HIKMICRO

User Manual

Thermal Monocular

FALCON 2.0 SERIES

V5.5.116 202501

Contact Us

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1 Overview

1.1 Device Description

HIKMICRO FALCON 2.0 series is a powerful and innovative thermal monocular equipped with a high-end infrared detector. With less than 15 mK NETD and shutterless image system, it ensures a seamless observing experience of ultra-clear image quality and detail recognition without being disturbed by the shutter. The device can be mainly applied in forest & field hunting, birding, animal searching, adventuring, and rescuing scenario regardless of light and weather conditions.

1.2 Main Function

- **HSIS (HIKMICRO Shutterless Image System)**: It is a dynamic learning process without image quality loss. This eliminates the need for periodic calibration pauses, ensuring you never miss a critical moment in the field.
- **Laser Ranging (for LRF Model):** Built-in laser range finder provides an accurate distance between the target and the observation position.
- **Zoom Pro**: An advanced zoomed image processing algorithm, ensures maximum image optimization under digital zoom.
- **Local Album**: Local album stores captured images and recoil-activated videos, which help you clarify whether you get the game immediately.
- **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

Note

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

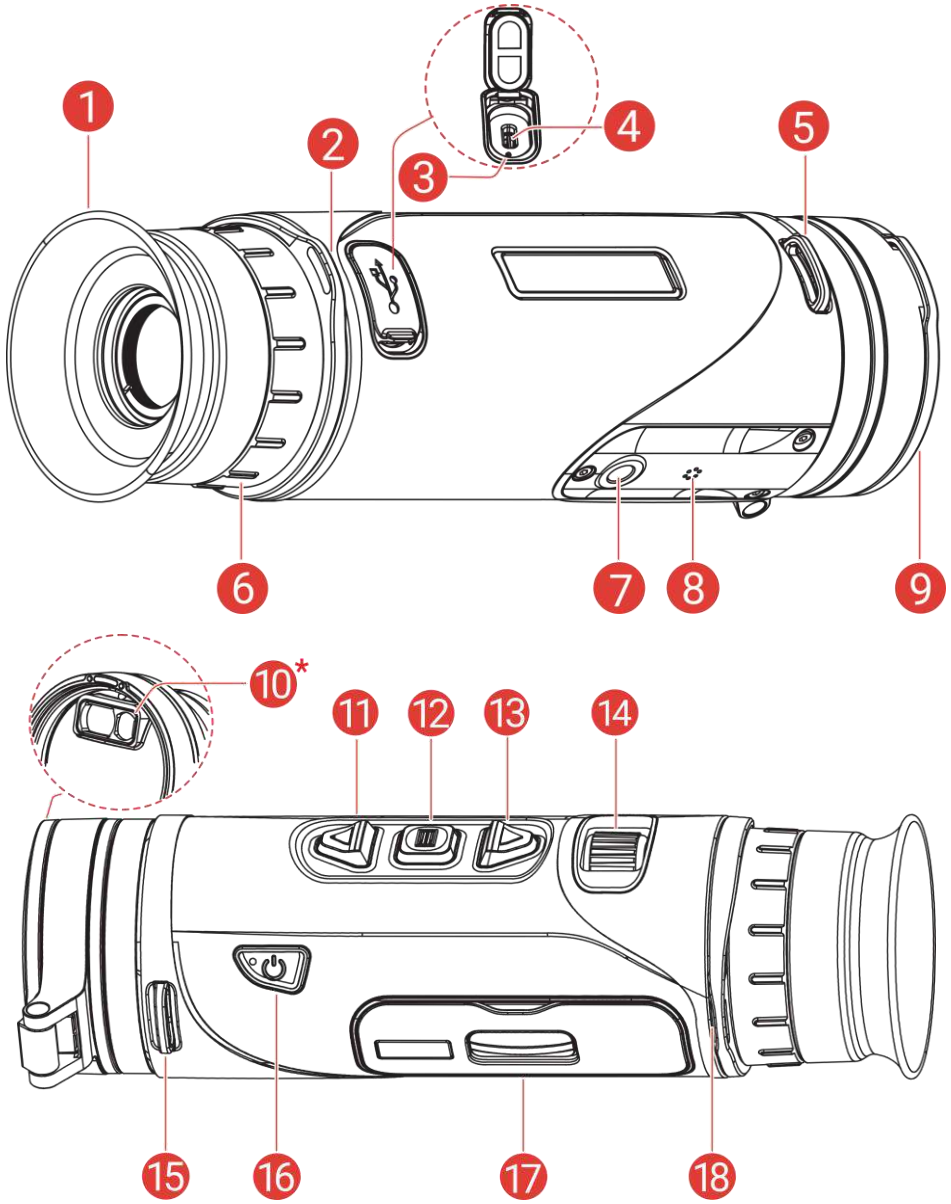


Figure 1-1 Appearance

Table 1-1 Component Descriptions

No.	Component	Description
1	Eyepiece	The piece placed closest to the eye to view the target.
2, 5, 15, 18	Strap Attachment Point	Attaches the neck strap or hand strap.
3	Charging Status Indicator	● Flashing Red & Green: Error occurred. ● Solid Red: Charging. ● Solid Green: Fully charged.
4	Type-C Interface	To connect the device to power supply or transmit data with a type-C cable.

No.	Component	Description
6	Diopter Adjustment Ring	Adjusts the dioptric setting.
7	Tripod Mount	Mounts the tripod.
8	Microphone	To record audio.
