HIKMICRO

User Manual

Digital Day & Night Vision Scope

ALPEX PRO SERIES

V6.0.10 202602

Contact Us

CONTENTS

1 Overview

HIKMICRO ALPEX PRO Digital Day & Night Vision Scope combines advanced digital imaging with a traditional scope experience, delivering reliable performance across all ambient light conditions. The classic tube-style design offers an optical-scope-like operation, allowing users to rely on familiar muscle memory and adapt seamlessly to different hunting environments, from open fields to dense forests.

- 4512 × 2512 high-resolution detector and an F1.8 aperture provide finely detailed images and accurate color reproduction in daylight.
- Light Pro algorithm improves low-light performance at dusk and night, ensuring clear target recognition.

1.1 Main Function

- **Laser Ranging (for LRF Model):** Built-in laser range finder provides an accurate distance between the target and the observation position.
- **Switch Day and Night**: Different display mode allows you to use device in different environment.
- **Zeroing**: The reticle helps you to aim at the target fast and accurately. See *Zeroing*.
- **Recoil-activated Video**: the device can automatically start recording before the recoil-activation and end recording after the recoil-activation.
- **App Connection**: The device can capture snapshots, record videos, and set parameters by HIKMICRO Sight app after being connected to your phone via hotspot.

1.2 Appearance

Note

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

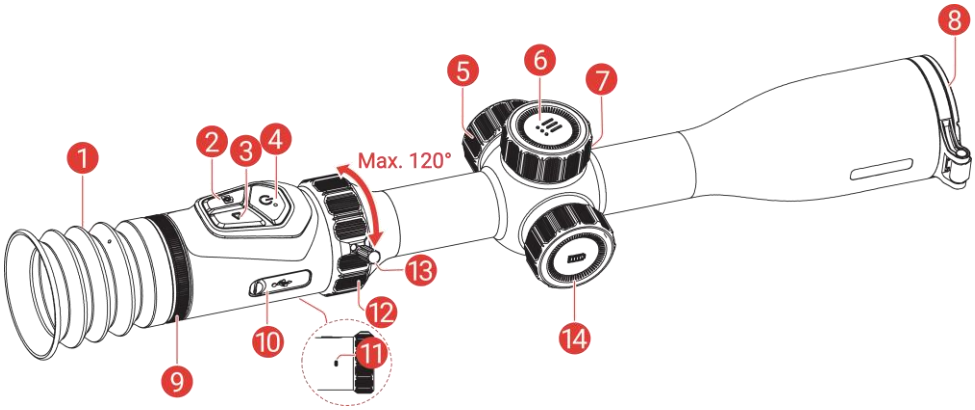


Figure 1-1 Appearance of Non-LRF Model

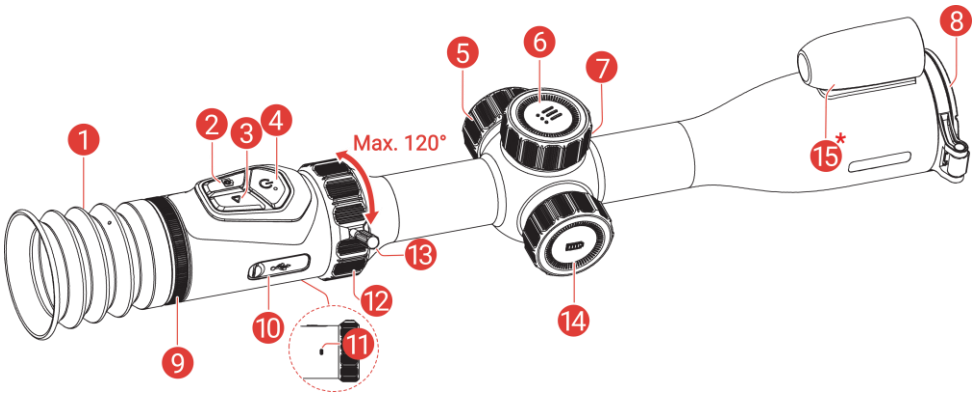


Figure 1-2 Appearance of LRF Model

Table 1-1 Description of Components

No.	Component	Description
1	Eyepiece	The piece placed closest to the eye to view the target.
2	Capture Key	● Press: Capture snapshots. ● Hold: Start/stop recording videos.
3	Laser Key/Mode Key	*For LRF Model* ● Press: Turn on laser ranging. ● Double-Press: Turn off laser ranging. ● Hold: Turn on/off PIP (Picture-in-Picture).
		For Non-LRF Model ● Press: Switch display mode. ● Hold: Turn on/off PIP (Picture-in-Picture).
4	Power Key	● Press: Standby mode/Wake up device. ● Hold: Power on/off.
5	Focus Wheel	Adjusts focus to obtain clear targets.

No.	Component	Description
6	Menu Key	**Non-Menu Mode:** Hold to enter the menu. **Menu Mode:** ● Press: Confirm/set parameters. ● Hold: Save and exit menu.
7	Wheel	**Menu Mode**: Rotate to move up/move down.
8	Digital Lens	For digital imaging.
9	Diopter Adjustment Ring	Adjusts the dioptric setting.
10	Type-C Interface	To connect the device to power supply or transmit data with a type-C cable.
11	Microphone	To record audio.
12	Digital Zoom Ring	Rotate to adjust digital zoom.
13	Removable Digital Zoom Lever	Provides additional leverage to rotate the digital zoom ring.
14	Battery Compartment	For holding the battery.
15*	Laser Rangefinder *(LRF Model)*	Measures the distance to the target with laser.
2 + 3	Capture Key + Laser/Mode Key	Hold to lock/unlock the wheel.

Note

- The power indicator stays solid red when the device is on.
- Rotate the digital zoom ring up to 120°. Do not force it beyond the position limit, as this may cause device damage.
- After removing the digital zoom lever, please keep it properly.
- When the auto screen off function is enabled, if you press to enter standby mode, you can also tilt or rotate the device to wake up the device. Refer to ***Auto Screen Off*** for detailed operation.
- When the wheel is locked/unlocked, the icon / will be displayed.
- when the wheel is locked, the menu key and the wheel are unavailable.

