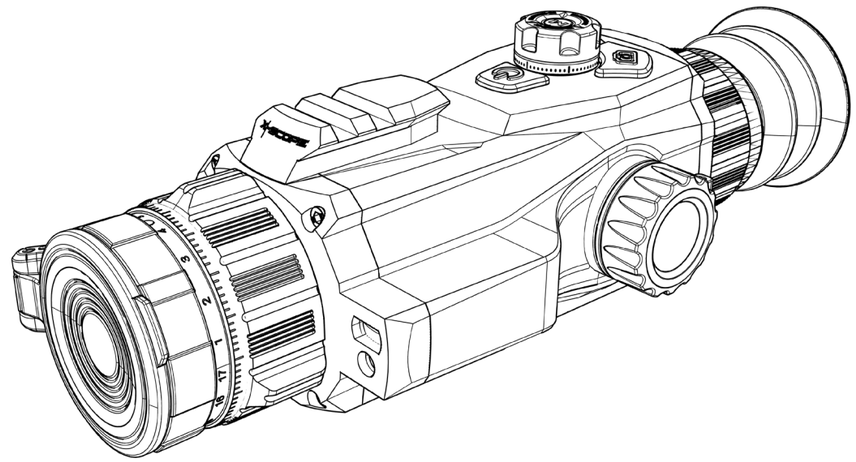
SAGITHUNT



OS25L

Important Safety Information

Environmental influences

- Never point the lens of the device directly at intense heat sources such as the sun or laser equipment. The objective lens and eyepiece can function as a burning glass and damage the interior components.
- Avoid touching the metal surface (cooling fins) after exposure to sunlight or cold.

Ergonomics notes

- Take breaks after longer periods of use to avoid wrist pain.

Risk of swallowing

- Do not place this device in the hands of small children. Incorrect handling can cause small parts to come loose which may be swallowed.

Safety instructions for use

- Handle the device with care: rough handling can damage the internal battery.
- Do not expose the device to fire or high temperatures.
- Install the batteries correctly according to the instruction on the device. Reverse connection is prohibited.
- The battery capacity decreases when operated in a cold ambient temperature. This is not a fault and occurs for technical reasons.
- The recommended temperature for using this product is -20 ° to +50 ° . Otherwise, it will affect the service life of the product.
- Do not store the device for long periods at temperatures below -20° C or above 50° C, or it will permanently reduce the battery capacity.
- Always store the device in a dry, well-ventilated space.
- If the device has been damaged or the battery is defective, send the device to our after-sales service for repair.

Safety instructions for the power supply unit

- Check the power supply unit, cable and adapter for visible damage before use.
- Do not use any defective parts. Defective components must be replaced.
- Do not use the power supply unit in wet or humid environments.
- Only charge the device at temperatures ranging between 0° C and 50° C.
- Do not make any technical modifications.

Disposal of batteries

- 2023/1542 (Battery Regulation): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. For battery details, refer to the documentation of the specific product. The battery is marked with this symbol, which may include Cd (indicating cadmium), Pb (indicating lead), or Hg (indicating mercury). For proper recycling, please return the battery to your supplier or send it to a designated collection point. For more information, visit www.recyclethis.info.

User information on the disposal of electrical and electronic devices (private households)

- 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.

For business customers within the European Union

- Please contact your dealer or supplier regarding the disposal of electrical and electronic devices. He will provide you with further information.

Information on disposal in other countries outside of the European Union

- This symbol is only applicable in the European Union.
- Please contact your local authority or dealer if you wish to dispose of this product and ask for a disposal option.

Intended use

- The device is intended for displaying heat signatures during nature observation, remote hunting observations and for civil use.
- This device is not a toy for children.
- Use the device only as described in this operating manual.
- The manufacturer and the dealer accept no liability for damages which arise due to non-intended or incorrect use.

Function test

- Before use, please ensure that your device has no visible damage.
- Test to see if the device displays a clear, undisturbed image.
- Check that the settings for the thermal imaging monocular are correct.