9	Thermal Lens	For thermal imaging. The magnetic lens cover can protect lens from scratch.
10	Laser Range Finder *(LRF Model)*	LRF module in the lens. Measures the distance to the target with laser.
11	△ Up Key	**For Non-LRF Model* Non-Menu Mode: ● Press: Capture snapshots. ● Hold: Start/Stop recording videos. Menu Mode: Move up.
		**For LRF Model* Non-Menu Mode: ● Press: Turn on laser ranging. ● Double-Press: Turn off laser ranging. ● Hold: Start/Stop recording videos. Menu Mode: Move up.
12	Mode Key	Non-Menu Mode: ● Press: Switch palettes. ● Hold: Enter the menu. Menu Mode: ● Press: Confirm/Set parameters. ● Hold: Save and exit menu.
13	▽ Down Key	Non-Menu Mode: ● Press: Switch digital zoom. ● Hold: Correct non-uniformity of display (FFC). Menu Mode: Move down.
14	Focus Knob	Adjusts focus to obtain clear targets.
16	Power Key	● Press: Standby mode/Wake up device. ● Hold: Power on/off.
17	Battery Compartment	For holding the battery.
11+ 12	Up Key + Mode Key	**For LRF Model* Press to capture snapshots.

Note

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

2 Preparation

2.1 Install Battery

2.1.1 Battery Instruction

- The device supports removable Li-ion 21700 battery, and the battery size should be 22.3 mm × 76 mm. The battery rated voltage and capacity is 3.59 V/5500 mAh.
- Charge the battery with the battery charger for more than 4 hours before first use.
- Remove the battery if the device is not used for a long time.

2.1.2 Battery Installation

Steps

1. Slide to unlock and open the battery compartment cover.

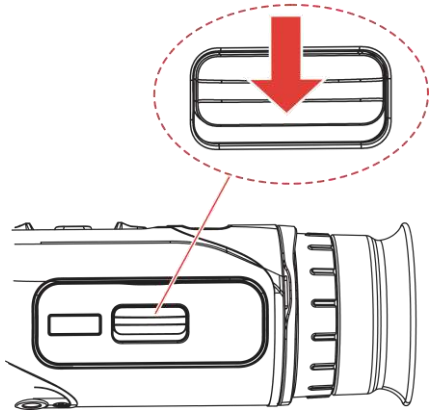


Figure 2-1 Open the Battery Compartment Cover

2. Insert the battery into the battery compartment as the positive and negative marks indicate.

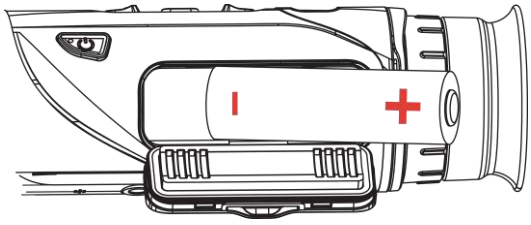


Figure 2-2 Insert the Battery

3. Close the battery compartment cover and slide to lock it.

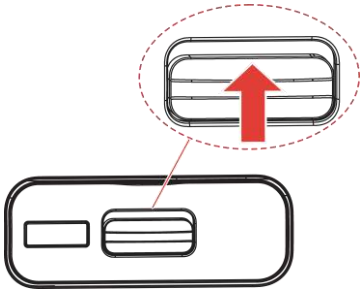


Figure 2-3 Close the Cover

2.2 Cable Connection

Before You Start

Make sure the battery is installed in the battery compartment of the device before charging the device with a type-C cable.

