

User Manual

Thermal Imaging Rifle Scope

AGM AdderV2 Series

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1 Overview

AGM ADDERV2 Thermal Scope is equipped with an unparalleled powerful thermal detector, with higher sensitivity and the latest image processing algorithm, ensuring users catch the finest details no matter the weather or light conditions. With a 2560 × 2560 1.03" AMOLED larger display, the device makes it easier to spot targets quickly and accurately.

1.1 Main Function

- **Zeroing:** Zeroing is supported on the device, and the zeroed reticle helps you to aim at the target fast and accurately. See *Zeroing*.
- **Image Boost 2.0:** Featured with Image Boost 2.0 imaging algorithm, the device delivers minimal details of animals' characteristics and layered backgrounds with less noise.
- **Shutterless Technology:** Some models support shutterless technology, it is a dynamic learning process without image quality loss. This eliminates the need for periodic calibration pauses, ensuring you never miss a critical moment in the field.
- **Local Album:** Local album stores captured images and recoil-activated videos, which help you clarify whether you get the game immediately.
- **App Connection:** The device can capture snapshots, record videos, and set parameters by T-Vision app after being connected to your phone via hotspot.

1.2

Appearance



Note

- The appearance of LRF model is different from non-LRF model. Please take the actual product for reference.
- Pictures in this manual are for illustration purpose only. The actual product may be different.

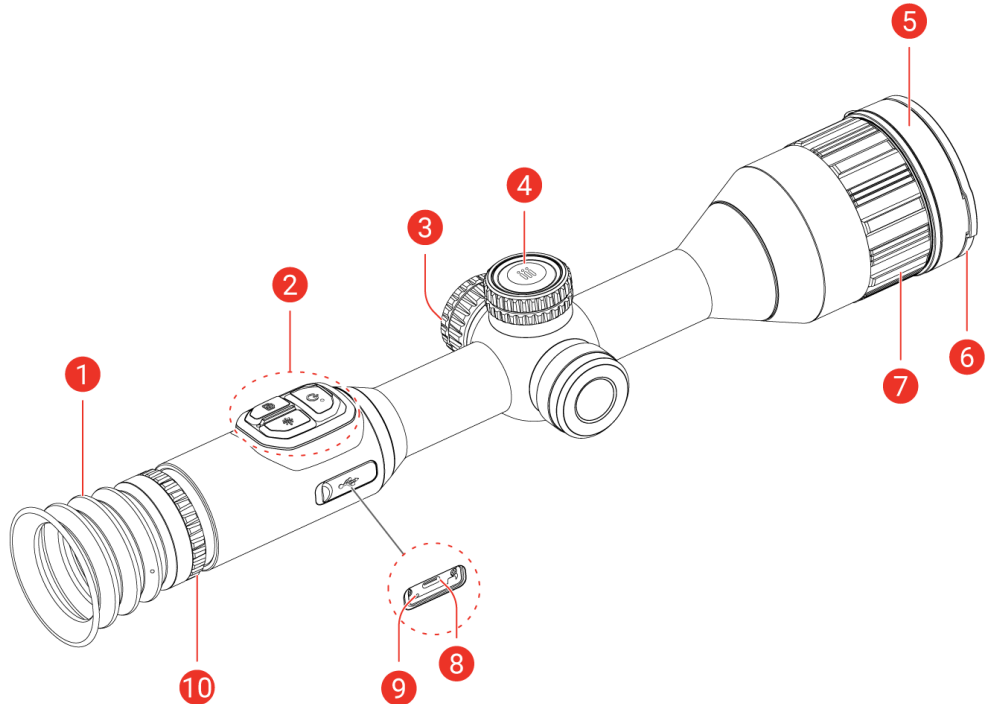


Figure 1-1 Appearance

Table 1-1 Description of Components






No.	Component	Description
1	Eyepiece	The piece placed closest to the eye to view the target.
2	Buttons	To set functions and parameters.
3	Battery Compartment	For holding the battery.
4	Wheel	To select functions and parameters and switch digital zoom.
5	Thermal Lens	For thermal imaging.
	Laser Range Finder (LRF Model)	LRF module in the lens. Measures the distance to the target with laser.
6	Lens Cover	Protects the lens.
7	Focus Ring	Adjusts focus to obtain clear targets.
8	Type-C Interface	To connect the device to power supply or transmit data with a Type-C cable.

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No.	Component	Description
9	Charging Status Indicator	Indicates the charging status of the device. <ul style="list-style-type: none"> ● Flashing Red & Green: Error occurred. ● Solid Red: Charging. ● Solid Green: Fully charged.
10	Diopter Adjustment Ring	Adjusts the dioptic setting.




