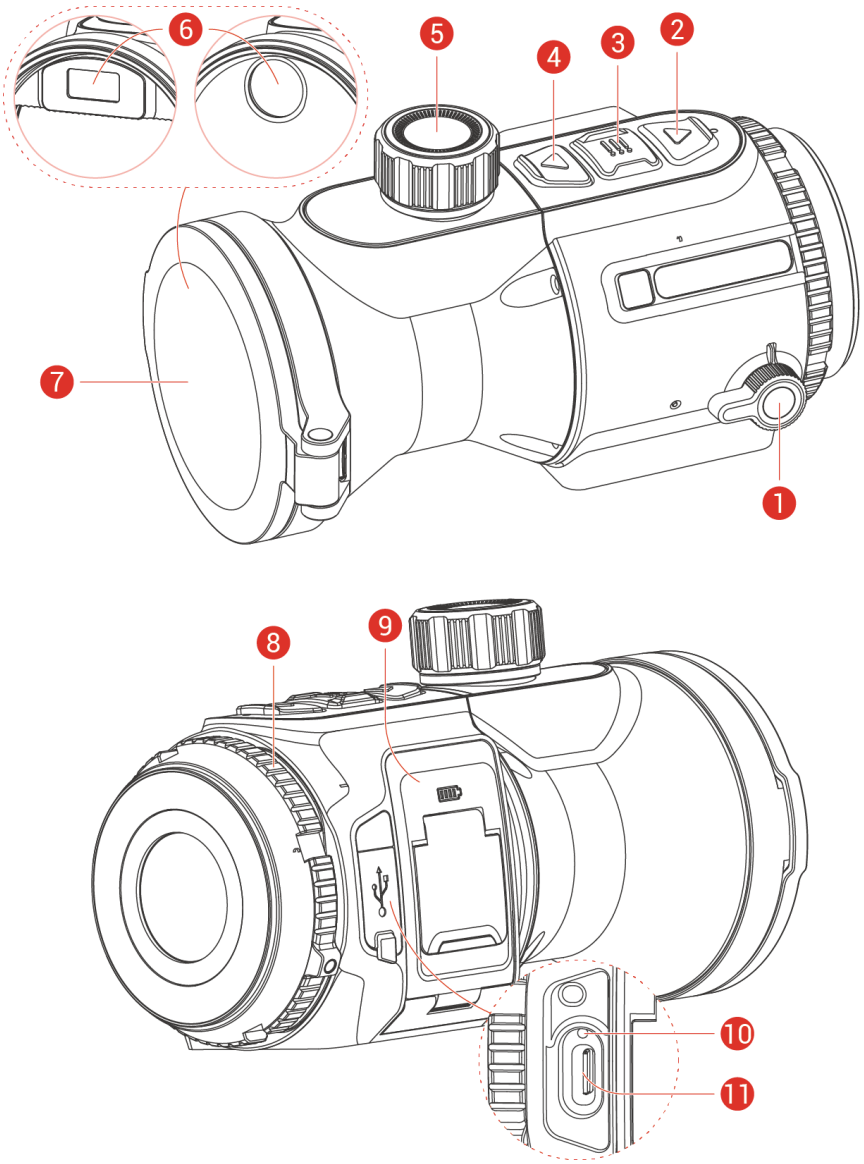


Figure 1-1 Appearance

Table 1-1 Component Descriptions

No.	Component	Description
1	Power Switch	Switch the device to ON/S (Sleep)/OFF state. ** The power indicator stays solid red when the device is on.*
2	▽ Down Key (Clip-On Mode)	Non-Menu Mode: ● Press: Turn on laser ranging. ● Hold: Show/Hide OSD (On Screen Display). ● Double-Press: Turn off laser ranging. Menu Mode: Move down.

	▽ Down Key (Monocular Mode)	Non-Menu Mode: ● Press: Turn on laser ranging. ● Hold: Switch digital zoom. ● Double-Press: Turn off laser ranging. Menu Mode: Move down.
3	Mode Key	Non-Menu Mode: ● Press: Switch palettes. ● Hold: Enter the menu. Menu Mode: ● Press: Confirm/Set parameters. ● Hold: Save and exit menu.
4	△ Up Key	Non-Menu Mode: ● Press: Capture snapshots. ● Hold: Start/Stop recording videos. ● Double-Press: Correct non-uniformity of display (Flat Field Calibration, FFC). Menu Mode: Move up.
5	Focus Knob	Adjusts focus to obtain clear targets.
6	Laser Range Finder	LRF module in the lens. Measures the distance to the target with laser. ** The LRF module may vary due to different device models.*
7	Lens Cover	Protects the lens.
8	Fixing Ring	Holds the clip-on eyepiece in place.
9	Battery Compartment	For holding the battery.
10	Charging Indictor	Indicates the charging status of the device. ● Solid Red: Charging. ● Solid Green: Fully charged. ● Flashing Red & Green: Error occurred.
11	Type-C Interface	To connect the device to power supply or transmit data with a type-C cable.

Note

- Hold △ + ▽ in the live view to switch the device between Clip-On and Monocular mode.
- When the auto screen off function is enabled, you can tilt or rotate the device to wake up the device. Refer to ***Auto Screen Off*** for detailed operation.

2 Preparation

2.1 Install Battery

2.1.1 Battery Instruction

- The device supports removable Li-ion battery. The charging limited voltage of the battery is 4.4 V. The battery capacity is 3.85 V/4 Ah (15.4 Wh).
- Charge the battery for more than 4 hours before first use.
- The charging temperature should be from 0 °C to 45 °C (32 °F to 113 °F).
- Remove the battery if the device is not used for a long time.

2.1.2 Change Battery

Before You Start

Ensure to power off the device before removing the battery.