Steps

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

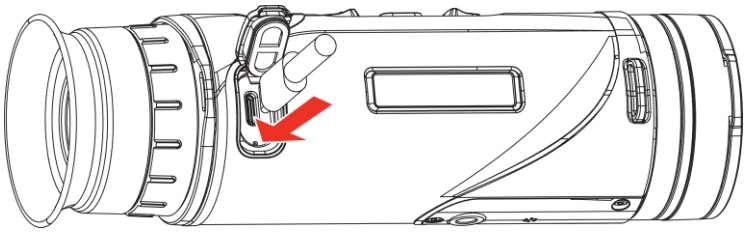


Figure 2-4 USB Connection

Figure 2-5

Note

- The charging temperature should be from 0 °C to 50 °C (32 °F to 122 °F).
- You can use battery charger to charge the battery.
- If the battery is not used for a long time, please charge it with the battery charger before use. In this situation, type-C charging for the device is not supported.

2.3 Attach Neck Strap

Steps

1. Thread one end of the neck strap through a neck strap attachment point.

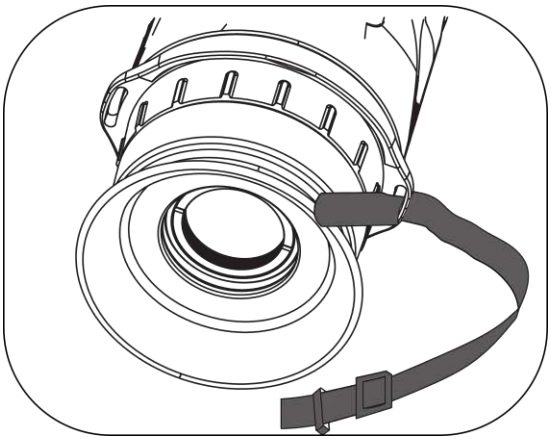


Figure 2-6 Thread Neck Strap through Attachment Point

2. Thread the neck strap through the strap buckle and fasten the neck strap, as is shown in the picture.

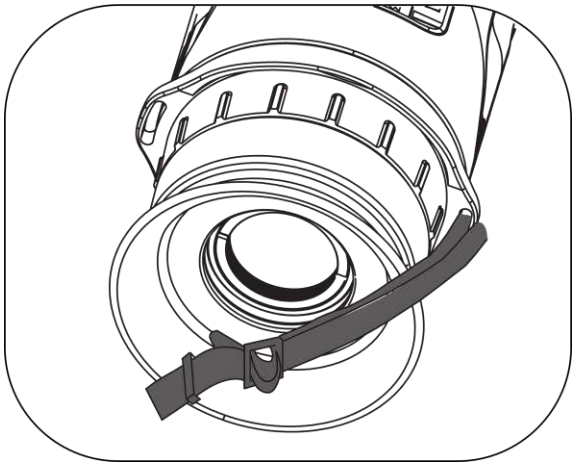


Figure 2-7 Thread Neck Strap through Strap Buckle

3. Thread the neck strap through the strap keeper.

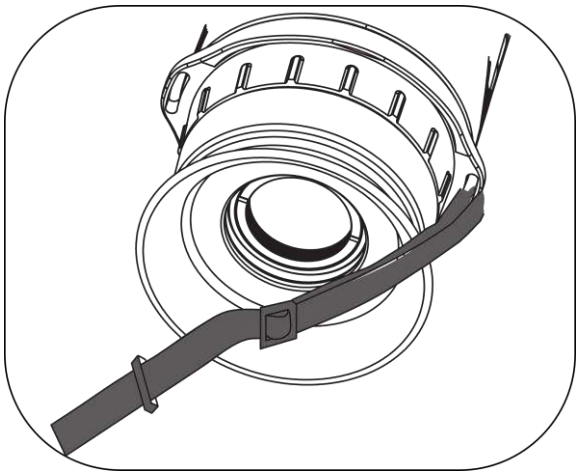


Figure 2-8 Thread Neck Strap through Strap Keeper

4. Repeat above steps to finish mounting, and adjust the length of neck strap as needed.

2.4 Attach Hand Strap

Steps

1. Thread one end of the hand strap through a strap attachment point.
2. Thread the hand strap through the strap buckle and fasten the strap to secure it, as shown in the picture.
3. Repeat the above steps to finish mounting, and adjust the length of hand strap as needed.

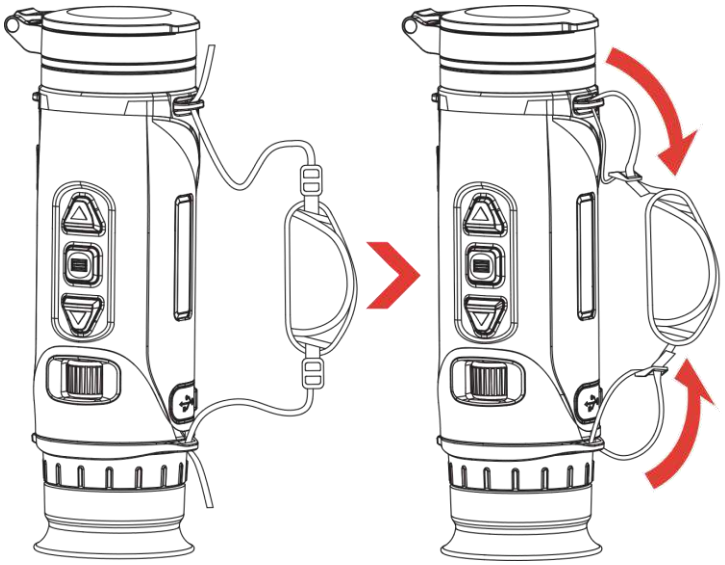


Figure 2-9 Attach Hand Strap

2.5 Use Carrying Bag