Installing/Removing the battery

- The ORION Thermal Imaging Scope is equipped with two batteries. One is a built-in battery that is non-detachable, and the other is a replaceable external 18500 battery.

01 Introduction

The brand-new ORION series provides the best value and functionality in compact optics. These devices can be used as both a handheld monocular and a weapon sight. The aluminum alloy body, along with the silent and soft-touch buttons, provides excellent ergonomics in both handheld and weapon-mounted configurations. The device is equipped with an internal and an external battery respectively. The built-in battery ensures that the external battery can be replaced without power interruption, achieving an ideal infinite battery life in theory. The two included 18500 batteries ensure longer field-use time. The built-in battery can be charged on the sight via a USB cable. The generous eye relief and the 1024×768 AMOLED display provide a comfortable and highly clear viewing experience.

02 Features

- 12 um high-performance thermal detector
- ⩽ 25mK sensitivity
- Digital zoom from 1.0-4.0×
- Integrated with an eye-safe laser rangefinder, distance measurement over 700m
- Magnesium alloy housing
- Includes one rechargeable 18500 battery and one built-in battery
- Maximum detection range 1200m
- 1024×768 AMOLED display
- High frame frequency: 50Hz
- Multiple reticle types and color options
- Recoil activated video
- Multiple zero profiles and ranges
- Built-in 32 GB storage to support image capture and video recording
- Built-in Wi-Fi module
- Mobile device App compatible
- Picture-in-Picture (PIP) function

03 Specifications

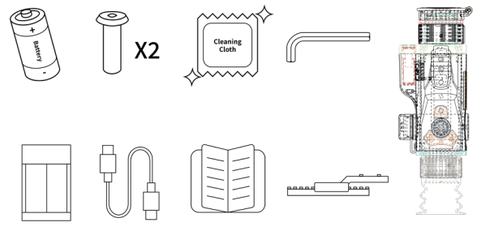
Model	OS19L	OS25L	OX35L	OP50L
Detector Specifications				
Resolution, pixel	256 × 192	256 × 192	384 × 288	640 × 512
Pixel Size, μm	12	12	12	12
NETD, mK	⩽ 25	⩽ 25	⩽ 20	⩽ 20
Frame Rate, Hz	50	50	50	50

Optical Specifications				
Objective Lens, mm	F19 /1.0	F25 /1.0	F35 /1.0	F50 /1.0
Field of View, °	12.5 × 9.4	7.5 × 5.7	12.5 × 9.4	7.5 × 5.7
Linear Field of View (H×V), m at 100m	21.9 × 16.5	13.2 × 9.9	21.9 × 16.5	13.2 × 9.9
Visual Magnification, ×	2 ~ 8	3.5 ~ 14	2 ~ 8	3.5 ~ 14
Eye Relief, mm	48	48	48	48
Diopter Adjustment, D	-5 ~ +5	-5 ~ +5	-5 ~ +5	-5 ~ +5
Exit pupil Diameter, mm	10	10	10	10
Detection Range, m (Target size:1.7m×0.5m, P(n)=99%)	1200	1500	1800	2500
Display Specifications				
Type	AMOLED	AMOLED	AMOLED	AMOLED
Resolution, pixels	1024 × 768	1024 × 768	1024 × 768	1024 × 768
Size, inch	0.39	0.39	0.39	0.39
Power Supply				
Battery Type	Li-ion 18650			
Max Operating Time (t=22 °C), h *	10	10	9	9
Sevice Voltage, V	3 ~ 4.2	3 ~ 4.2	3 ~ 4.2	3 ~ 4.2
External Power Supply, V	5 (Type C)	5 (Type C)	5 (Type C)	5 (Type C)
Physical Specifications				
Wi-Fi / APP	Support (SaigtHunt)	Support (SaigtHunt)	Support (SaigtHunt)	Support (SaigtHunt)
Photo / Video Recorder	Support	Support	Support	Support
Recoil activated video	Support	Support	Support	Support
MIC	Support	Support	Support	Support
IP Rating	IP67	IP67	IP67	IP67
Memory Capacity, GB	32	32	64	64