Steps

1. Lift the battery compartment cover handle (1) and pull the battery compartment cover outwards (2).

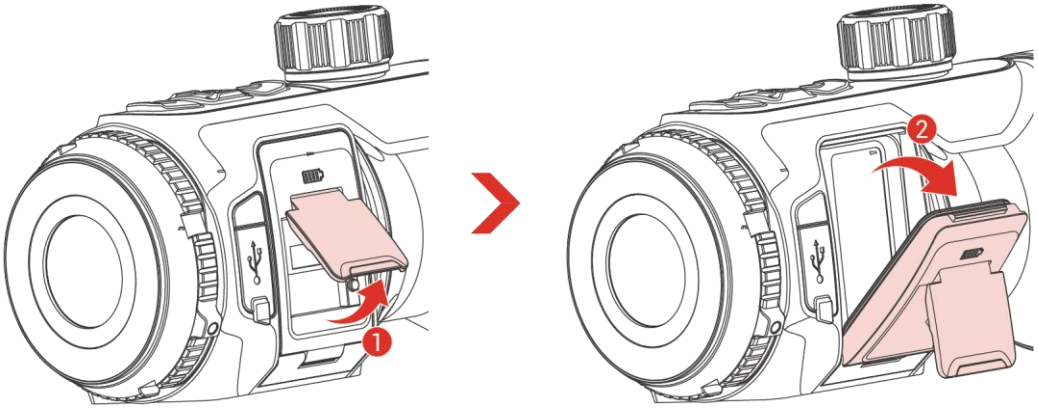


Figure 2-1 Open the Battery Compartment Cover

2. Push the battery latch aside (1), release and take out the used battery (2).

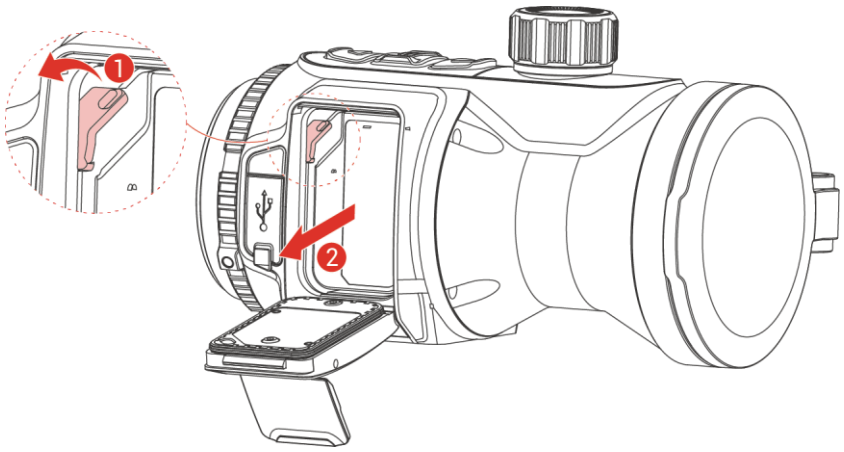


Figure 2-2 Release the Used Battery

3. Install a new battery until the latch locks the battery in place.

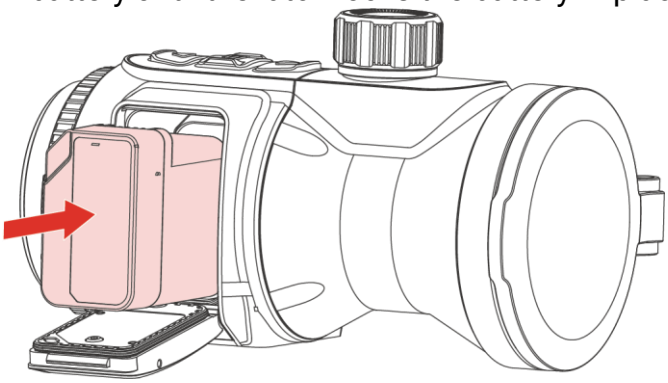


Figure 2-3 Insert the Battery

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

2.2 Connect Device

Steps

1. Lift the cable interface cover.
2. Connect the device and power adapter with a type-C cable to power on the device. Alternatively, connect the device and PC to export files.

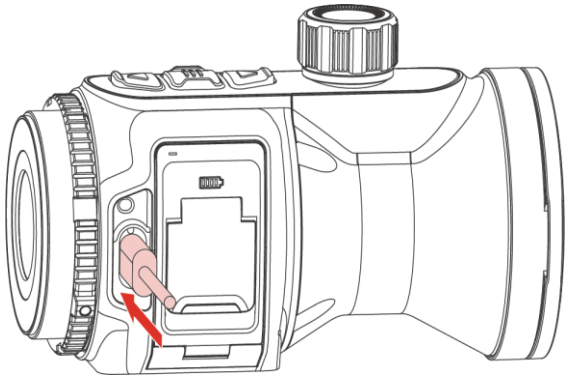


Figure 2-4 USB Connection

2.3 Install Monocular Eyepiece

Steps

1. Rotate the eyepiece clockwise until it is tightened securely.

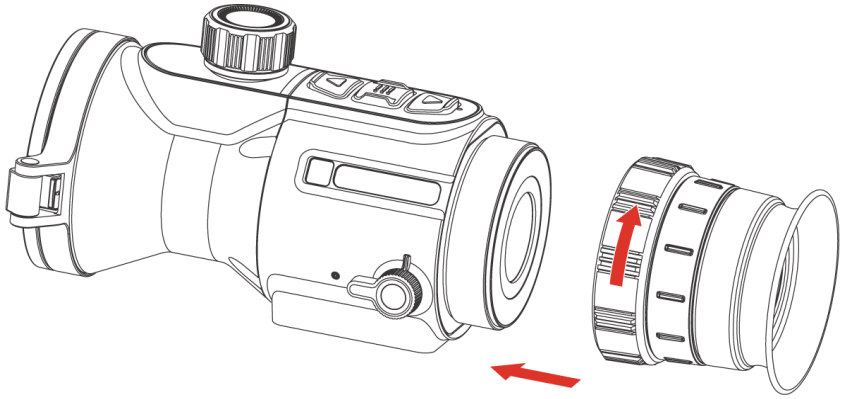


Figure 2-5 Install Eyepiece

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

Note

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

2.4 Install Adapter

Install an adapter if you want to connect the device to a daylight scope.