2 Preparation

2.1 Cable Connection

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

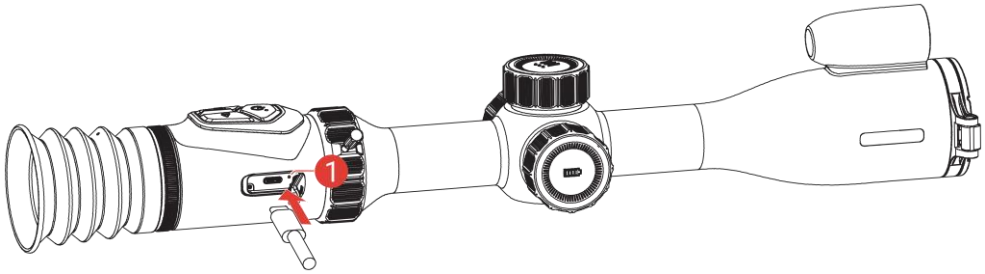


Figure 2-1 Cable Connection

Charging Status Indicator 1 indicates the charging status of the device.

- Flashing Red & Green: Error occurred.
- Solid Red: Charging.
- Solid Green: Fully charged.

Note

- Charge the device for more than 6.5 hours before first use.
- Only the built-in battery can be charged via the type-C cable. Use the battery charger to charge the external battery.
- The priority for power supply is given to the external battery first, followed by the built-in battery.
- → on the top of the battery icon / on the screen means the device is currently powered by the built-in battery/external battery.

2.2 Install Battery

2.2.1 Battery Instruction

- Remove the external battery if the device is not used for a long time.
- The device comes with an external rechargeable 18650 battery and two built-in rechargeable lithium-ion batteries.
- The external battery size should be 19 mm × 70 mm, the rated voltage is 3.635 V, and the battery capacity is 3300 mAh.
- The built-in battery size should be 23 mm × 67 mm, the rated voltage is 3.635 V, and the battery capacity is 3350 mAh.

2.2.2 Battery Installation

Insert the battery into the battery compartment.