The carrying bag comes a safety strap and MOLLE system for comfortable carrying and ensures the device safety. You can adjust the length of the strap according to your preference. The bag can be carried with flexible options:

- The carrying bag is equipped with 4 attachment rings, so you can attach the safety strap to the bag as a sling bag or neck pouch.

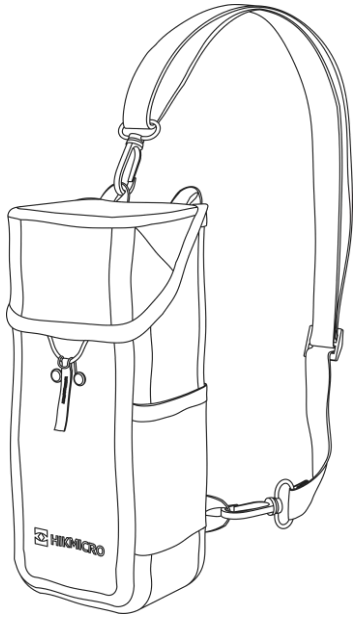


Figure 2-10 Attach the Safety Strap to the Bag

- The carrying bag can be attached to other MOLLE-compatible backpack using the MOLLE straps for extra carrying capacity and easy access.
- The carrying bag can be attached to a tactical belt or a regular one as a waist pack.

2.6 Power On/Off

Power On

When the battery is sufficiently charged, 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**, and press or to select .
3. Press or to select the auto power off time as needed, and press to confirm.
4. Hold to save the settings and exit.

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.
- The auto power off takes effect only when the device isn't in operation or connected with HIKMICRO Sight app.
- The auto power off countdown will start again when the device exits standby mode, or the device is restarted.

2.7 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 from 70° to 90°.
   - Rotate the device horizontally from 75° to 90°.
   - Keep the device still and do not move it for 5 minutes.
3. You can wake up the device by one of the following operations when the display is turned off:
   - Tilt the device downwards from 0° to 60° or upwards from 0° to 90°.
   - Rotate the device horizontally from 0° to 75°.
   - Press to wake up the device.