Steps

1. Rotate the adapter clockwise until it is tightened securely.

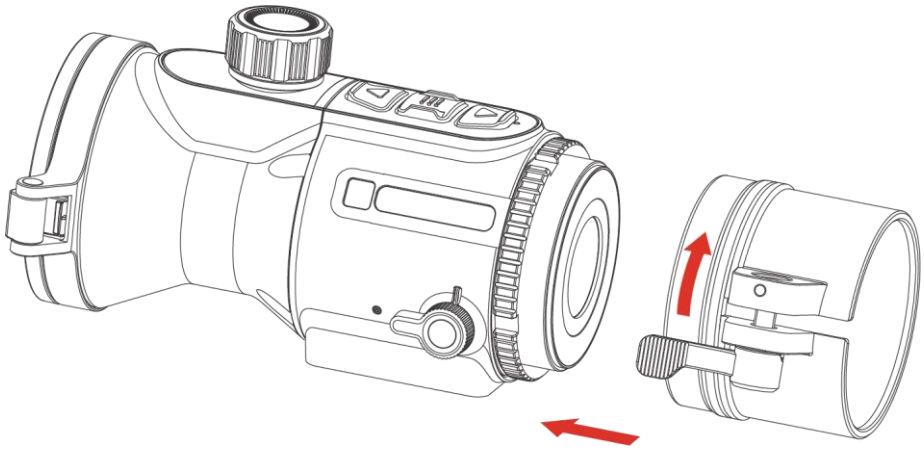


Figure 2-6 Install Adapter

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

Note

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

2.5 Remove Adapter

Steps

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

2.6 Install Daylight Scope

You can use the device together with a daylight scope to view the target clearly in daytime.

Steps

1. Install the daylight scope into the adapter (1).
2. Rotate the lever to lock the buckle and fix the daylight scope (2).
3. Rotate the lever in the opposite direction to loosen the buckle and remove the daylight scope.

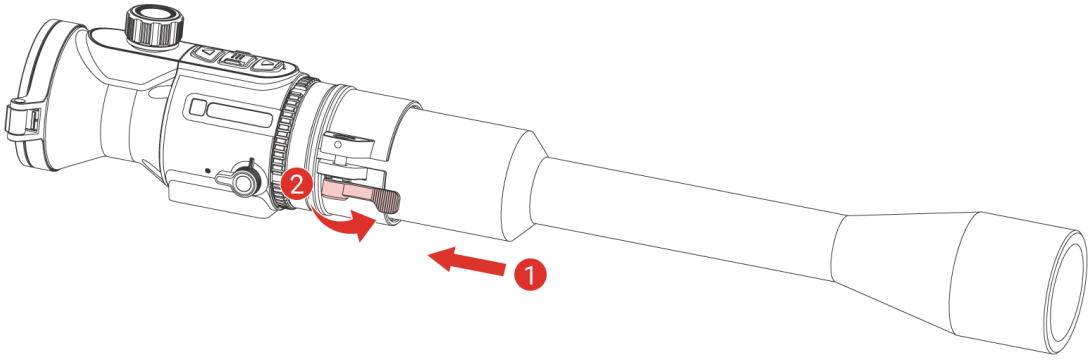


Figure 2-7 Install Daylight Scope

Note

- If the buckle overlaps the scope and cannot be locked in place, tighten the fixing ring slightly to lock the buckle.
- The daylight scope is not included in the package. Please purchase it separately as needed.

2.7 Power Switch

By rotating the power switch, you can switch the device to ON/S (Sleep)/OFF state.

Note

- See the battery icon for the battery status. means the battery is fully charged, means that the battery is low, and means the battery charging is abnormal.
- When the low power note shows, charge the battery.

2.8 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 to show the menu.
   2) Go to **Advanced Settings**, and press or to select .
   3) Press to enable auto screen off.
   4) Hold to save settings and exit.

2. The device will enter standby mode by 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°.
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 70° or upwards.
   - Rotate the device horizontally from 0° to 40°.
   - Press to wake up the device.

2.9 Menu Description

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

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

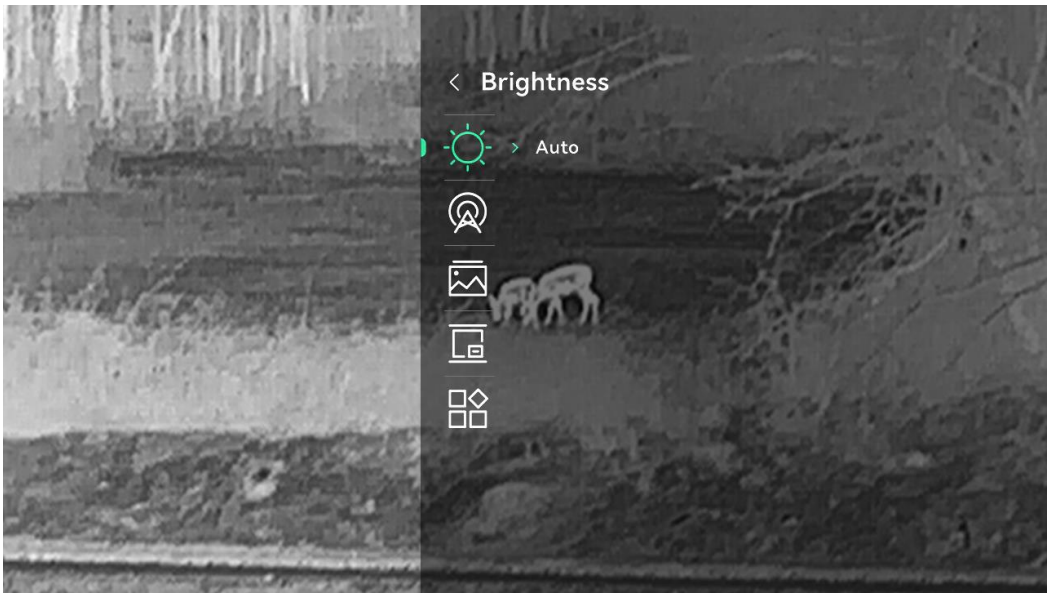


Figure 2-8 Device Menu (Clip-On Mode)

Figure 2-9 Device Menu (Monocular Mode)

2.10 App Connection

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

Before You Start

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

Steps

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

Android System

iOS System

2. Hold to show the menu.
3. Press or to select .
4. Press to enter the setting interface.

5. Press △ or ▽ to select **Hotspot_5G** or **Hotspot_2.4G**. The hotspot function is enabled and the hotspot password is displayed.
   - **Hotspot_2.4G**: Select this option if your phone is not equipped with 5 GHz Wi-Fi.
   - **Hotspot_5G**: Recommended for small-range scenarios within 5 m, such as mounting the device on a vehicle. Otherwise, use **Hotspot_2.4G**.
6. Turn on the WLAN of your phone and connect to the hotspot.
   - Hotspot Name: HIKMICRO_Serial No.
   - Hotspot Password: Check **Hotspot** in the menu for the password.
7. Open the app, and confirm the connection PIN code on the device to connect your phone with the device. You can view the interface of device on your phone.