Steps

1. Turn the battery cover counterclockwise to loosen it, and pull the cover out.

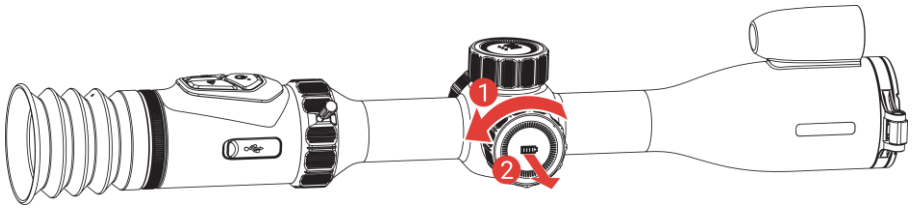


Figure 2-2 Loosen the Cover

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

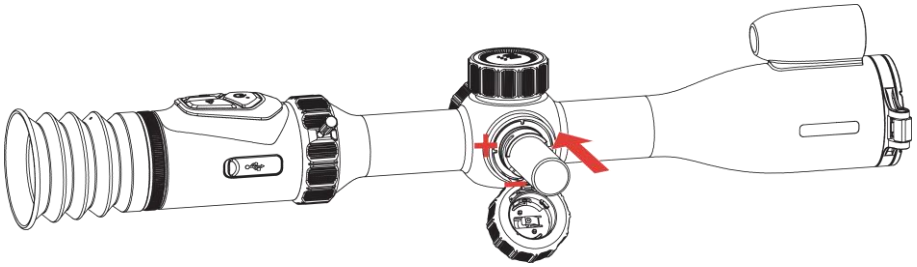


Figure 2-3 Insert the Battery

3. Push the battery cover in, and turn the cover clockwise until it is tight and locked.

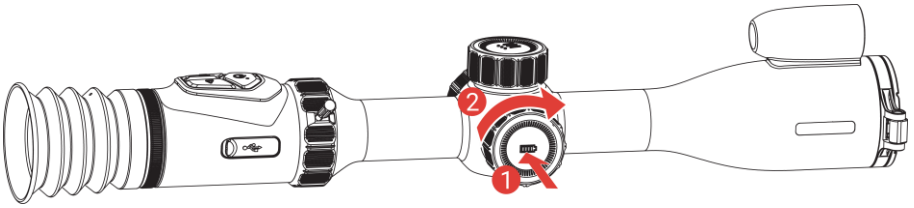


Figure 2-4 Tighten the Cover

2.3 Mount Device on Rail

Steps

1. Unscrew the ring tops with Allen wrench.

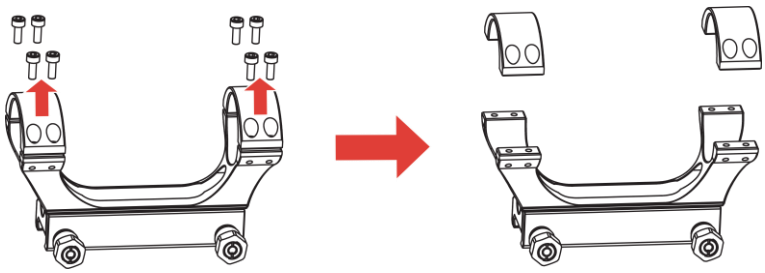


Figure 2-5 Unscrew the Ring Top

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

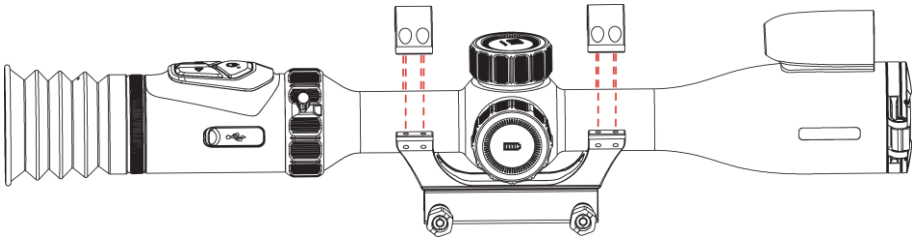


Figure 2-6 Place the Device in the Ring

3. Insert and tighten the screws.

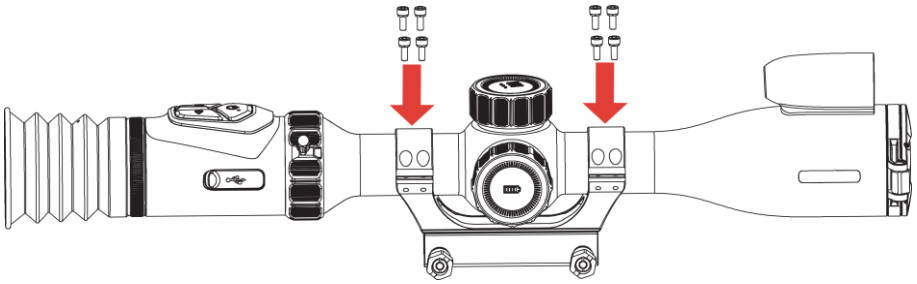


Figure 2-7 Tighten the Screws

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

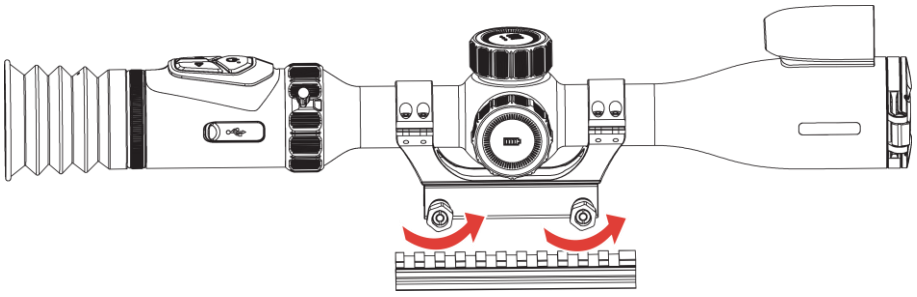


Figure 2-8 Loosen the Screws

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

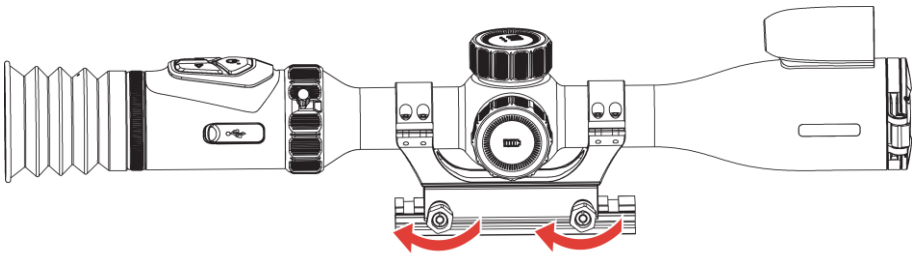


Figure 2-9 Tighten the Screws

Note

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

2.4 Install IR Torch

Steps

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

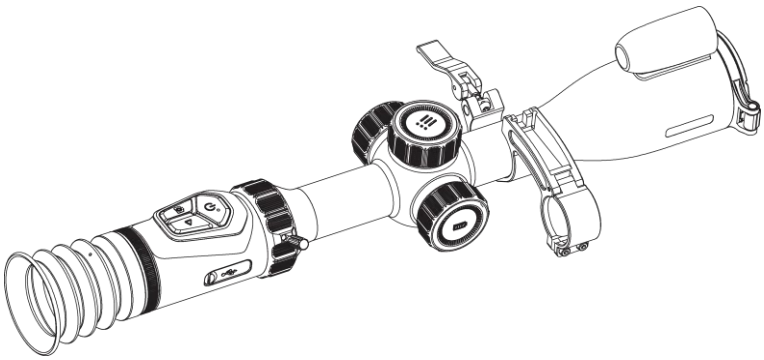


Figure 2-10 Place the Device in the IR Torch Bracket

2. Lock the lever by pressing it to fix the bracket as figure shows, and loosen the bracket clamp screws with an Allen wrench.