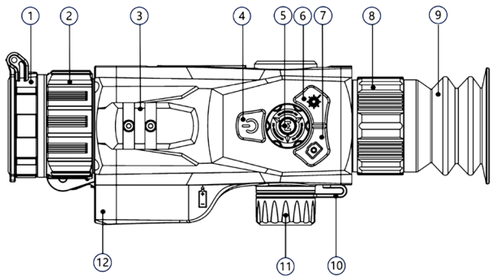
Operating Temperature, °C	-20 ~ +50	-20 ~ +50	-20 ~ +50	-20 ~ +50
Weight, g	⩽ 580	⩽ 580	⩽ 580	⩽ 580
Dimension, mm	216 × 76 × 46	216 × 76 × 46	216 × 76 × 46	216 × 76 × 46
Body Material	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Connections and Compatibilities				
Max. recoil power on rifled weapon (Eo), Joules	6000	6000	6000	6000
Mount	Picatinny mount	Picatinny mount	Picatinny mount	Picatinny mount

04 Package Contents

- OROIN series thermal imaging scope
- 18500 battery ×1
- 18500 battery charger with USB-C cable
- Lens cloth
- Quick Start Guide
- Picatinny mount
- 3mm Hex Key

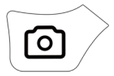


05 Components and Controls



1. Lens Cap	7.Camera Button
2. Objective Lens	8. Eyepiece Ring
3. Picatinny Rails	9.Eye-patch
4. Power Button	10. Lanyard
5. Menu Button	11.Battery Cap
6. Laser Ranging Button	12.Laser Range Finding

06 Button Operation

Button	Current Status	Press	Long Press
	Powered off	——	Power on the device
	Home screen	Enter the standby mode	Power off the device
	Home screen	Start / Stop recording video	Take a photo
	Powered on	Single-shot distance	Continuous distance
	Home screen	Shortcut Menu interface	Main menu interface
	Shortcut Menu interface	Switch shortcut menu options	Return to Home screen
	Main menu First-level options	Confirm selection	Return to Home screen
	Main menu Second-level options	Confirm selection	Return to the previous menu with saving changes

Button	Current Status	Rotate left and right
	Home screen	Adjust the digital zoom level
	Shortcut Menu options	Change parameters
	Main menu First-level options	Navigation upwards/downwards
	Main menu Second-level options	Change parameters

07 Start to Use

Using the Control Buttons

The ORION is operated via four control buttons. The control buttons can be used to perform shortcut operations from the home screen, as well as in the menu and full-screen interfaces. See Description of Control Buttons and Shortcuts in “6 Button Operation” for shortcut button details.

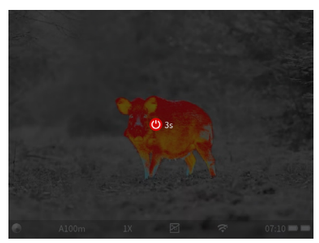
Powering On

- Open the objective lens cap (1).
- Long press the Power Button for 3 seconds to turn on the rifle scope. The SagitHunt logo will appear.
- To determine the current battery charge, check thebattery status icon ( ) in the status bar.

Powering Off

To power off the ORION:

- Long press the Power Button . The shutdown screen will open, showing a 3-second countdown.
- Continue holding the Power Button until the countdown completes.
- “Data saving...” appears onscreen and the rifle scope will shut down after saving.



NOTE: Releasing the Power Button at any time during the 3-second countdown will stop the shutdown process and the rifle scope will resume normal operation.
WARNING: If using an external power supply and no battery is installed, do not remove the power supply when saving data, as the data may not be saved.

Entering Standby

Manually Enter Standby Mode

- To enter standby at any time from the home screen, short press the Power Button about 2-second.
- Short press the Power Button to exit standby.