Note

- When the device is connected to your phone, you can change the hotspot password via the HIKMICRO Sight app.
- The hotspot will be turned off if there is no connection for over 10 minutes.
- The hotspot password will be updated when you reset the device (refer to ***Reset Device***). In this case, you need to reconnect to the device hotspot.

2.11 Firmware Status

2.11.1 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.

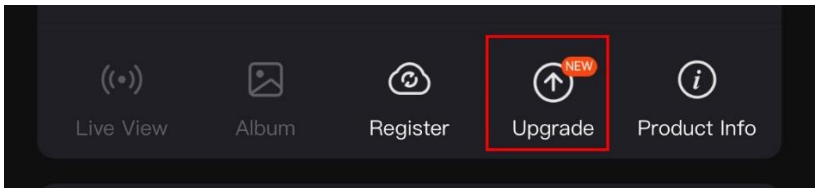


Figure 2-10 Check Firmware Status

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

2.11.2 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. Hold to show the menu.
2. Go to **Advanced Settings**, and press or to select .
3. Press to enter the configuration interface.
4. Press or 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.

2.12 Calibrate Image (Overview)

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

Note

This function is only available in Clip-On mode.

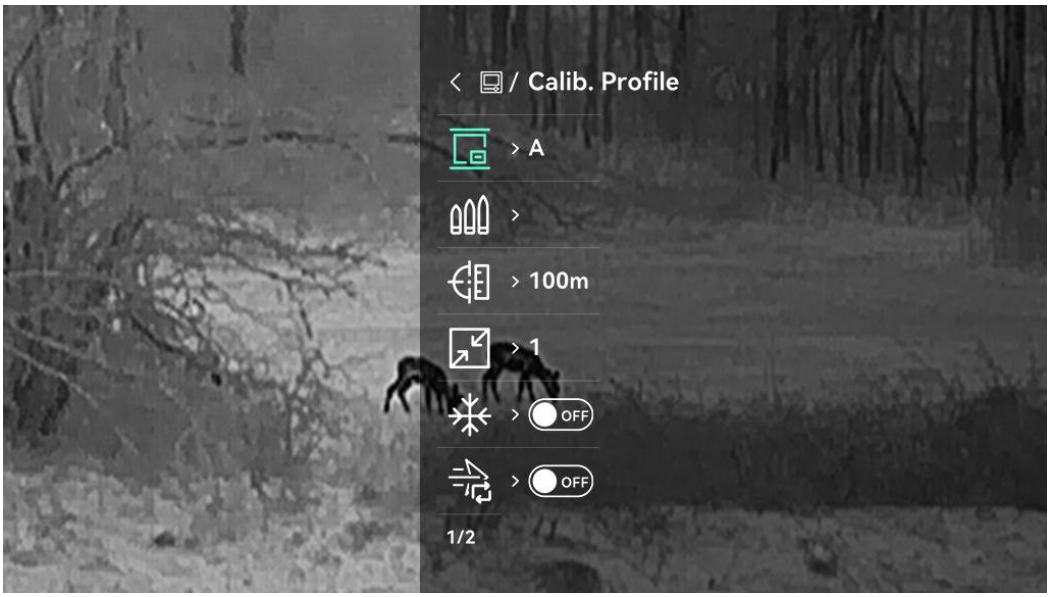


Figure 2-11 Image Calibration

2.13 Reference Line (Overview)

The reference line can help you aim at the target with high accuracy. See ***Reference Line*** for detailed instructions.

Note

- This function is only available in Clip-On mode.
- When switching image calibration profiles, the reference line profile linked to the image calibration profile will be auto-applied.