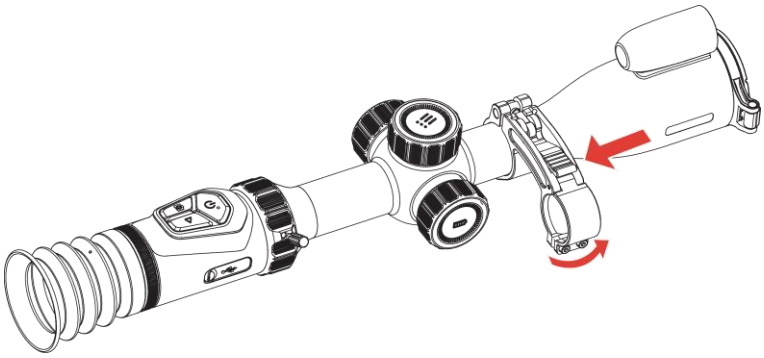


Figure 2-11 Lock the Lever

3. Open the clamp and remove the anti-slip spacer.

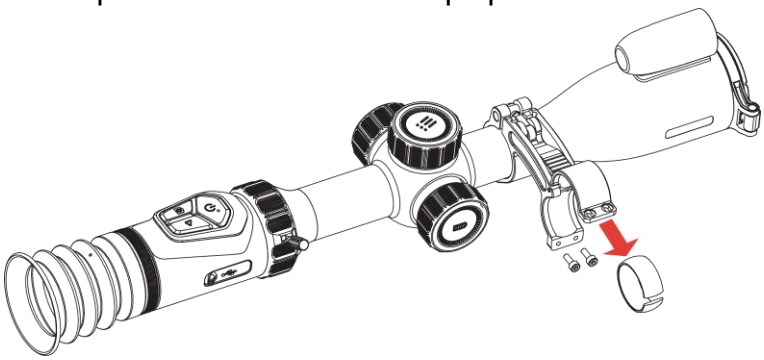


Figure 2-12 Remove the Spacer

4. Fit the anti-slip spacer of the bracket onto the IR torch.

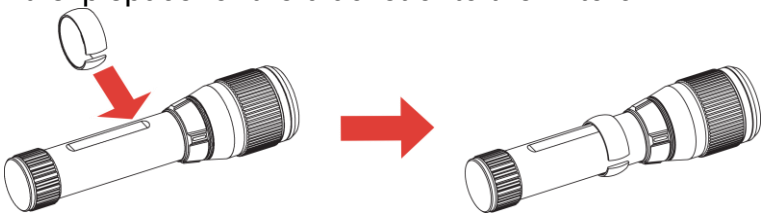


Figure 2-13 Fit the Spacer on IR Torch

5. Place the IR torch in the clamp. Make sure the spacer is aligned with the inner surface of the clamp.

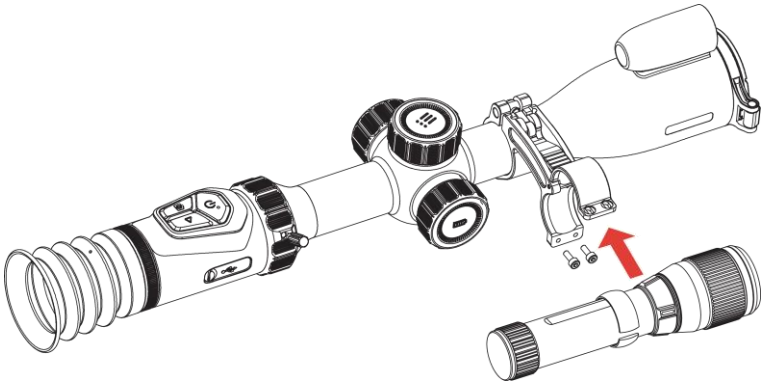


Figure 2-14 Place the IR torch in the Clamp

6. Align the top holes with lower holes of the clamp, then insert and tighten the clamp screws to fix the IR torch.

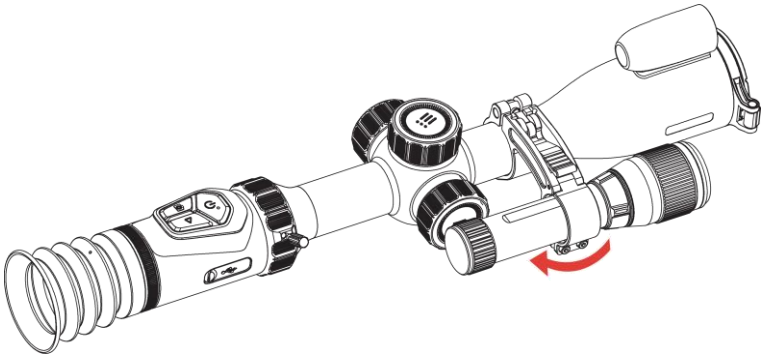


Figure 2-15 Fix the IR Torch

Note

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

2.5 Power On/Off

Power On

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

Power Off

When the device is turned on, hold to power off the device.

Note

- Power-off countdown will appear when you power off the device. You can press any key to interrupt the countdown and cancel the power-off.
- Automatic low battery power-off cannot be canceled.

Auto Power Off

You can set the auto power off time for your device.

Steps

1. Hold to show the menu.

2. Go to **Advanced Settings**.
3. Rotate the wheel to select , and press to enter the configuration interface.
4. Rotate the wheel to select the auto power off time as required.
5. Hold to save and exit.

Note

- See the battery icon for the battery status. means the battery is fully charged, / means the battery is low, means the battery charging is abnormal, and / means the battery is not installed, not detected, or out of power.
- 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.

2.6 Auto Screen Off

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

Steps

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

- Tilt the device downwards from 0° to 60° or upwards .
- Rotate the device horizontally from 0° to 40°.
- Press to wake up the device.

2.7 Menu Description

In the live view interface, hold to show the menu. The interface may vary depending on the screen style. Refer to ***Set Screen Style***.

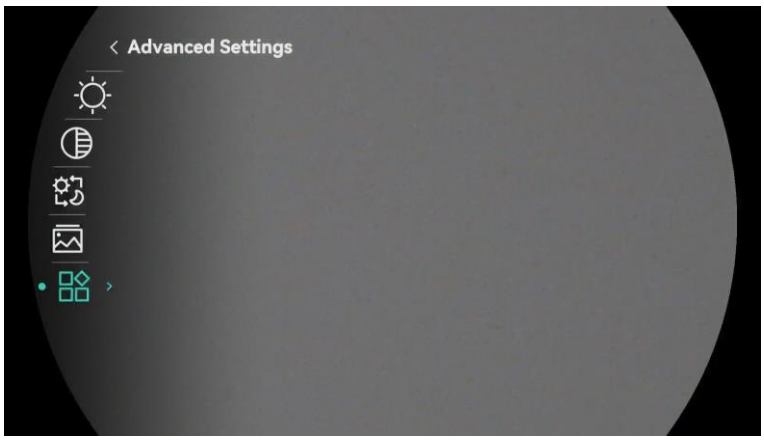


Figure 2-16 Device Menu (Round Screen Style)

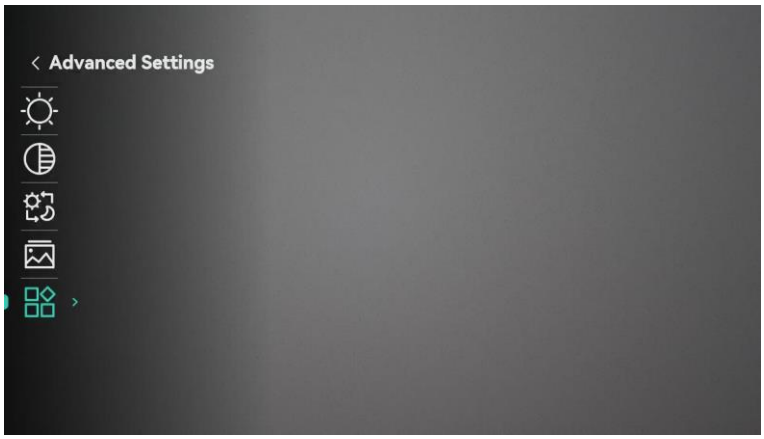


Figure 2-17 Device Menu (Square Screen Style)

2.8 App Connection

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

Before You Start

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

Steps

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

Android System iOS System

2. Hold to show the menu.
3. Go to **Advanced Settings**, and rotate the wheel to select .
4. Press to enter the setting interface.
5. Rotate the wheel to select **Hotspot_5G** or **Hotspot_2.4G**, and then the hotspot of 5 GHz or 2.4 GHz is enabled.
   - Use 2.4 GHz if your smartphone does not support 5 GHz.
   - 5 GHz is recommended for small-range scenarios within 5 m, such as mounting device on the vehicle. Otherwise, use 2.4 GHz.
6. Turn on the WLAN of your phone and connect to the hotspot.
   - Hotspot Name: HIKMICRO_Serial No.
   - Hotspot Password: Go to **Hotspot** in the menu to check the password.
7. Open the app, and confirm the connection PIN code on the device to connect your phone with the device. You can view the interface of device on your phone.

Note

- When the device is connected to your phone, you can change the hotspot password via the HIKMICRO Sight app.
- 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.
- The hotspot will be turned off if there is no connection for over 10 minutes.
- Hotspot cannot be enabled when device battery is low.

2.9 Firmware Status

2.9.1 Check Firmware Status

Steps

1. Open the HIKMICRO Sight and connect your device to the app.
2. Check if there is an upgrade prompt on the device management interface. If there is no upgrade prompt, the firmware is the latest version. Otherwise, the firmware is not the latest version.