Note

After enabling the auto screen off, when you enter the menu, the auto screen off does not take effect until you exit the menu.

2.8 Menu Description

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

Figure 2-11 Device Menu (Round Screen Style)

Figure 2-12 Device Menu (Square Screen Style)

2.9 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.

Steps

1. Search the 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. Go to **Advanced Settings**, and press or to select .
4. Press to enter the setting interface.
5. Press or 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 connect your phone with the device. You can view the interface of device on your phone.

Note

The device cannot connect to the app if entering wrong password several times. Refer to ***Reset Device*** to reset the device, and connect the app again.

2.10 Firmware Status

2.10.1 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.

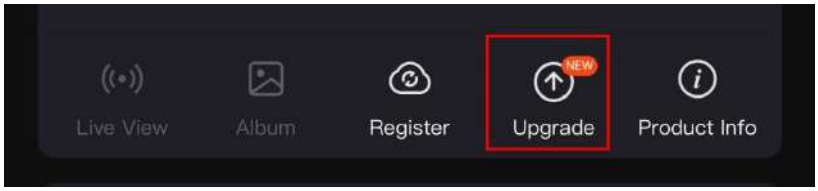


Figure 2-13 Check Firmware Status

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

2.10.2 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.

3 Image Settings

3.1 Adjust Diopter

Make sure the eyepiece covers your eye and aim at the target. Adjust the diopter adjustment ring until the OSD text or image is clear.

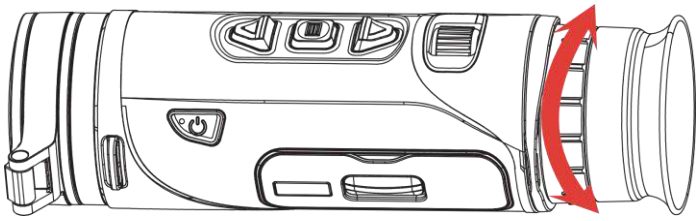


Figure 3-1 Adjust Diopter

Note

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

3.2 Adjust Focus

Slightly rotate the focus knob to adjust the focus of the objective lens until the image is clear.

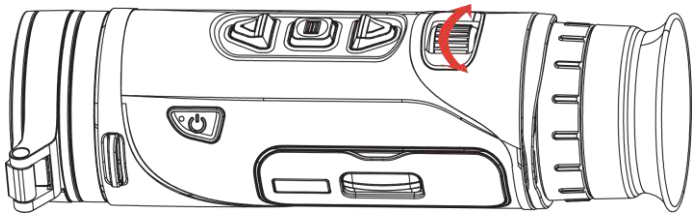


Figure 3-2 Adjust Focus

Note

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

3.3 Adjust Brightness

You can adjust the 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.

3.4 Adjust Contrast

Steps

1. Hold ☰ to show the menu.
2. Press △ or ▽ to select ◐ and press ☰ to confirm.
3. Press △ or ▽ to adjust contrast.
4. Hold ☰ to save and exit.