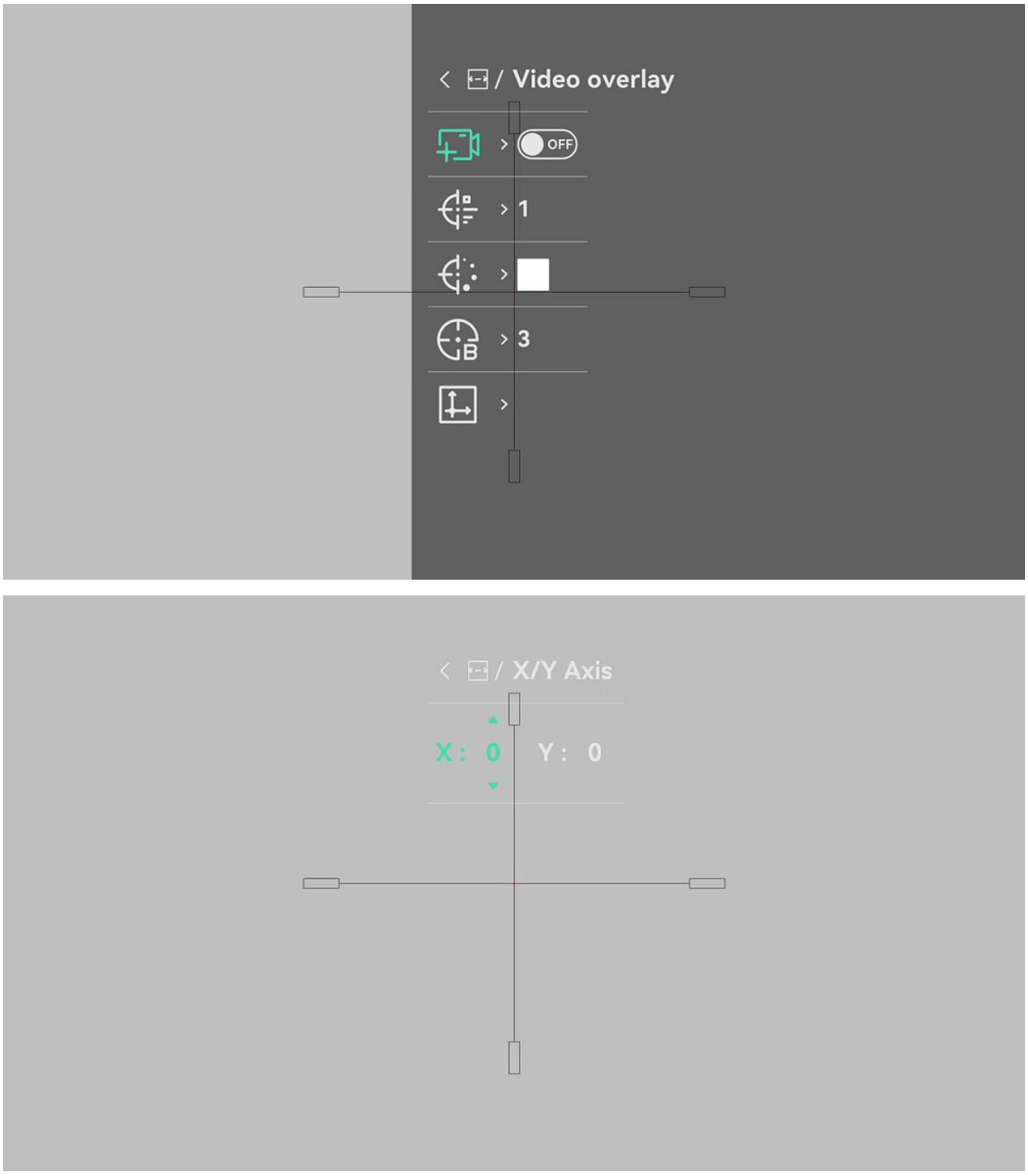


Figure 2-12 Reference Line

3 Image Settings

3.1 Adjust Focus

Steps

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

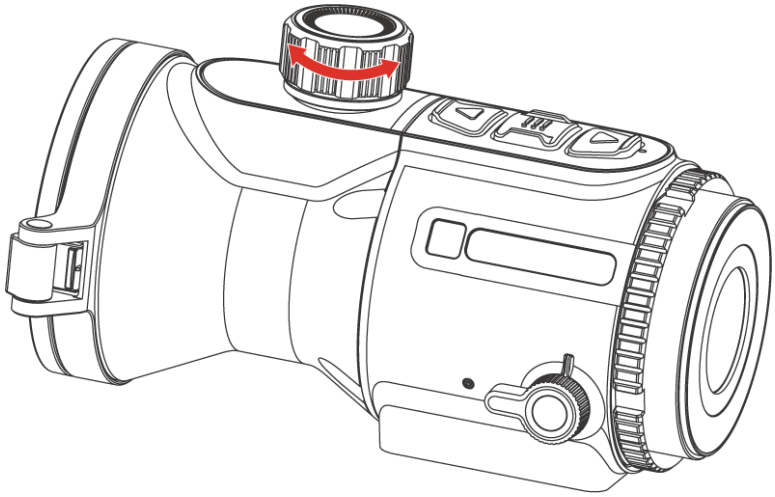


Figure 3-1 Adjust Focus

Note

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

3.2 Adjust Brightness

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

Steps

1. Hold to show the menu.
2. Press △ or ▽ to select and press to confirm.
3. Press △ or ▽ to adjust display brightness.
4. Hold to save the settings and exit.

3.3 Adjust Contrast

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, select and press to confirm.
3. Press or to adjust contrast.
4. Hold to save and exit.

3.4 Adjust Tone

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, select and press to confirm.
3. Press or to select a tone. **Warm** and **Cold** can be selected.
4. Hold to save and exit.

Figure 3-2 Warm Tone

Figure 3-3 Cold Tone

3.5 Adjust Sharpness

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, select and press to confirm.
3. Press or to adjust sharpness.
4. Hold to save and exit.

Figure 3-4 Sharpness 1

Figure 3-5 Sharpness 5

3.6 Set Palettes

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

3.6.1 Custom Enabled Palettes

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, press or to select .
3. Press to enter the settings interface.
4. Press or to select the palettes as needed, and press to enable them.

Note

At least one palette should be enabled.

5. Hold to save the settings and exit.

3.6.2 Switch Palettes

Press 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.

Fusion

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

Red Hot

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

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.

3.7 Switch Eyepiece Type

Hold △ + ▽ in the live view to switch the device between Clip-On and Monocular mode. You can also switch eyepiece type by the following steps.

Steps

1. Hold ☰ to show the menu.
2. Go to **Advanced Settings**, and press △ or ▽ to select .
3. Press ☰ to enter the setting interface.
4. Press △ or ▽ to switch the eyepiece type.

- **Clip-On**: You can install an adaptor and a daylight scope in this mode.
- **Monocular**: You can install a monocular eyepiece to use the device as a regular monocular.

5. Hold to save the settings and exit.

3.8 Adjust Digital Zoom

You can zoom in and out the image by using this function. Hold ▽ in the live view interface to switch the digital zoom ratio, and the actual zoom ratio switches between 1×, 2×, 4×, and 8×.

Note

- This function is only available in Monocular mode.
- When switching the digital zoom ratio, the left interface displays the actual magnification (Actual Magnification = Lens Optical Magnification × Digital Zoom Ratio). For example, the lens optical magnification is 2.4× and the digital zoom ratio is 2×, and the actual magnification is 4.8×.
- The zoom ratio may vary according to different models. Please take the actual product for reference.

3.9 Set Picture in Picture Mode

Steps

1. Hold to show the menu.
2. Press △ or ▽ to select .
3. Press to enable this function.

Result

- When laser ranging is enabled, the PIP view centers on the laser rangefinding reticle.
- When laser ranging is disabled, the PIP view is the detail of the live view image center.

Figure 3-6 Set PIP Mode

Note

- This function is only available in Monocular mode.
- If the PIP function is enabled, only the PIP view zooms when adjusting the digital zoom ratio.
- The rangefinding reticle is only available on specified models. Please take the actual product for reference.

3.10 Flat Field Correction

This function can correct non-uniformity of display. The device performs the correction automatically when necessary, or you can double-press △ in the live view to perform the correction manually.

3.11 Correct Defective Pixel

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

Steps

1. Hold ☰ to show the menu.
2. Go to **Advanced Settings**, press △ or ▽ to select .
3. Press ☰ to enter the DPC setting interface.
4. Press ☰ to select the X or Y axis, and press △ or ▽ to set the coordinates until the cursor reaches the dead pixel. If you select X, the

cursor moves left and right; if you select Y, the cursor moves up and down.

5. Double-press to correct the defective pixel.
6. Hold to save and exit.

Note

- The selected defective pixel can be magnified on the display.
- If the screen OSD blocks the defective pixel, move the cursor to reach the defective pixel, then the device performs mirror display automatically.