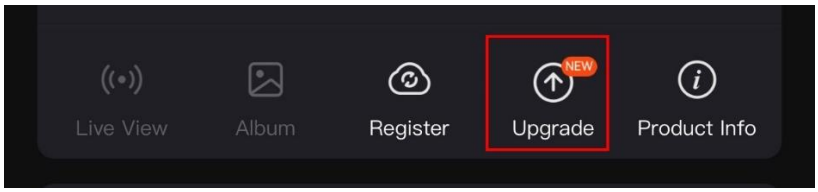


Figure 2-18 Check Firmware Status

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

2.9.2 Upgrade Device

Upgrade Device via HIKMICRO Sight

Steps

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

Note

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

Upgrade Device via PC

Before You Start

Please get the upgrade package first.

Steps

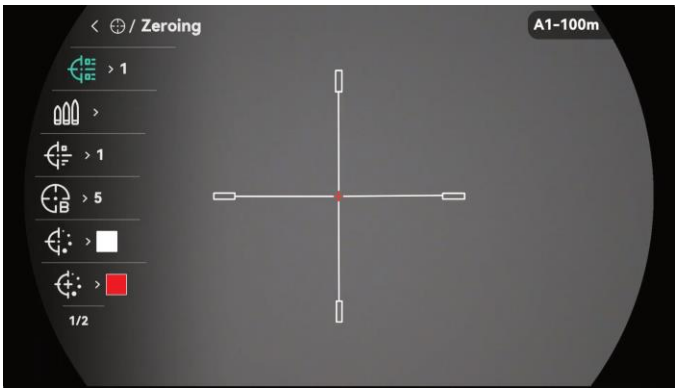
1. Hold to show the menu.
2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Press to enter the configuration interface.
4. Rotate the wheel to select **USB Flash Drive**.
5. Connect the device to your PC with cable.
6. Open the detected disk, copy the upgrade file and paste it to the 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.

2.10 Zeroing (Overview)

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



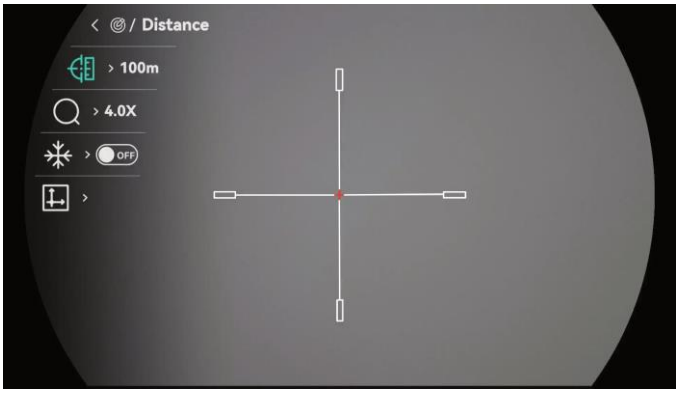


Figure 2-19 Zeroing

3 Image Settings

3.1 Adjust Diopter

Steps

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

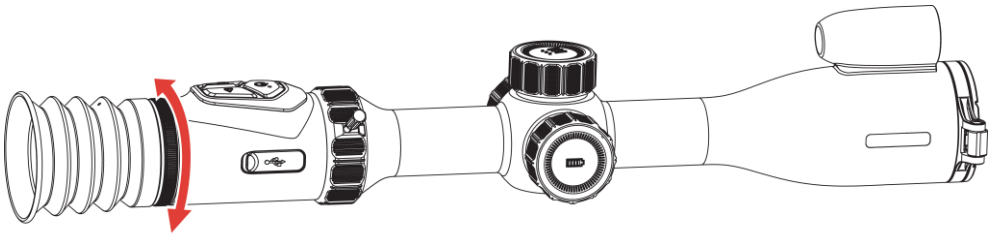


Figure 3-1 Adjust Diopter

Note

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

3.2 Adjust Focus

Steps

1. Power on the device.
2. Hold the device and make sure the eyepiece covers your eye.
3. Adjust the focus wheel until the image is clear.

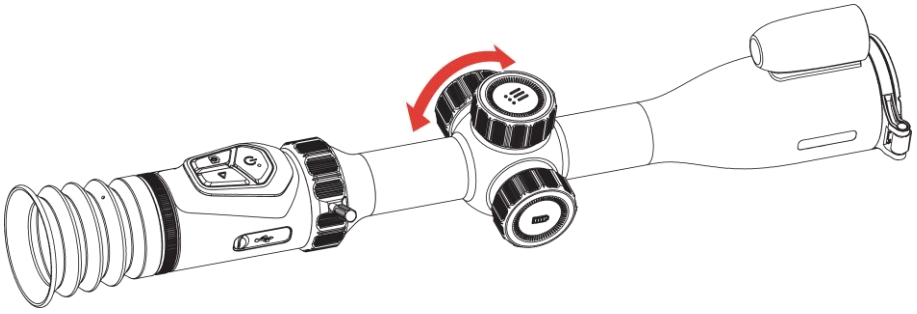


Figure 3-2 Adjust Focus

Note

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

3.3 Adjust Brightness

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

Steps

1. Hold to show the menu.
2. Rotate the wheel to select and press to confirm.
3. Rotate the wheel to switch brightness adjustment mode. **Auto** and **Manual** are selectable.
   - **Auto**: Adjust the brightness automatically according to ambient brightness.
   - **Manual**: Adjust the brightness manually. Press and rotate the wheel to adjust brightness.
4. Hold to save settings and exit.

3.4 Adjust Contrast

Steps

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

3.5 Switch Display Mode

You can select different display modes in different scenes. Day, night, green, yellow and auto modes are selectable. For non-LRF model, in addition to switching display modes in the menu, you can also press in the live view interface to switch modes.

Steps

1. Hold to show the menu.
2. Rotate the wheel to select and press to confirm.
3. Rotate the wheel to switch display modes.
   - : Day mode. You can use this mode at daytime and in bright environment.

Figure 3-3 Day Mode

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

Figure 3-4 Night Mode

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

Figure 3-5 Green Mode

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

Figure 3-6 Yellow Mode

- : Auto mode. The display modes switch automatically according to the ambient brightness.

4. Hold to save settings and exit.

3.6 WDR

WDR (Wide Dynamic Range) enhances the viewing experience by providing better image quality in diverse lighting conditions. When you enable this function, it prevents bright areas from appearing too bright and increases details in shadows.

Steps

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

3. Press to enable the function.
4. Hold to save settings and exit.

Result

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

3.7 Set Smart IR

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

Steps

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

3.8 Set Picture in Picture Mode

In the live view interface, hold to turn on/off PIP. When the PIP is enabled, the PIP view center follows the priority below: ballistic calculation recommended aiming point > reticle center > laser rangefinding reticle > live view center.