3.5 Adjust Tone

Steps

1. Hold ☰ to show the menu.
2. Press △ or ▽ to 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 3-3 Adjust Tone

3.6 Adjust Sharpness

Steps

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

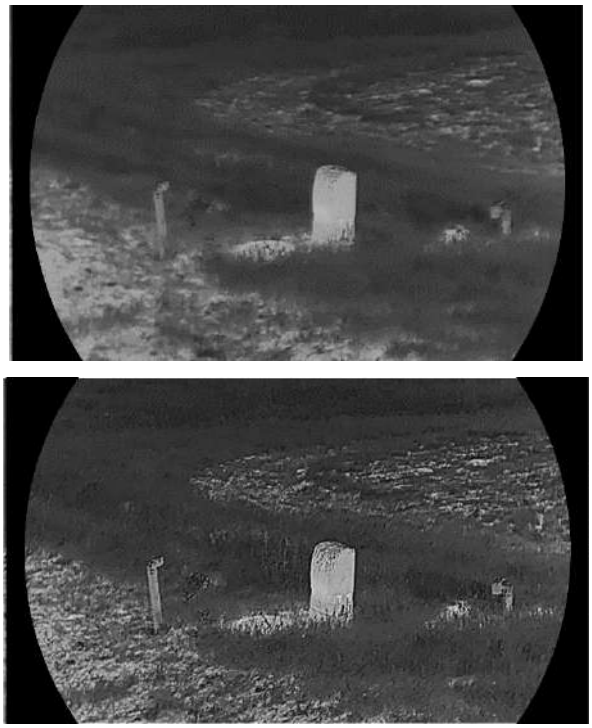


Figure 3-4 Sharpness Comparison

3.7 Select Scene Mode

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

Steps

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

3. Press △ or ▽ to select scene modes, and press ☰ to confirm.
   - **Observation**: Observation mode is recommended in normal scene.
   - **Detection**: Detection mode is recommended in hunting environment.
4. Hold ☰ to save settings and exit.

3.8 Set Palettes

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

3.8.1 Custom Enabled Palettes

Steps

1. Hold ☰ 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.

3.8.2 Switch Palettes

Press ☰ in the live view interface to switch the selected palettes.

White Hot

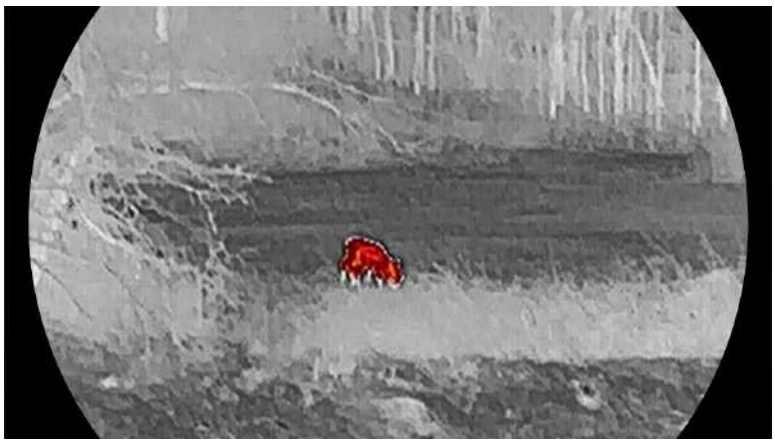
The hot part is light-colored in view. The higher the temperature is, the lighter the color is.

Black Hot

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

Red Hot

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



Fusion

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

Red Monochrome

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

Green Monochrome

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

3.9 Adjust Digital Zoom

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

Note

- When switching the digital zoom ratio, the left interface displays the actual magnification (Actual Magnification = Lens Optical Magnification × Digital Zoom Ratio). For example, the lens optical magnification is 2.8× and the digital zoom ratio is 2×, and the actual magnification is 5.6×.
- The zoom ratio may vary according to different models. Please take the actual product for reference.

3.10 Set Picture in Picture Mode

Steps

1. Hold ☰ to show the menu.
2. Go to **Advanced Settings**, and press △ or ▽ to select ▣.
3. Press ☰ to enable this function.

Result

When PIP is turned on, the image center is displayed in upper middle of the interface.

Figure 3-5 Set PIP Mode

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.

3.11 Zoom Pro

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

Steps

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

Result

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

Note

If the PIP function is enabled, Zoom Pro is only enabled in the PIP view.

3.12 Flat Field Correction

This function can correct non-uniformity of display. Hold in the live view to correct non-uniformity of display.

3.13 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**, and 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 defective pixel. If you select X, the cursor moves left and right; if you select Y, the cursor moves up and down.
5. Press twice 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.

4 Measure Distance (LRF Model)

The device with an LRF module in the lens 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 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) Horizontal distance can also be displayed on the live view interface when performing laser ranging. Select and press to enable the horizontal distance.
5. Hold to save the settings and return to the live view interface.
6. Press in the live view interface to turn on laser ranging, and aim the cursor at the target and press again to measure the target distance.

Note

- Double press in the live view to turn off laser ranging.
- Laser ranging cannot be enabled when device battery is low.

Result

The distance measurement result is displayed near the cursor on the image.