Set the ORION to Enter Standby Mode Automatically

The rifle scope may be set to automatically enter standby mode.
- In the main menu, set the standby time to 2, 4, or 6 minutes. Once set, the system will automatically enter standby according to the set time.
- Press any button to exit standby mode.

Auto Standby Notes:

- When 2min, 4min, or 6min is selected:
  - The motion sensor must be turned on for auto standby to work.
  - After the set number of minutes of inactivity, the rifle scope will enter standby mode automatically when it is tilted up or down at an angle of more than 70° or left or right at an angle of more than 30° .
  - The ORION will not enter standby mode while it is in a level (horizontal) firing position.
- When off is selected, standby mode is turned off and the rifle scope will operate until the battery runs out.

Adjusting the Focus

Adjusting the Diopter/Eyepiece

- Rotate the eyepiece diopter adjustment ring at the rear of the rifle scope right or left until the user interface is clear.
- Look closely to ensure all icons, the status bar, and the reticle appear sharp and in focus. No additional diopter adjustments are required unless the user wishes to make changes.

NOTES:

- After the initial adjustment, there is no need to rotate the eyepiece adjustment ring for long distances or other conditions.
- If necessary during standard use, the objective lens focus ring may be rotated to adjust fine focus on the target object being observed. See Focusing the Objective Lens below.

Focusing The Objective Lens

To adjust the focus on the target object:
- Rotate the objective lens focus ring left or right to adjust fine focus.

NOTE: Re-adjusting the focus will be necessary if the distance to the target changes.

Activating / Deactivating the Reticle

- The reticle may be inactive when the ORION is powered on for the first time. To activate the reticle, press and hold the **Menu and Power Buttons** at the same time for 15 seconds from the home screen.

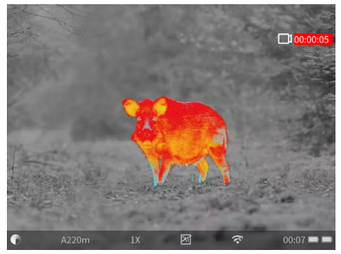
08 Photographing / Video Recording

The ORION series supports photo and video recording. All videos and photos are automatically saved to the built-in 32 GB memory storage.
Press the Photo button to record a video, press and hold the Photo button to take a picture.
Each time a photo is taken, the camera icon on the display will flash once.
Each time a video is recorded, a camcorder icon will appear on the display, along with the recording time.

NOTE: Photo and video files are named with the time and date; therefore, it is recommended to set the date and time before using the photo and video functions.When the device's memory space is less than 50MB, an exclamation mark icon ⓘ will appear, indicating insufficient memory space. Please clear the memory space promptly.

Photographing

Video Recording



Recoil Activated Video Recording

When recoil activated video is turned on in the main menu, a video is automatically recorded when a shot is taken. The SLIM will record 15 seconds before the shot and 2 minutes and 45 seconds after the shot. The video recording timer, in HH:MM:SS (hour, minute, second) format, will appear in the upper-right corner of the screen when video is recording.

NOTES:

- When multiple shots are taken within the same 30-second period, only one video will be taken.
- When recoil activated video recording is turned on, standard video recording is unavailable.

Video and Photography Notes:

- You may enter and navigate the menu during video recording.
  - The user interface (the status bar, icons, and menu) is captured in recorded video or photo files.
- Recorded photos and videos are saved to the memory card.
  - Photos are saved as PIC_HHMMSS.jpg.
  - Videos are saved as HHMMSS.mp4.
  - RAV videos are saved as PRE_HHMMSS.mp4.
  - HHMMSS is hour, minute, second.
- The number of recorded files is limited only by the capacity of the internal memory.

- Regularly check the available memory storage space and move video footage and images to other storage media to free up space on the memory card.

Memory access

When the device is powered on and connected to a computer, it will be recognized by the computer as a flash memory card. Then, you can access the memory of the device and copy images and videos.