Button Description (LRF Model)

Table 1-2 Button Description (LRF Model)



Icon	Button	Function
	Power	<ul style="list-style-type: none"> ● Press: Standby mode/Wake up device. ● Hold: Power on/off.
	Capture	<ul style="list-style-type: none"> ● Press: Capture snapshots. ● Hold: Start/Stop recording videos.
	Measure	<ul style="list-style-type: none"> ● Press: Turn on laser ranging. ● Double-Press: Turn off laser ranging. ● Hold: Correct non-uniformity of display (Flat Field Calibration, FFC).
	Wheel	<p>Non-Menu Mode:</p> <ul style="list-style-type: none"> ● Press: Switch palettes. ● Hold: Enter the menu. ● Rotate: Switch digital zoom. <p>Menu Mode:</p> <ul style="list-style-type: none"> ● Press: Confirm/Set parameters. ● Hold: Save and exit menu. ● Rotate: Move up/move down.
	Capture + Measure	Hold to lock/unlock the wheel.

Button Description (Non-LRF Model)

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




Icon	Button	Function
	Power	<ul style="list-style-type: none"> ● Press: Standby mode/Wake up device. ● Hold: Power on/off.
	Capture	<ul style="list-style-type: none"> ● Press: Capture snapshots. ● Hold: Start/Stop recording videos.
	Mode	<ul style="list-style-type: none"> ● Press: Switch palettes. ● Hold: Correct non-uniformity of display (Flat Field Calibration, FFC).

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	Wheel	Non-Menu Mode: <ul style="list-style-type: none">● Hold: Enter the menu.● Rotate: Switch digital zoom. Menu Mode: <ul style="list-style-type: none">● Press: Confirm/Set parameters.● Hold: Save and exit menu.● Rotate: Move up/move down.
	Capture + Mode	Hold to lock/unlock the wheel.



Note

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

2 Preparation

2.1 Cable Connection

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

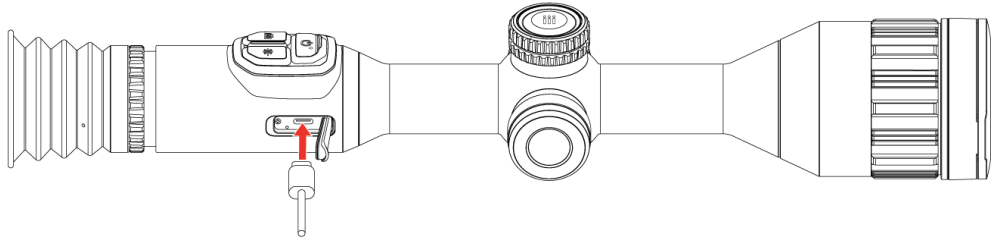


Figure 2-1 Cable Connection



Note

- Charge the device before first use.
 - Only the built-in battery will be charged via the type-C cable. Use the battery charger to charge the external battery.
-

2.2 Install Battery

2.2.1 Battery Instruction

- Remove the external battery if the device is not used for a long time.
- The external rechargeable battery type is 18650, and the battery size is 19 mm × 70 mm. The rated voltage is 3.6 V, and the battery capacity is 3200 mAh.
- The built-in battery type is rechargeable lithium-ion battery, and the battery size is 23 mm × 67 mm. The rated voltage is 3.6 V, and the battery capacity is 3350 mAh.

2.2.2 Battery Installation

Insert the batteries into the battery compartment.