3.12 Switch Image Calibration Profiles

When switching image calibration profiles, the image calibration and reference line settings linked to the profile will be applied synchronously. You can save the settings for different users via different calibration profiles.

Steps

1. Hold to show the menu.
2. Press △ or ▽ to select .
3. Press to enter the setting interface.
4. Press △ or ▽ to select a calibration profile.
5. Hold to save and exit.

Note

The selected image calibration profile will be restored to the default one if you restore the device settings. Refer to ***Restore Device***.

3.13 Calibrate Image

This function helps to align the images of THUNDER 4.0 and your additional device (e.g. a daylight scope), which is necessary to keep the aiming accuracy.

Note

This function is only available in Clip-On mode.

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and press △ or ▽ to select .
3. Press to enter the setting interface.
4. Select , press and press △ or ▽ to set the menu display size.
5. Select , press and press △ or ▽ to switch calib. profiles.
6. Select and press to edit the bullet name.

   Press to switch characters and press △ or ▽ to set each character.
7. Select and press to enable/disable Recoil Sensitivity Calibration.

Note

- The device is shipped with the default recoil sensitivity, which is suitable for most scenarios.
- If you find that the current recoil sensitivity is not suitable, please enable the Recoil Sensitivity Calibration, stay on the image calibration page, trigger an activation and wait for the device to update recoil sensitivity.
- Please turn off Recoil Sensitivity Calibration after the operation.

8. Select , press and press △ or ▽ to set the distance to the target.
9. (Optional) Select to freeze the image. You can also select to set the countdown time of auto freezing.
10. Select and press to select X or Y axis, and then press △ or ▽ to set the coordinates until the window reaches the target position.

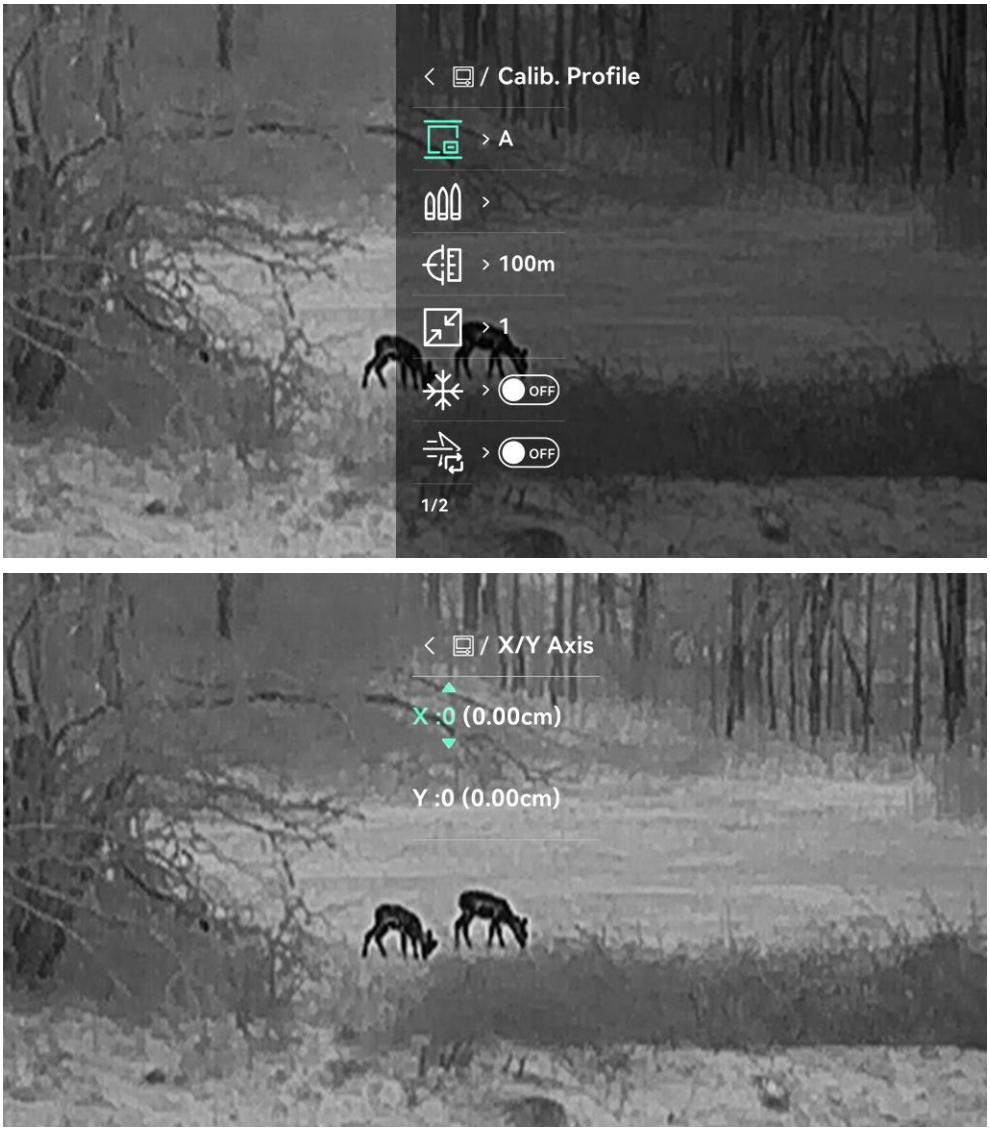


Figure 3-7 Image Calibration

11. Hold to exit image calibration.

3.14 Reference Line

The reference line can help you aim at the target with high accuracy.