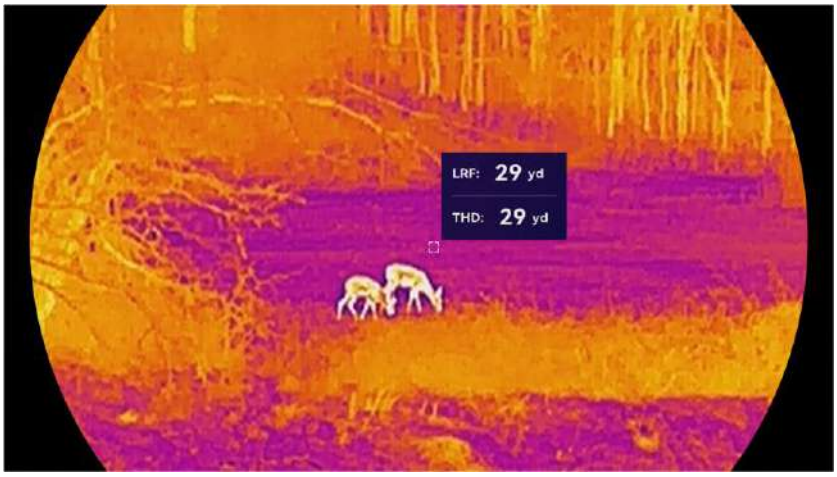


Figure 4-1 Distance Measurement Result

LRF: 29 yd means the straight-line distance, and THD: 29 yd means the horizontal distance.

Caution

The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the laser ranging function, make sure no human or inflammable substances are in front of the laser lens.

5 Measure Distance (Non-LRF Model)

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

Before You Start

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, press or to select . Press to enter the measurement interface.
3. Set the parameters for the target.
   1) Press to enter the setting interface. Press or to select the target from Deer, Grey Wolf, Brown Bear, and Custom.
   2) Press to enter target height configuration interface. Press to select digit, and press or to change the number.

      Note
      The available height ranges from 0.1 m to 9.0 m.

   3) Hold to save the setting and return to the measurement interface.
4. Align the center of top mark with the edge of target top, and press to confirm. The cursor blinks on the top edge of the target.
5. Align the center of bottom mark with the edge of target bottom and press to confirm.

Result

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

Figure 5-1 Measurement Result

6 General Settings

6.1 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 press or to select .
3. Press to enter OSD setting interface.
4. Press or 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 press or to select .
3. Press to confirm. Press or to select screen style modes. **Round** and **square** are selectable.
4. Hold to save according to the prompt. The device will be rebooted.

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 press or to 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.

6.4 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 press or to select .
3. Press to enable or disable the **Burn Prevention** function.
4. Hold to save settings and exit.

6.5 Hot Tracking

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

Steps

1. Hold to show the menu.
2. Go to **Advanced Settings**, and press or to select .
3. Press to enable the function and mark the spot of highest temperature.
4. Hold to save settings and exit.

Result

When the function is enabled, displays in the spot of highest temperature. When the scene changes, the moves.

Figure 6-1 Hot Tracking

6.6 Capture and Video

6.6.1 Capture Picture

In the live view interface, for non-LRF model, press △ to capture pictures. For LRF model, press △ and ☰ at the same time to capture pictures.

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***.

6.6.2 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.

6.6.3 Record Video

Steps

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

Figure 6-2 Record Video

2. Hold △ again to stop recording.

6.6.4 View 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. Go to **Advanced Settings**, and press △ or ▽ to select .

Note

The albums are automatically created and named by year + month. The local pictures and videos of a certain month are stored in the corresponding album. For example, the pictures and videos of October in 2024 are saved in the album named 202410.

3. Press △ or ▽ to select an album and press ☰ to enter it.
4. Press △ or ▽ 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 fails 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 files, you can press ▽ to turn to next page, and press △ to go back to previous page.
- 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.

6.7 Export Files

6.7.1 Export Files via HIKMICRO Sight

You can access device albums and export files to your phone via HIKMICRO Sight.

Before You Start

Install HIKMICRO Sight on your mobile phone.