Steps

1. Turn the battery cover counterclockwise to loosen it.

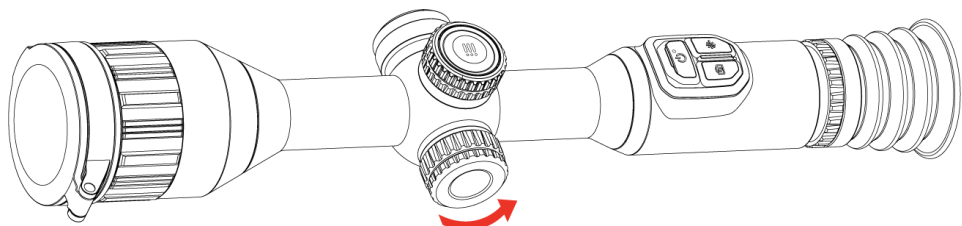


Figure 2-2 Loosen the Cover

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

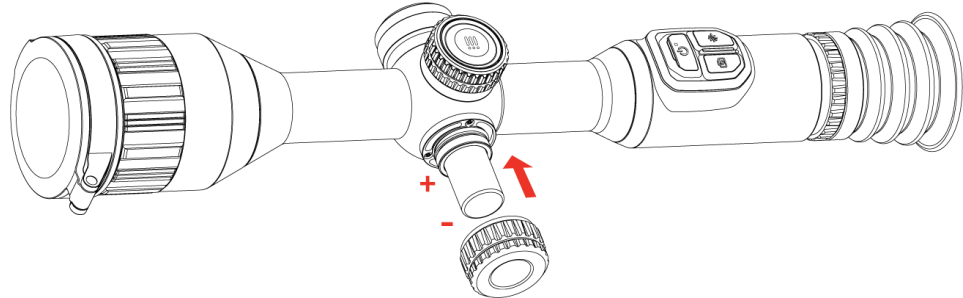


Figure 2-3 Insert the Battery

3. Turn the battery cover clockwise to tighten it.

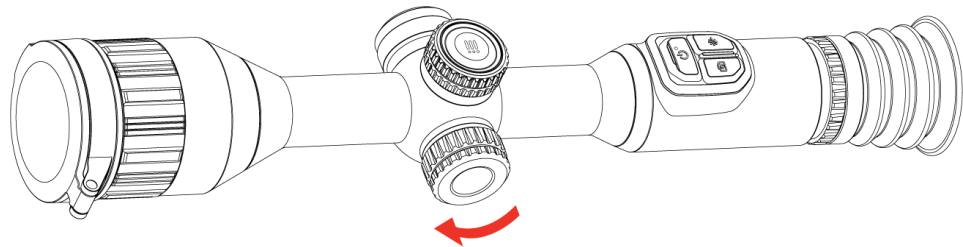


Figure 2-4 Tighten the Cover

2.3 Mount Device on Rail

Steps

1. Unscrew the ring top with an Allen wrench.

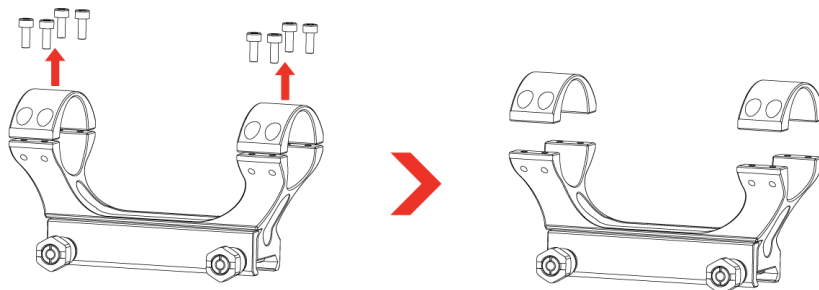


Figure 2-5 Unscrew the Ring Top

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

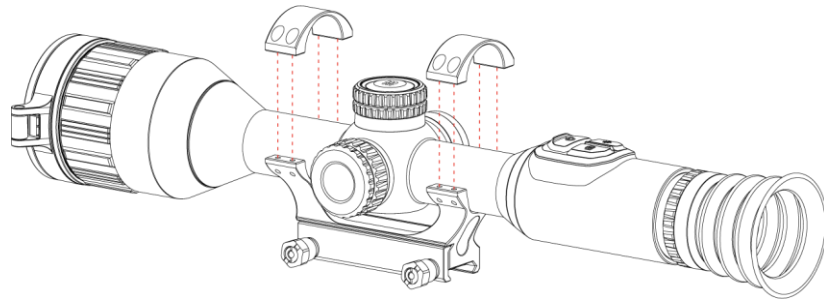


Figure 2-6 Place the Device in the Ring

3. Insert and tighten the screws.

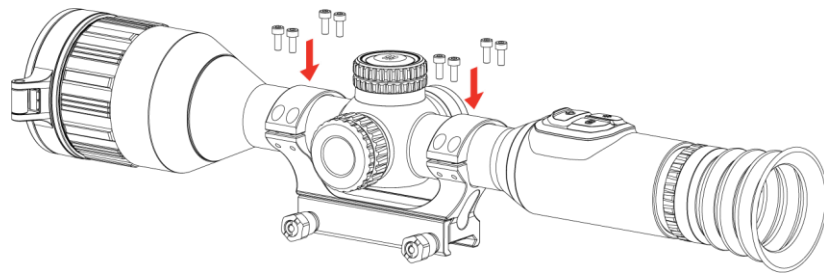


Figure 2-7 Tighten the Screws

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

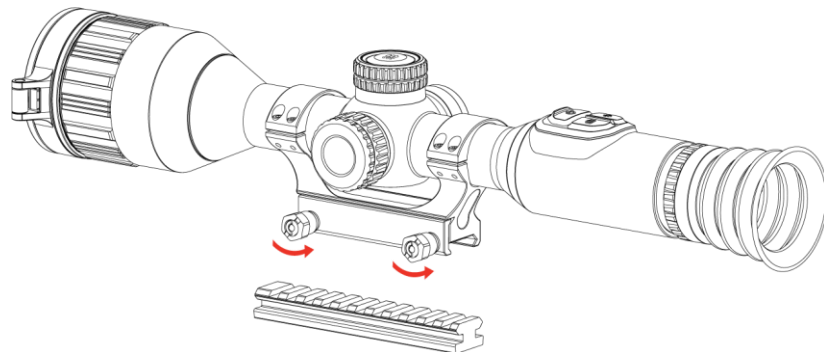


Figure 2-8 Loosen the Screws

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

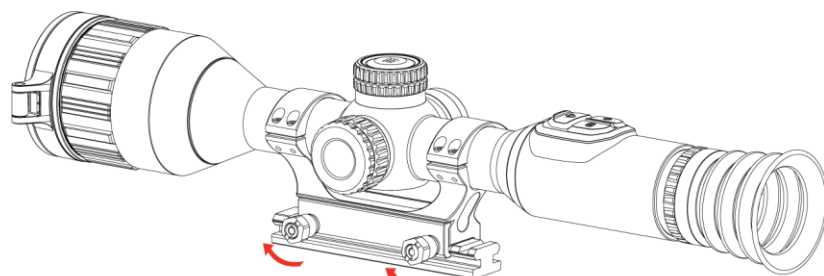


Figure 2-9 Tighten the Screws



Note


- The ring needs to be purchased separately. Please take the actual

product for reference.


- Use lint-free cloth to clean the device base and the rail.
-

2.4 Power On/Off

Power On

When the device is connected to a power adaptor or the battery power is sufficient, hold  to power on the device.

Power Off

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





Note

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

Auto Power Off




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

Steps

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



Note




- See the battery icon for the battery status.  means the battery is fully charged,  means that the battery is low, 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 T-Vision app.
 - The auto power off countdown will start again when the device reenters
-

standby mode, or the device is restarted.

2.5 Auto Screen Off

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

Steps

1. Enable auto screen off.
 - 1) Hold the wheel to show the menu.
 - 2) Go to  **Advanced Settings**, and rotate the wheel to select .
 - 3) Press the wheel to enable auto screen off.
 - 4) Hold the wheel to save settings and exit.
2. The device will enter standby mode by one of the following operations when the display is turned on:
 - Tilt the device downwards more than 70°.
 - Rotate the device horizontally more than 30°.
3. You can wake up the device by one of the following operations when the display is turned off:
 - Tilt the device downwards from 0° to 70° or upwards.
 - Rotate the device horizontally from 0° to 30°.