- When ballistic calculation is enabled, the PIP view centers on the recommended aiming point.
- When ballistic calculation is disabled and reticle is enabled, the PIP view centers on the reticle center.
- When reticle and ballistic calculation are disabled and laser ranging is enabled, the PIP view centers on the laser rangefinding reticle.
- When reticle, ballistic calculation, and laser ranging are all disabled, the PIP view shows the center of the live view in detail.

Figure 3-7 PIP View

Note

- If the PIP function is enabled, only the PIP view zooms when adjusting the digital zoom ratio.
- The PIP view temporarily displays the zoom ratio when adjusting the digital zoom of the device.
- Ballistic calculation and laser ranging are available only on LRF model.

3.9 Adjust Digital Zoom

In the live view interface, rotate the digital zoom ring to adjust the digital zoom ratio.

Steps

Note

- When switching the digital zoom ratio, the left interface displays the actual magnification.
- The zoom ratio may vary according to different models. Please take the actual product for reference.
- Rotate the digital zoom lever up to 120°. Do not force it beyond the position limit, as this may cause device damage.

3.10 Set Pitch Scale

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

Steps

1. Hold to show the menu.

2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Press to turn on the pitch scale.
4. Hold to save settings and exit.

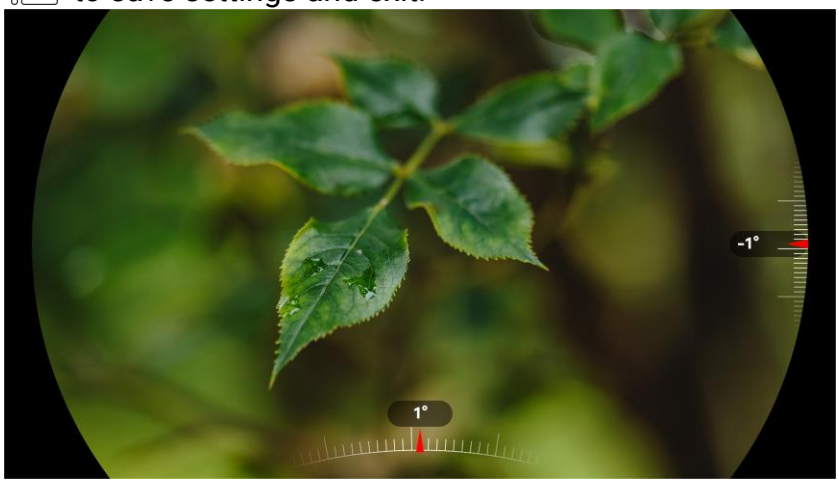


Figure 3-8 Pitch Scale

4 Zeroing

4.1 Set Reticle Mode

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

Steps

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

Note

The beginning zoom ratio in central reticle mode is about 2× of that in fixed reticle mode.

4.2 Select Zeroing Profile

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

Steps

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

Note

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

4.3 Set Reticle

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

Before You Start

Select a zeroing profile first.

Steps

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

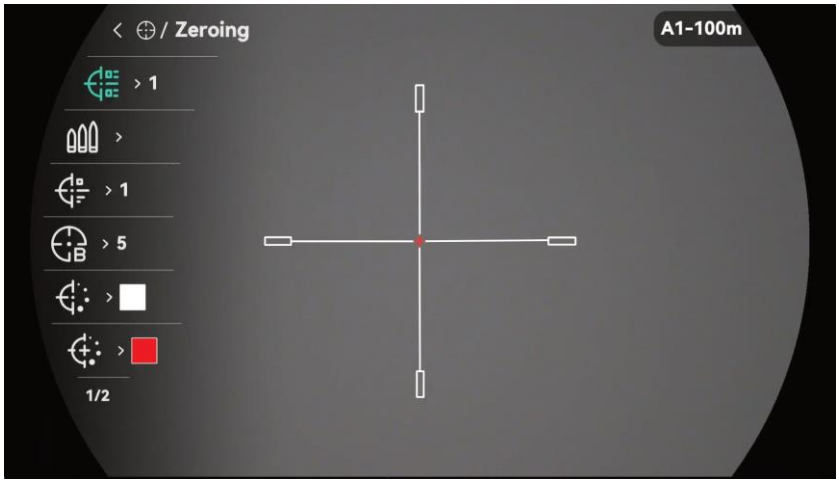


Figure 4-1 Using a Reticle

Note

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

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

Note

- 5 reticles can be configured in a zeroing profile.
- If the PIP function is enabled, the aimed target can be magnified on the interface.
- If the live view is white or black, and the reticle color is set to the same color, the color of the reticle will be inverted automatically to better aim at the target.

4.4 Correct Reticle

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

4.4.1 Correct Reticle on Device

Before You Start

Select a zeroing profile first.

Steps

1. Hold to show the menu.

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

   Press to enter the setting interface.

3. Select **Zeroing**, and press to confirm. Rotate the wheel to select a reticle you want to correct.

4. Select **Correction**, and press to enter the setting interface.

5. Set the distance to the target.

   1) Rotate the wheel to select **Distance**.

   2) Press to switch the digit you want to change.

   3) Rotate the wheel to change the number, and hold to finish the setting.

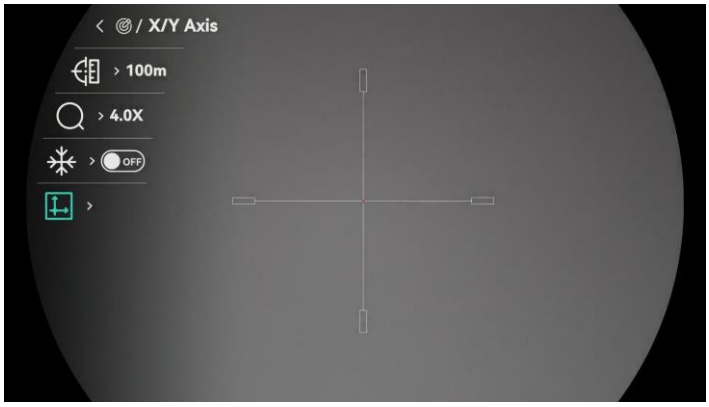
6. Select **Zoom**, and press to confirm. Rotate the wheel to set the digital zoom ratio.

7. Aim at the target and pull the trigger. Align the reticle with the point of impact.

   1) Aim the big reticle at the target.