- Connect the device to a computer through the USB cable.
- Power on the device.
- Double-click My Computer-Double-click to open the device named SagitHunt 

- Double-click to open the device 

name ORION to access the memory.
- There are different folders named by date in the format of xxxx(year) xx (month) xx (day) in the memory.
- Recorded photos and videos in that day are saved in the folders.
- Select desired files or folders to copy or delete.

09 Zeroing

- The ORION series features the "Freeze" zeroing method. Set up a suitable thermal target at the desired zeroing distance. Perform the zeroing operation according to the following steps:

Step 1:

- Select the type of rifle that needs zeroing, which is match the corresponding one.
- Press and hold the menu button and turn the menu controller to enter the "Zeroing" menu. In the "Aiming Reticle" option, set the zeroing profile to A, B, C, D, E or F.
- Confirm that the rifle is empty and in a safe state, with the muzzle pointing in a safe direction and no ammunition near the weapon.
- Ensure that there is a stable support behind the rifle and maintain a natural shooting posture.

Step 2:

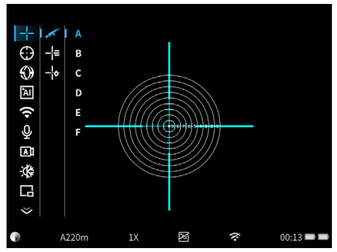
- According to the target distance you want to zero, select or customize a zeroing distance that matches it.
- Select to load ammunition, aim at the target, and make a high-quality shot at the target.
- Ensure that your rifle is in a safe state and observe the position of the bullet impact point on the target through the infrared image.
- If the bullet impact point does not match the aiming point (the center of the aiming reticle), adjust the X/Y position of the aiming reticle.

Step 3:

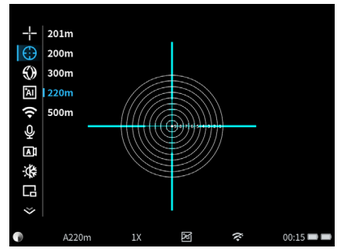
- Find the thermal hole of the bullet impact point under the frozen screen and adjust the crosshair reticle to the center of the thermal hole of the bullet impact point.
- To quickly and conveniently find the center of the thermal hole of the bullet impact point, you can use the "Freeze Image" and "Image Zoom" functions under this

interface for assistance.

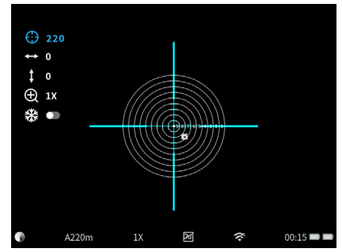
- Turn the menu controller, select the "Image Freeze" icon, and briefly press the "Menu" button to freeze the image.
- Turn the menu controller, select the "Image Zoom" icon. Briefly press the "Menu" button to enable it, and adjust to an appropriate zoom ratio by rotating the menu controller.
- Adjust the X/Y position of the aiming reticle until the reticle coincides with the bullet impact point.
  - Briefly press the "Menu" button to select the X or Y direction. The color of the selected axis will change from white to blue.
  - Turn the menu controller to move the aiming reticle forward.
  - Press and hold the "Menu" button to save the position of the aiming reticle.



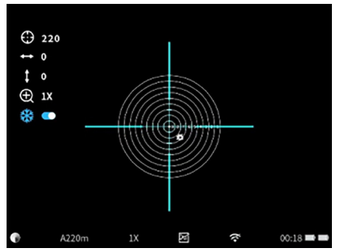
step1



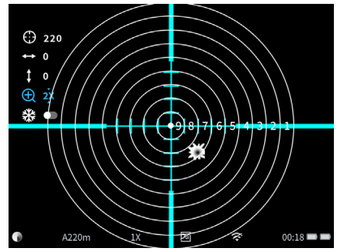
step2



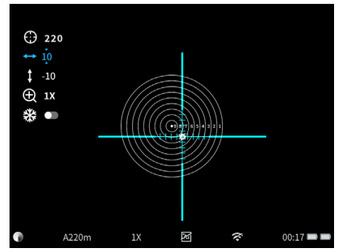
step3



step3



step3



step4

Step 4:

- Make a confirmation shot. At this time, the bullet impact point should coincide with the aiming point. If it does not coincide, you need to go back to Step 2 and readjust the X/Y position of the aiming reticle according to the steps.
- If you change the type of rifle or the zeroing distance, go back to Step 1 and complete the zeroing adjustment according to the steps.