Steps

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

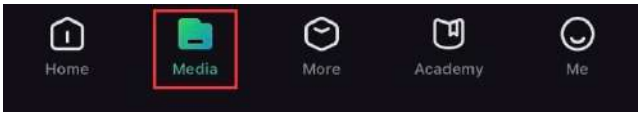


Figure 6-3 Access Device Albums

3. Tap **Local** or **Device** to view the photos and videos.
   - **Local**: You can view the 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.

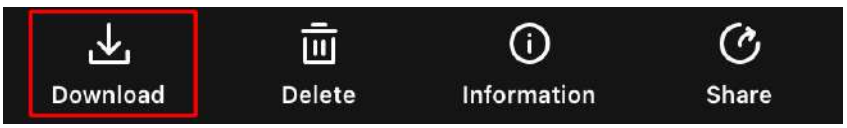


Figure 6-4 Export Files

Note

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

6.7.2 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 October 2024, go to DCIM -> 202410 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, capturing and hotspot are disabled.
- When you connect the device to PC for the first time, it installs the drive program automatically.

7 System Settings

7.1 Adjust Date

Steps

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

7.2 Adjust Time

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 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.

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 press or to 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.

7.4 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 press ▲ or ▼ to select 🔌.
3. Press ☰ to enter the configuration interface.
4. Press ▲ or ▼ 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.

7.5 Set Unit

You can switch the unit for distance display.

Steps

1. Hold ☰ to show the menu.
2. Go to ⚙ **Advanced Settings**, and press ▲ or ▼ to 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.

7.6 Save Diagnostic Log

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

Steps

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

Note

- When disabling the diagnostic log, a prompt will appear on the interface indicating the progress of diagnostic log collection. This operation cannot be interrupted. Once the log collection is finished, the prompt will disappear.
- If you need to export the logs to the professionals, open computer disk to copy and paste the log package files (*.tar.gz) stored in the log folder in the root directory of the device. See *Export Files via PC*.
- If you export the logs from the device directly without turning off the diagnostic log collection, only the .log files in the log folder can be exported.

7.7 View Device Information

Steps

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

7.8 Restore Device

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

Steps

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

7.9 Reset Device

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

Steps

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

8 Frequently Asked Questions

8.1 Why does the charge indicator flash improperly?

Check the following items.

- Check whether the device is charged with standard power adapter and the charging temperature is above 0 °C (32 °F).
- Charge the device in power off status.

8.2 Why is the power indicator off?

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

8.3 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*.

8.4 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.

8.5 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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IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

Regulatory Information

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

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/30/EU (EMCD), Directive 2014/35/EU (LVD), Directive 2011/65/EU (RoHS), Directive 2014/53/EU.

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

The full text of the EU declaration of conformity is available at the following internet address:
https://www.hikmicrotech.com/en/support/download-center/declaration-of-conformity/

Frequency Bands and Power (for CE)

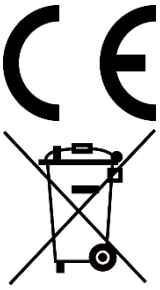
The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to the following radio equipment are as follows:
Wi-Fi 2.4 GHz (2.4 GHz to 2.4835 GHz), 20 dBm
5 GHz (5.15 GHz to 5.25 GHz): 23 dBm

5.15～5.25 GHz 屋内使用のみ。

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.

KC

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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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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.
- 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.
- The power delivered by the charger must be between min. 8.4 Watts required by the radio equipment, and max. 8 Watts in order to achieve the maximum charging speed.

Battery

- The device supports removable li-ion battery. The battery rated voltage and capacity is 3.59 V/5500 mAh.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only.
- Batteries of improper size cannot be installed, and may cause abnormal shutdown.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Please purchase the batteries recommended by the manufacturer if necessary.
- The purchased batteries by users need to comply with the relevant international standards about battery safety (e.g. EN/IEC standards).

- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.
- Dispose of used batteries according to the instructions.
- Remove the battery if you do not use the device for a long time.
- For long-term storage of the battery, make sure it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- Install the external battery before the built-in battery runs out, or the device cannot be turned on.
- Make sure the battery temperature is between 0°C to 50°C (32°F to 122°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).
- If the equipment is used in a manner not specified by the manufacturer,

the protection provided by the device may be impaired.

- 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 removable battery on the device using a non-greasy organic solvent.

Using Environment

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

Emergency

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

Laser

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

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