   2) Select **Freeze**. Press to enable the function.

   3) Select and rotate the wheel to set the coordinates until the big reticle aligns with the point of impact. Press to select axis. If you select **X**, the reticle moves left and right; if you select **Y**, the reticle moves up and down. Hold to finish setting.



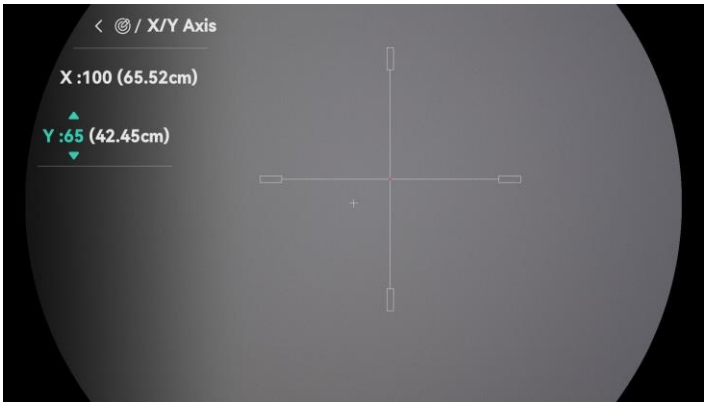


Figure 4-2 Enable Freeze

Note

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

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

4.4.2 Correct Reticle via HIKMICRO Sight

You can also correct the reticle by HIKMICRO Sight app.

Before You Start

Install HIKMICRO Sight on your phone.

Steps

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

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

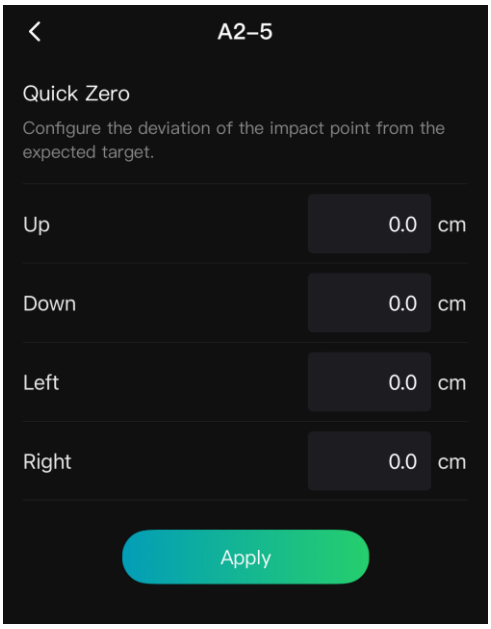


Figure 4-3 Quick Zero

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

Result

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

Note

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

4.5 Ballistic Calculation for Hunting (LRF Model)

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

Note

This function is only available on LRF model.

Before You Start

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and rotate the wheel to select . Press to enter the setting interface.
3. Rotate the wheel to select **Ballistic Calculation**. Press to enter the setting interface.
4. Press to enable this function.
5. Select **Aim Point Style**. Press and rotate the wheel to set the aim point style.
6. Select **Aim Point Color**. Press and rotate the wheel to set the aim point color.
7. Select and press to enter the parameter configuration interface. Rotate the wheel 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: Set this to your normal wind direction.

- Wind Speed: Set this to your normal wind speed.

8. Press to switch digit, and rotate the wheel to change the number.
9. Hold to save and exit.
10. Press to turn on laser ranging, aim at the target, and press again to measure the target distance. The screen will display the recommended aiming point, drop distance, and wind drift in the interface.

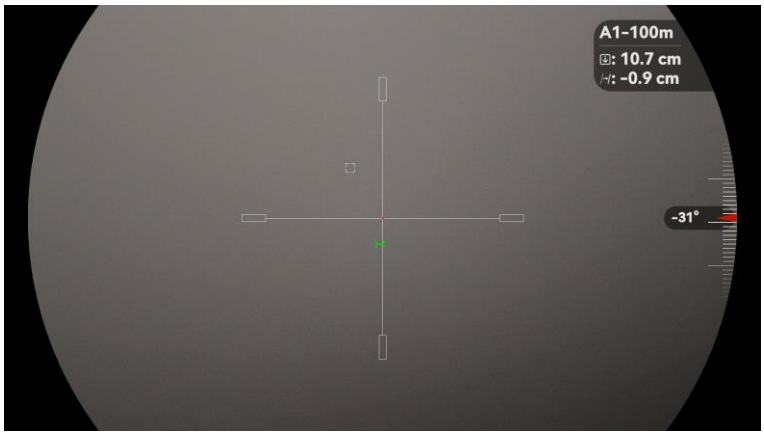


Figure 4-4 Ballistic Calculation Results

11. (Optional) To adjust the distance, repeat the above step.

Note

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

5 Measure Distance (LRF Model)

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

Note

This function is only available on LRF model.

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**, rotate the wheel to select .
3. Press to go to the measurement interface. 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 second.
4. (Optional) Select and press the wheel to enable/disable the THD display. When enabled, the THD (True Horizontal Distance) to the target will be displayed when performing laser ranging.
5. Set **Rangefinding Reticle Style** or **Rangefinding Reticle Color** according to your necessity. Press to enter the configuration interface and rotate the wheel to select the rangefinding reticle style or rangefinding reticle color.
6. Hold return to the live view interface.
7. Press to turn on laser ranging, aim at the target, and press again to measure the target distance.

Note

- Double-press 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 live view interface.

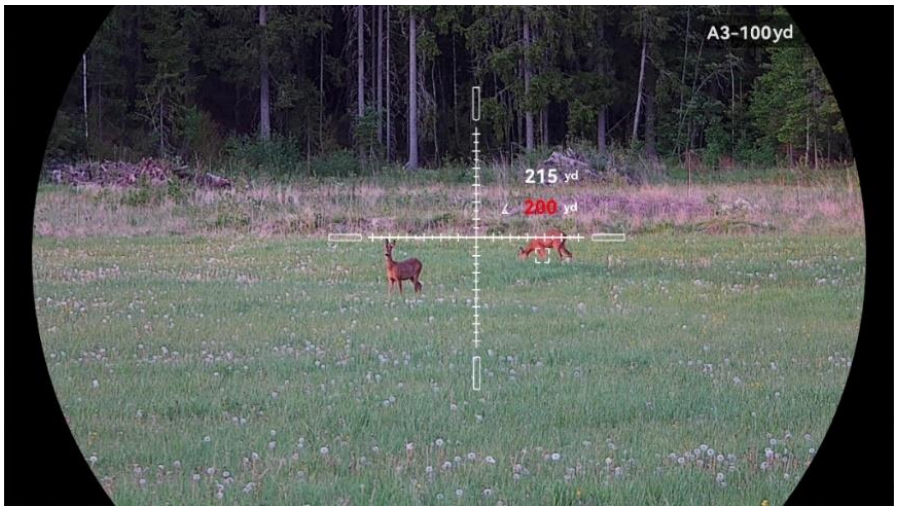


Figure 5-1 Distance Measurement Result

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

Caution

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

6 General Settings

6.1 Set OSD

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

Steps

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

Note

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

6.2 Set Screen Style

You can select screen style according to your preference.