Note

- This function is only available in Clip-On mode.
- Due to laws and regulations, the live view will be suspended when enabling the reference line. (This prompt also pops up when entering **Ref. Line** interface. Press any key to close it.)
- When switching image calibration profiles, the reference line profile

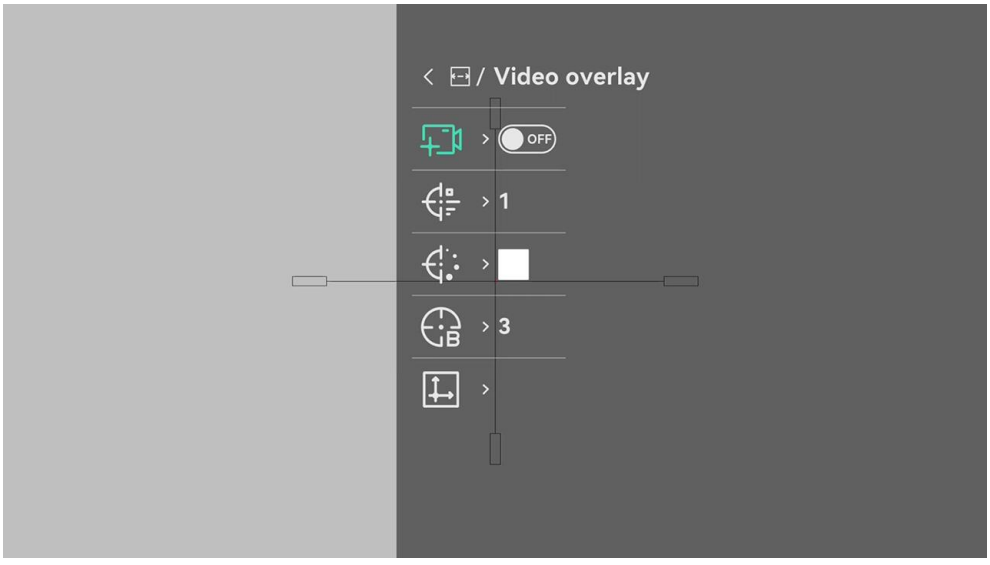
linked to the image calibration profile will be auto-applied.

Before You Start

1. Switch the device to Clip-On mode.
2. Enable the prerecording video. See ***Prerecord Video***.
3. Keep your devices steady and trigger an activation.

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press to enter the setting interface.
4. Select to enable the video overlay. You can view the prerecorded video when enabling this function.
5. Select and to set the reference line type and color.
6. Select to set the reference line opacity.
7. Select to adjust the reference line position. Press to switch **X** and **Y** axis, and press △ or ▽ to set the coordinates until the reference line aligns with the point of impact.



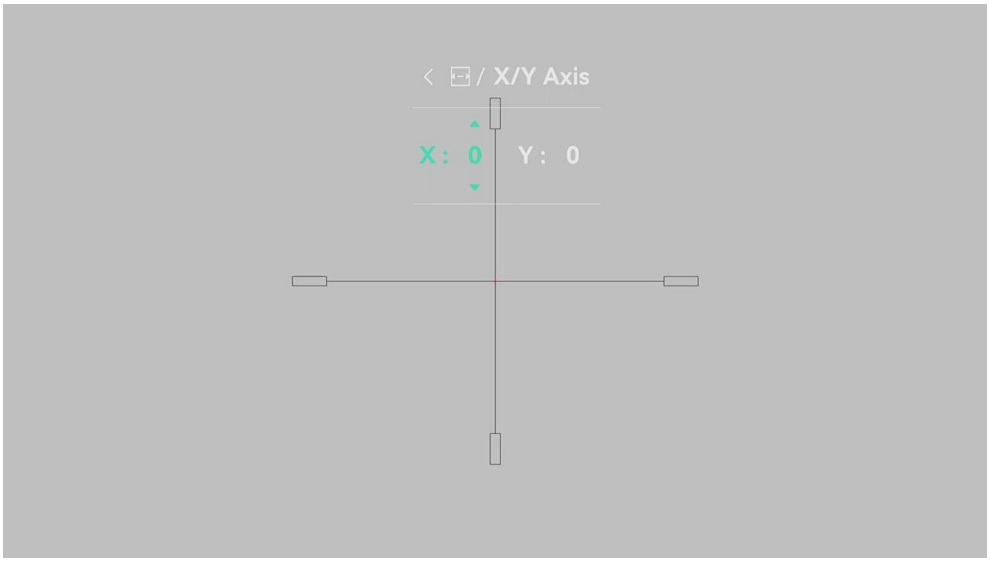


Figure 3-8 Adjust Reference Line

8. Trigger an activation again to verify that the aiming point aligns with the point of impact.
9. Hold to exit the interface according to the prompt.
   - **OK**: Save the parameters and exit.
   - **CANCEL**: Exit without saving the parameters.

3.15 Ballistic Calculation for Hunting

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 specific models in Clip-On mode. Please take the actual product for reference.

Before You Start

Ensure you have finished setting Image Calibration and Reference Line.

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and press or to select **Ballistic Calculation**. Press to enter the setting interface.
3. Press to enable Ballistic Calculation.

4. Select **Aim Point Color**. Press and press △ or ▽ to set the aim point color.
5. Select and press to enter the parameter configuration interface. Press △ or ▽ to select the following parameters, and press 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.
   - Wind Direction/Speed: Set the current wind direction and speed.
6. Press to switch digit, and press △ or ▽ to change the number.
7. Hold to save and exit.
8. In the live view, press ▽ to turn on laser ranging, aim the rangefinding reticle at the target, and press ▽ again to measure the target distance. The screen will display the recommended aiming point, drop distance and windage.
9. (Optional) Refer to ***Calibrate Image*** adjust the distance, and repeat the above steps.

Note

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

4 Measure Distance

The device is with an LRF module in the lens and 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 to show the menu.
2. Go to **Advanced Settings**, press or to select .
3. Press to enter the setting interface.
4. Go to to select a laser ranging mode and press 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 1 s.
5. (Optional) Select and press to enable/disable the THD display. When enabled, the THD (True Horizontal Distance) to the target will be displayed when performing laser ranging.
6. Set **Rangefinding Reticle Style** and **Rangefinding Reticle Color** according to your necessity. Press to enter the menu and press or to select the rangefinding reticle style and color.

Note

The rangefinding reticle settings are only available on specified models. Please take the actual product for reference.

7. Hold to return to the live view interface.
8. Press to turn on laser and aim at the target.
9. Press again to measure the distance to the target.

Note

- Double-press in the live view interface to turn off laser ranging.

- 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.
- Laser ranging cannot be enabled when device battery is low.

Result

The distance measurement result is displayed on the image.

Figure 4-1 Distance Measurement Result

- When THD is enabled, the straight-line distance is displayed first, followed by the THD. E.g., 156yd above is the straight-line distance and ∠136yd is the THD.
- The ranging result will be displayed as “000” if laser ranging fails.

Caution

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

5 General Settings

5.1 Set OSD

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press to enter OSD setting interface.
4. Press or to select the **Time**, **Date**, **Calib. Profile**, **Battery** or **OSD**, and press to turn on or turn off the selected item.
5. Hold to save and exit.