 - Press  to wake up the device.

2.6 Menu Description

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



Figure 2-10 Device Menu

2.7 App Connection

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

Steps



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



Android System



iOS System

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

5. Rotate the wheel to select **Hotspot**. The hotspot function is enabled and the hotspot password is displayed.
6. Turn on the WLAN of your phone and connect to the hotspot.
 - Hotspot Name: Wlan-Serial No.
 - Hotspot Password: Go to **Hotspot** in the menu to check the password.
7. Open the app and connect your phone with the device. You can view the interface of device on your phone.



Note

- The device cannot connect to the app if you enter wrong password several times. Refer to **Restore Device** to reset the device, and connect the app again.
 - The hotspot will be turned off if there is no connection for over 10 minutes.
-

2.8 Firmware Status

2.8.1 Check Firmware Status

Steps


1. Open the T-Vision app and connect your device to the app.
2. Check if there is  on the right side of **Device Upgrade** in the setting interface. If there is no arrow, the firmware is the latest version. Otherwise, the firmware is not the latest version.




Figure 2-11 Check Firmware Status

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

2.8.2 Upgrade Device

Upgrade Device via T-Vision App

Steps

1. Open T-Vision app and connect your device to the app.
2. Tap  to enter the device setting interface.
3. Tap **Device Upgrade** and switch the network first.
4. Confirm to download the upgrade package.

5. After the upgrade package is downloaded, log in to the device again to upgrade the device.



Note



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

Upgrade Device via PC

Before You Start

Please get the upgrade package first.

Steps

1. Hold the wheel to show the menu.
 2. Go to  **Advanced Settings**, and rotate the wheel to select .
 3. Press the wheel to enter the configuration interface.
 4. Rotate the wheel to select **USB Flash Drive**.
 5. Connect the device to your PC with the type-C cable.
 6. Open the detected disk, copy the upgrade file and paste it to the root directory of the device.
 7. Disconnect the device from your PC.
 8. Reboot the device, and the device upgrades automatically. The upgrading process will be displayed in the main interface.
-



Caution

During the upgrade package transmission, make sure the device is connected to your PC. Otherwise, it may cause unnecessary upgrade failure, firmware damage, etc.