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Press to confirm. Rotate the wheel to select screen style modes. **Round** and **square** are selectable.
4. Hold to save according to the prompt.

6.3 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 rotate the wheel to select .
3. Press to enable **Brand Logo**.
4. Hold to save the settings and exit.

Result

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

6.4 Capture and Video

6.4.1 Capture Picture

In the live view interface, press to capture picture.

Note

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

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

6.4.3 Record Video

Steps

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

Figure 6-1 Start Recording

The left image displays the information of recording time.

2. Hold again to stop recording.

6.4.4 Prerecord Video

After you enable this function and select the prerecording time, the device can automatically record for 5, 10 or 15 seconds before and after the recoil-activation, respectively.

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Press to enter the setting interface. Rotate the wheel to switch the prerecording time. 5+5s, 10+10s, and 15+15s are selectable. You can also select **OFF** to turn off the function.
4. Hold to save settings and exit.

6.4.5 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. Rotate the wheel to select . Press to enter the album.

Note

The albums are automatically created and named by year + month. The local pictures and videos of a certain month are stored in the corresponding album. For example, the pictures and videos of January in 2026 are saved in the album named 202601.

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

Note

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

6.5 Export Files

6.5.1 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.

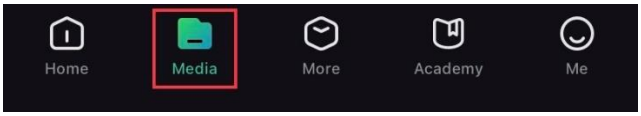


Figure 6-2 Access Device Albums

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

Note

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

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

Figure 6-3 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.

6.5.2 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 rotate the wheel to select .
3. Press to enter the configuration interface.
4. Rotate the wheel to select **USB Flash Drive**.

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

Note

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

6. Open computer disk and select the disk of device. Go to the DCIM folder and find the folder named after the capture year and month. For example, if you capture a picture or record a video on January 2026, go to **DCIM** -> **202601** to find the picture or video.
7. Select and copy the files to PC.
8. Disconnect the device from your PC.

Note

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

7 System Settings

7.1 Adjust Date

Steps

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

7.2 Synchronize Time

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Rotate the wheel to select , and press 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 , and then rotate the wheel to select **AM** or **PM.**
5. Press to select the hour or minute, and rotate the wheel to change the number.
6. Hold to save settings and exit.

7.3 Set Language

You can select the device language in this function.

Steps

1. Hold to show the menu.

2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Press to enter the configuration interface.
4. Rotate the wheel to select the language as required, and press to confirm.
5. Hold to save settings and exit.

7.4 Set Unit

You can switch the unit for distance measurement.

Steps

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

7.5 Cast Device Screen to PC

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and rotate the wheel to select .
3. Press to enter the configuration interface.
4. Rotate the wheel to select **Digital**.
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.

7.6 Set Screen Lock Passcode

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

7.6.1 Enable Passcode

Steps

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

7.6.2 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**, rotate the wheel to select , and press to confirm.
3. Rotate the wheel to select , and press to enter the configuration interface.
4. Press to switch digit, and rotate the wheel to change the number.

5. Hold to save settings and exit.

7.7 View Device Information

Steps

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

7.8 Restore Device

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

Steps

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

7.9 Reset Device

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

Steps

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

8 Frequently Asked Questions

8.1 Why is the monitor off?

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

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

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

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

Check the following items.

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

8.4 Why the PC cannot identify the device?

Check the following items.

- Whether the 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.

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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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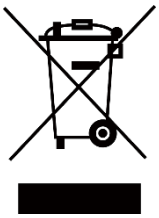
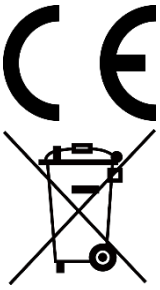
This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/30/EU (EMCD), Directive 2014/35/EU (LVD), Directive 2011/65/EU (RoHS), Directive 2014/53/EU.
Hereby, Hangzhou Microimage 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
5 GHz (5.15 GHz to 5.25 GHz): 23 dBm
For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.
For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.



Directive 2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



Regulation (EU) 2023/1542 (Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

INFORMATIONEN FÜR PRIVATE HAUSHALTE

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 Elektro- und 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
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. 4.2 Watts required by the radio equipment, and max. 10 Watts in order to achieve the maximum charging speed.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid over-heating or fire hazards caused by overload.

Battery

- The external rechargeable battery type is 18650, and the battery size should be 19 mm × 70 mm. The rated voltage is 3.635 V, and the battery capacity is 3300 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 3 months to ensure the battery quality. Otherwise, damage may occur.
- 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.

- 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).
- Make sure the built-in battery temperature is between 0 °C to 52 °C (32 °F to 125.6 °F) when charging.
- Make sure the external battery temperature is between 0 °C to 55 °C (32 °F to 131 °F) when charging.
- 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.
- 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.
- DO NOT place the battery in the reach of children.
- DO NOT swallow the battery to avoid chemical burns.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- CAUTION: Risks of short circuit, fire, or explosion if the battery is damaged. Frequent use, dropping, impact, corrosion, or compression of the battery may cause damages including cracked casing, detached plates, or leakage of internal liquid or gas, etc.
- If the battery is damaged, stop using it immediately and dispose of it according to the instructions.

Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Make sure that the power has been disconnected before device teardown and repair by professionals.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Check the optical surfaces of objective lens, eyepiece, rangefinder, etc.

If necessary, remove dust and sand from the optics using tools and solvent designed especially for this purpose (it is preferable to use a non-contact method).

- Wipe the exterior surfaces of metal, plastic, and silicone parts with a clean and soft cloth. Do not use chemically active substances, solvents, etc. as these may damage the paint.
- Clean the electrical contacts of the battery on the device using a non-greasy organic solvent.

Using Environment

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

Emergency

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

Laser

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

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