5.1.1 Set Pure Recording Mode

On the OSD settings interface, hold and to enable/disable **Pure Recording Mode**.

In this mode, no OSD information will be displayed when video recording is in progress (including recoil-activated prerecording video), even **OSD** is enabled.

5.2 Set Brand Logo

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

Steps

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

Result

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

5.3 Burning Prevention

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press to enable or disable the **Burn-Prevention** function.
4. Hold to save settings and exit.

5.4 Capture and Video

5.4.1 Capture Picture

In the live view mode, press △ to capture a picture.

Note

- When capturing succeeds, the image freezes for 1 second and a prompt shows on the display.
- For exporting captured pictures, refer to ***Export Files***.

5.4.2 Set Audio

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press to enable or disable this function.
4. Hold to save and exit.

5.4.3 Record Video

Steps

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

Figure 5-1 Record Video

2. Hold △ again to stop recording.

Note

In **Pure Recording Mode**, no OSD information will be displayed when video recording is in progress. Refer to ***Set OSD*** to enable/disable this mode.

5.4.4 Prerecord Video

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

Note

This function is only available in Clip-On mode.

Steps

1. Hold ☰ to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press ☰ to enter the setting interface. Press △ or ▽ to switch the video recording time before and after the recoil-activation. 5+5 s, 10+10 s, 15+15 s and 15+25 s are selectable. You can also select **OFF** to turn off the function.
4. Hold ☰ to save settings and exit.

Note

In **Pure Recording Mode**, no OSD information will be displayed when video recording is in progress. Refer to ***Set OSD*** to enable/disable this mode.

5.4.5 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 to show the menu.
2. Press △ or ▽ to select and press to confirm.

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 September in 2026 are saved in the album named 202609.

3. Press △ or ▽ to select an album and press to open it.
4. Press △ or ▽ to select a file to view.
5. Press 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 are viewing files, you can switch to other files by pressing △ or ▽.
- When you are viewing videos, you can press to play or stop the video.
- For deleting an album or a file, you can press △ + to call the dialogue box, and delete the album or file according to the prompt.

5.5 Export Files

5.5.1 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.

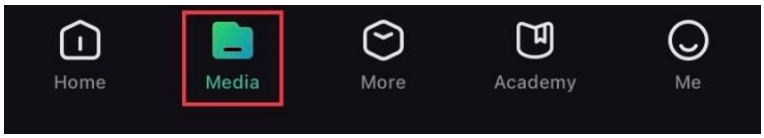


Figure 5-2 Access Device Albums

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

Note

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

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

Figure 5-3 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.

5.5.2 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 to show the menu.
2. Go to **Advanced Settings**, and press △ or ▽ to select .
3. Press to enter the configuration interface.
4. Press △ or ▽ 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.
- 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 September 2026, go to DCIM > 202609 to find the picture or video.

6. Select and copy the files to PC.
7. Disconnect the device from your PC.

Note

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

6 System Settings

6.1 Adjust Date

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press to enter the configuration interface.
4. Press to select the year, month, or day to set, and press or to change the number, then press again to finish the setting.
5. Hold to save settings and exit.

6.2 Adjust Time

Steps

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

6.3 Set Language

You can select the device language in this function.

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and select .
3. Press to enter the language configuration interface.

4. Press ▲ or ▼ to select the language as required, and press ☰ to confirm.
5. Hold ☰ to save settings and exit.

6.4 Set Unit

You can switch the unit for distance display.

Steps

1. Hold ☰ to show the menu.
2. Go to ⚙ **Advanced Settings**, and select YD/M.
3. Press ☰ to enter the configuration interface.
4. Press ▲ or ▼ to select the unit as needed.
5. Hold ☰ to save settings and exit.

6.5 Video Output

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 ☰ to show the menu.
2. Go to ⚙ **Advanced Settings**, and select 🔌.
3. Press ☰ to enter the configuration interface.
4. Press ▲ or ▼ to select **Digital** and press ☰ to confirm.
5. Hold ☰ 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.

6.6 Set Screen Lock Passcode

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

6.6.1 Enable Passcode

Steps

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

Result

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

Note

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

6.6.2 Change Passcode

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

Steps

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

6.7 View Device Information

Steps

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

4. Hold to exit.

6.7.1 Set Simple Menu Mode

Fonts and icons are enlarged in Simple Menu Mode for easier recognition.

- When the device information is displayed, hold and to enter the settings of Simple Menu Mode.
- Select Custom Simple Menu to set the menu items to be displayed in Simple Menu Mode.
- When in Simple Menu Mode, hold and on the device information interface to exit it.

6.8 Restore Device

This function only restores the device basic settings, such as brightness, contrast, PIP, and selected image calibration profile to their defaults. While image calibration and reference line parameters and local album data will not be restored.

Steps

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

6.9 Reset Device

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

Steps

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

7 Frequently Asked Questions

7.1 Why is the monitor off?

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

7.2 Capturing or recording fails. What's the problem?

Check the following items.

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

7.3 Why the PC cannot identify the device?

Check the following items.

- Whether the 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

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About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the HIKMICRO website (www.hikmicrotech.com).

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

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Regulatory Information

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

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/30/EU (EMCD), Directive 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
Wi-Fi 5 GHz (5.18 GHz to 5.24 GHz): 23 dBm
Wi-Fi 5 GHz (5.745 GHz to 5.825 GHz): 14 dBm

RF Exposure Information

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

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.

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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.

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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 5.5 Watts required by the radio equipment, and max 7.0 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 device supports removable li-ion battery. The charging limited voltage of the battery is 4.4 V. The battery capacity is 3.85 V/4 Ah (15.4 Wh).
- 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.
- 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.
- Remove the battery if you do not use the device for a long time.
- For long-term storage of the battery, make sure it is fully charged every 3 months to ensure the battery quality. Otherwise, damage may occur.
- 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.
- This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

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.
- 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.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.

Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be -30 °C to 55 °C (-22 °F to 131 °F), and the operating humidity shall be from 5% to 95%.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other bright light.
- Place the device in a dry and well-ventilated environment.
- When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.
- Avoid equipment installation on vibratory surface or places subject to shock (neglect may cause equipment damage).
- This equipment is not suitable for use in locations where children are likely to be present.

Emergency

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

Laser

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