2.9

Zeroing (Overview)

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



Figure 2-12 Zeroing

3 Image Settings

3.1 Adjust Diopter

Steps

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

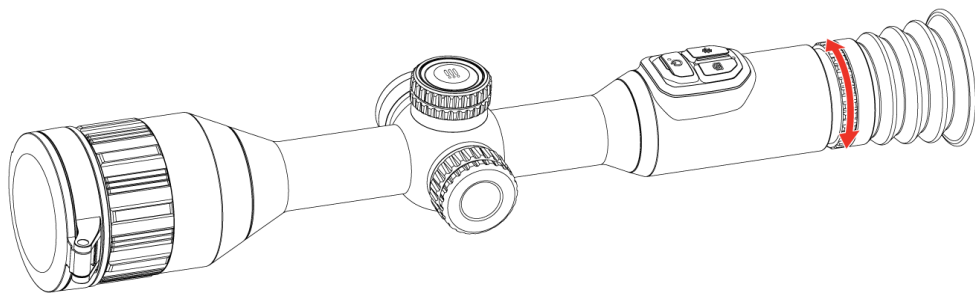


Figure 3-1 Adjust Diopter



Note

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

3.2 Adjust Focus

Steps

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

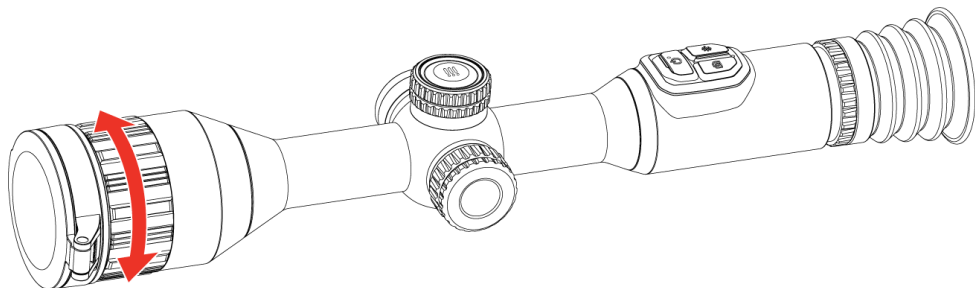


Figure 3-2 Adjust Focus




Note

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

3.3 Adjust Brightness


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

Steps

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

3.4 Adjust Contrast

Steps

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

3.5 Adjust Tone

Steps



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



Figure 3-3 Adjust Tone

3.6 Adjust Sharpness

Steps

1. Hold the wheel to show the menu.



2. Go to  **Advanced Settings**, rotate the wheel to select  and press the wheel to confirm.
3. Rotate the wheel to adjust sharpness.
4. Hold the wheel to save settings and exit.





Figure 3-4 Sharpness Comparison

3.7 Select Scene Mode

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

Steps



1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, rotate the wheel to select  and press the wheel to confirm.
3. Rotate the wheel to switch scene mode.
 - **Recognition**: Recognition mode is recommended in normal scene.
 - **Jungle**: Jungle mode is recommended in hunting environment.
4. Hold the wheel to save the settings and exit.

3.8 Set Palettes

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

3.8.1 Custom Enabled Palettes

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, rotate the wheel to select  and press the wheel to confirm.
3. Rotate the wheel to select the palettes you need, and press the wheel to enable them.




Note

At least one palette should be enabled.

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

3.8.2 Switch Palettes

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

White Hot

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



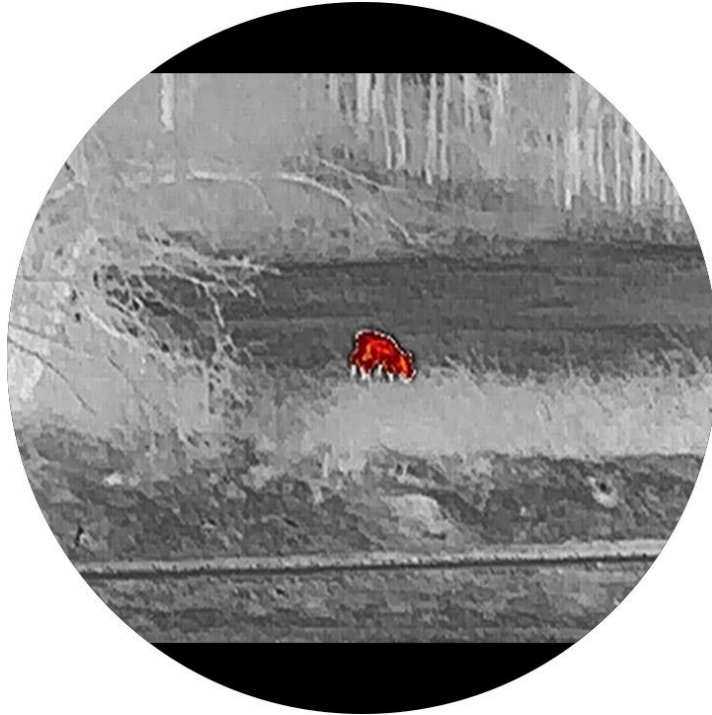
Black Hot

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



Red Hot

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



Fusion

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



Red Monochrome

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



Green Monochrome

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



3.9 Adjust Digital Zoom

You can zoom in and out the image by using this function. Rotate the wheel in the live view interface to switch the digital zoom ratio, and the actual zoom ratio changes by the step of 1×.



Note

- When switching the digital zoom ratio, the left interface displays the actual magnification.
 - The zoom ratio may vary according to different models. Please take the actual product for reference.
-

3.10 Flat Field Correction







This function can correct non-uniformity of display.



Note

For shutterless models, use Manual or Semi-Auto to correct the non-uniformity of display when necessary.

Steps



1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, rotate the wheel to select  **Image Calib.** and press the wheel to confirm.
3. Rotate the wheel to switch the image calibration modes, and press the wheel to confirm.
 - **Auto:** Only available on specific models. The device calibrates image automatically according to the set schedule when switching on the camera.
 - **Manual:** In the live view interface, hold  (LRF model) or  (non-LRF model) to trigger calibration.
 - **Semi-Auto:** Cover the lens cover, and then hold  (LRF model) or  (non-LRF model) to trigger calibration in the live view interface.
4. Hold the wheel to save the settings and exit.

3.11 Correct Defective Pixel

The device can correct the defective pixels on the screen.

Steps

1. Hold the wheel to show the menu.

2. Go to  **Advanced Settings**, rotate the wheel to select  **DPC** and press the wheel to confirm.
3. Press the wheel to select the **X** or **Y** axis. Then rotate the wheel to set the coordinates until the cursor reaches the dead pixel.



Note

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

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



Note

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

3.12 Set Picture in Picture Mode

Steps


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



Figure 3-5 Picture in Picture Mode




Note

- When reticle is enabled, the PIP view is the detail of reticle. When reticle is turned off, the PIP view is the detail of central part.
 - If the PIP function is enabled, only the PIP view zooms when adjusting the digital zoom ratio.
-

3.13 Set Zoom Pro

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

Steps

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

Result

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



Note

According to different models, Zoom Pro will be enabled both in the main image and PIP view, or only in the PIP view when enabling PIP. Please take the actual product for reference.

3.14 Set Pitch Scale

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

Steps



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





Figure 3-6 Pitch Scale

4 Zeroing

4.1 Set Reticle Mode

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

Steps

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





Note

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

4.2 Select Zeroing Profile

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

Steps

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

Result

The right top of the image displays the reticle information. For example, A1-109yd means you are using the No. 1 reticle in zeroing profile A, and the set distance is 109 yards.



Figure 4-1 Using a Reticle



Note

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

4.3



Set Reticle




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

Before You Start

Select a zeroing profile first.

Steps

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

3. Select  **Zeroing**, and press the wheel to confirm. Rotate the wheel to select a reticle No. You can select **OFF** to turn off the reticle.
4. Select  **Type**, and press the wheel to confirm. Rotate the wheel to select the reticle type. 10 types of reticles can be selected.
5. Select  **Color**, and press the wheel to confirm. Rotate the wheel to set the reticle color. **Black, White, Green, and Red** are selectable.
6. (Optional) Repeat 3 to 5 to set other reticles in this zeroing profile.



Note

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

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



Note

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




4.4 Correct Reticle

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

Before You Start

Select a zeroing profile first.

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select  . Press the wheel to enter the setting interface.
3. Select  **Zeroing**, and press the wheel to confirm. Rotate the wheel to select a reticle you want to correct.




4. Set the distance to the target.
 - 1) Rotate the wheel to select  **Distance**.
 - 2) Press the wheel to select the number you want to change.
 - 3) Rotate the wheel to change the number, and press the wheel to finish the setting.
5. Select  **Zoom**, and press the wheel to confirm. Rotate the wheel to set the digital zoom ratio.
6. Aim at the target and pull the trigger. Align the reticle with the point of impact.
 - 1) Aim the big reticle at the target.
 - 2) Select  **Freeze**. Press the wheel to enable the function.
 - 3) Rotate the wheel to set the coordinates until the big reticle aligns with the point of impact. Press the wheel to select axis. If you select X, the reticle moves left and right; if you select Y, the reticle moves up and down. Hold the wheel to finish setting.





Figure 4-2 Enable Freeze



Note

- When you switch the reticle No., a prompt will appear on the interface. Select **OK** to save the parameters for the current reticle.
 - When enabling the freeze function in reticle, you can adjust the position of the cursor on a frozen image. This function can prevent image flutter.
-
7. Hold the wheel to exit the setting interface according to the prompt.
 - **OK**: Save the parameter and exit.
 - **CANCEL**: Exit without saving the parameters.
 8. Pull the trigger again to verify that the aiming point aligns with the point of impact.
 9. (Optional) Repeat 3 to 8 to set the position for other reticles in this zeroing profile.




5 Measure Distance (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. In the menu, rotate the wheel to select , and press the wheel to confirm.
2. Rotate the wheel to select a laser ranging mode and press the wheel to confirm. **Once** and **Continuous** are selectable.
 - **Once**: Measure the distance once.
 - **Continuous**: Measure the distance continuously, and the measurement duration can be selected. The measurement result will be refreshed every 1 s.
3. Hold the wheel to return to the live view interface.
4. Aim the cursor at the target, press  to show the laser icon 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.
-

Result

The distance measurement result is displayed at the upper right of the image.



Figure 5-1 Distance Measurement Result



Caution

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



6 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 the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select  .
Press the wheel to enter the setting interface.
3. Set the parameters for the target.
 - 1) Rotate the wheel to select the target from **Grey Wolf, Brown Bear, Deer, and Custom**.
 - 2) Press and rotate the wheel to set target height.



Note

The available height ranges from 0.1 m to 9.0 m.

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

Result

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



Figure 6-1 Measurement Result

7 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 **Ballistic Calculation** switch is on.
- Make sure the reticle is enabled.
- Make sure you have finished zeroing.

Steps

1. In the menu, rotate the wheel to select . Press the wheel to enter the setting interface.
2. Rotate the wheel to select **Ballistic Profile**, and press the wheel to switch the profile. You can configure and save the settings in respective profiles.
3. Rotate the wheel to select the following parameters, and press the wheel to set or input the data.
 - Ballistic Profile: Select the bullet profile you want to configure.
 - Aim Point Style/Color: Set the style/color of the aim point.
 - Bullet: 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.
4. Press the wheel to switch digit, and rotate the wheel to change the number.
5. Hold the wheel to save and exit.
6. Aim the cursor at the target and press  to measure the target distance. The screen will display the recommended aiming point and the drop distance in the upper right corner of the interface.

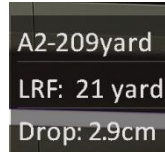


Figure 7-1 Drop Distance

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



Note



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

8 General Settings

8.1 Set OSD

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

Steps

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





Note

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

8.2 Burning Prevention

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

Steps



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

8.3 Hot Tracking

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

Steps

1. Hold the wheel to show the menu.

2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enable the function and mark the spot of highest temperature.
4. Hold the wheel to save settings and exit.

Result



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



Figure 8-1 Hot Tracking

8.4 Capture and Video

8.4.1 Capture Picture

In the live view interface, press  to capture picture.





Note

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

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

8.4.3 Record Video

Steps



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



Figure 8-2 Start Recording



The recording time is displayed on the top.

2. Hold  again to stop recording.

8.4.4 Prerecord Video

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



Steps

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

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



Note





The albums are automatically created and named by year + month. The local pictures and videos of a certain month are stored in the corresponding album. For example, the pictures and videos of June in 2024 are saved in the album named 202406.

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



Note

- Files are arranged in chronological order, with the most recent at the top. If you 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 rotating the wheel.
 - When you are viewing videos, you can press the wheel to play or stop the video.
-

- For deleting an album or a file, you can hold  +  (LRF model) or  +  (non-LRF model) to call the dialogue box, and delete the album or file according to the prompt.
-

8.5 Export Files

8.5.1 Export Files via T-Vision

You can access device albums and export files to your phone via T-Vision.

Before You Start

Install T-Vision on your mobile phone.

Steps

1. Open T-Vision and connect your device to the app. See *App Connection*.
2. Tap **Picture & Video** to access device albums.

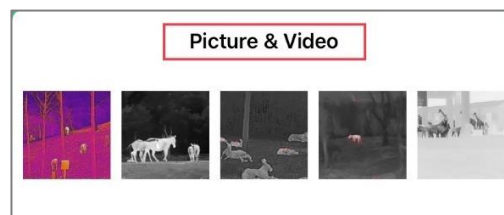



Figure 8-3 Figure 5-3 Access Device Albums

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



Note

- Please refer to the user manual of the app for 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.
-

8.5.2 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 the wheel to show the menu.

2. Go to  **Advanced Settings**, and rotate the wheel to select  .
3. Press the wheel to enter the configuration interface.
4. Rotate the wheel to select **USB Flash Drive**.
5. Connect the device and PC with the Type-C cable.



Note

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

6. Open computer disk and select the disk of device. Go to the DCIM folder and find the folder named after the capture year and month. For example, if you capture a picture or record a video on June 2024, go to **DCIM -> 202406** to find the picture or video.
7. Select and copy the files to PC.
8. Disconnect the device from your PC.





Note

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

9 System Settings



9.1 Adjust Date

Steps

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

9.2 Synchronize Time



Step

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

9.3 Set Language

You can select the device language in this function.



Steps

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

9.4 Set Unit

You can switch the unit for distance measurement.



Steps

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

9.5 Cast Device Screen to PC



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

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to enter the configuration interface.
4. Rotate the wheel to select **Digital**.
5. Hold the wheel to save the settings and exit.
6. Open the UVC protocol-based player, and connect your device to the PC via the type-C cable.



9.6 View Device Information

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to confirm. You can view the device information such as version and serial No.
4. Hold the wheel to exit.

9.7 Restore Device

Steps

1. Hold the wheel to show the menu.
2. Go to  **Advanced Settings**, and rotate the wheel to select .
3. Press the wheel to restore all the parameters (except reticle) of the device to defaults according to the prompt.

10 Frequently Asked Questions

10.1 Why is the monitor off?

- Check whether the device is off-battery, in standby mode or **Auto Power Off** is enabled.
- Check the monitor after charging the device for 5 minutes.

10.2 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*.

10.3 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.

10.4 Why the PC cannot identify the device?

Check the following items.

- Whether the USB connection mode is **USB Flash Drive**.
- Whether the device is connected to your PC with supplied USB cable.
- If you use other USB cables, make sure the cable length is no longer than 1 m.

Legal Information

About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the company website Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Trademarks Acknowledgement

Trademarks and logos mentioned are the properties of their respective owners.

LEGAL DISCLAIMER

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PLEASE FOLLOW ALL THE PROHIBITIONS AND EXCEPTIONAL CAVEATS OF ALL APPLICABLE LAWS AND REGULATIONS, IN PARTICULAR, THE LOCAL FIREARMS AND/OR HUNTING LAWS AND REGULATIONS. PLEASE ALWAYS CHECK NATIONAL PROVISIONS AND REGULATIONS BEFORE PURCHASE OR USE OF THIS PRODUCT. PLEASE NOTE THAT YOU MAY HAVE TO APPLY FOR PERMITS, CERTIFICATES, AND/OR LICENSES BEFORE ANY PURCHASING, SELLING, MARKETING AND/OR USING OF THE PRODUCT. OUR COMPANY SHALL NOT BE LIABLE FOR ANY SUCH ILLEGAL OR IMPROPER PURCHASING, SELLING, MARKETING, AND END USES AND ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES ARISING THEREOF.

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.

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

5150-5250 MHz バンドは室内でのみ使用になります。

For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements.

For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.



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

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

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-003 (B)/NMB-003(B) standards requirements.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

Please pay attention to the following notes when the device is operating in 5 GHz:

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Conformité Industrie Canada ICES-003

Cet appareil répond aux exigences des normes CAN ICES-003 (B)/NMB-003 (B).

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes :

- (1) cet appareil ne doit pas causer d'interférences, et
- (2) cet appareil doit accepter toute interférence reçue, notamment les interférences susceptibles d'occasionner un fonctionnement indésirable de l'appareil.

Cet appareil est conforme aux limites d'exposition au rayonnement IC RSS-102 établies pour un environnement non contrôlé.

Veillez prêter attention aux remarques suivantes lorsque l'appareil fonctionne en 5 GHz:

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

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 Vertriebern 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. Vertrieber 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 Vertriebern 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.

FCC INFORMATION

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. **FCC INFORMATION**
Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

FCC compliance: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help




FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

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 overheating or fire hazards caused by overload.

Battery

- The external rechargeable battery type is 18650, and the battery size is 19 mm × 70 mm. The rated voltage is 3.6 V, and the battery capacity is 3200 mAh.
- The built-in battery type is rechargeable lithium-ion battery, and the battery size is 23 mm × 67 mm. The rated voltage is 3.6 V, and the battery capacity is 3350 mAh.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only.
- Batteries of improper size cannot be installed, and may cause abnormal shutdown.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Please purchase the batteries recommended by the manufacturer if necessary.
- The purchased batteries by users need to comply with the relevant international standards about battery safety (e.g. EN/IEC standards).
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.
- Dispose of used batteries according to the instructions.

- Remove the battery if you do not use the device for a long time.
- For long-term storage of the battery, make sure it is fully charged every half year to ensure the battery quality. Otherwise, damage may occur.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- Install the external battery before the built-in battery runs out, or the device cannot be turned on.
- Make sure the battery temperature is between 0°C to 45°C (32°F to 113°F) when charging.
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature or low air pressure environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Confirm there is no flammable material within 2 m of the charger during charging.
- DO NOT place the device with battery or the battery alone near heating or fire source. Avoid direct sunlight.
- DO NOT place the battery in the reach of children.
- DO NOT swallow the battery to avoid chemical burns.

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.
- Wipe the device gently with a clean cloth and a small quantity of ethanol, if necessary.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Clean the lens with soft and dry cloth or wiping paper to avoid scratching it.

Using Environment

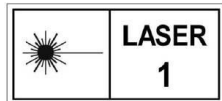
- Make sure the running environment meets the requirement of the device. The operating temperature shall be -30 °C to 55 °C (-22 °F to 131 °F), and the operating humidity shall be from 5% to 95%.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens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

- This equipment is not suitable for use in locations where children are likely to be present.

Emergency

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

Laser



When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out. The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the laser ranging function, make sure no human or inflammable substances are in front of the laser lens. Do not place the device where minors can fetch it. The wavelength is 905 nm, the pulse duration is 35 ns, and the max. average power output is 2 mW. According to IEC 60825-1:2014, EN 60825-1:2014+A11:2021, and EN 50689:2021, this laser product is classified as Class 1 laser product and consumer laser product.

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