10 Rangefinder and Ballistic Calculation

The device 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: On the live view interface, press the laser rangefinder button to activate the laser rangefinder. Aim the cursor at the target, a single short press enables "single" measurement,

and a single long press enables "continuous" measurement.
Result: The right top of the image displays the distance measurement result.

"Single" and "Continuous" modes.

- The "Continuous" mode means that the distance is measured continuously, and the measurement result is updated once every second.
- The "Single" mode means that the distance is measured only once.

NOTES:
- Laser ranging cannot be enabled when device battery is low.
- You cannot set laser ranging mode when enabling the ballistic calculation, and continuous laser ranging is not available.
- When continuous laser ranging is in use, it will be switched to single mode after enabling ballistic calculation. When ballistic calculation is turned off, the laser ranging mode will be reverted to continuous.
- The measurement accuracy and maximum distance depend on the reflectance of the target surface, the angle at which the emitted beam strikes on the target surface, and the environ mental conditions.
- Reflectance is affected by the target surface texture, color, size, and shape. A glossy or bright surface usually reflects more energy than a dark surface.
- The measurement accuracy is also affected by lighting conditions, fog, haze, rain, snow, and other factors. Light conditions or sunlight will degrade the rangefinder performance.
- Measuring the range of a small-sized target is much more difficult than measuring a large-sized target.

Ballistic calculation

- Press and hold the Menu button to enter the Main Menu. Rotate the Controller to select the Ballistic Calculation option. Within the Ballistic Calculation option, you can set the Ballistic Calculation feature to ON or OFF.
- Within the Profile option, select the bullet profile from 1 to 5. You can also customize the bullet name through the SAIGTHUNT APP.
- Set the unit to MOA or mil.
- Within the SPOA option, you can sequentially set the Suggested Point of Aim to " × ", " + ", " * ", " ..... "; When SPOA is set to Move Reticle, the ACE will automatically move the original reticle to the Suggested Point of Aim.
- Within the Parameter Setting option, you can set parameters for bullets, rifles, and the environment. Parameter settings can also be adjusted through the SAIGTHUNT APP.

11 Digital Zoom

This device can digitally zoom in and out on images. In the live view interface, turn the menu knob to switch the digital zoom magnification. The actual zoom magnification changes in steps of 0.1x.

NOTES:
- When switching the digital zoom ratio, the actual magnification is displayed on the right side of the main screen.
- The zoom magnification may vary by model. Please refer to the actual product.

- When PIP is ON, digital zoom applies only to the PIP screen. When PIP is OFF, digital zoom applies to the main screen.

12 Quick & Combined Button Operations

This device supports custom settings for quick operations. Users can customize the most frequently used shortcut menu options as quick operations.

Implementation of Quick Operations

Steps:
Under the main startup interface, briefly press the "Power Button". The values corresponding to the user-customized shortcut menu options can be cycled through for switching.
Quick operations can support custom configuration of five options under the shortcut menu, including brightness setting, contrast setting, color band adjustment, image mode selection, and zero-calibrated distance selection.

Settings for Quick Operations

Steps:
Long-press the Menu Button to enter the main menu setting interface.
Turn the menu knob to select the quick operation icon interface.
Briefly press the Menu Button to enter the quick-switching options. Select the option that needs to be configured as a quick operation.
Long-press to exit the menu interface and enter the real-time screen. The configuration of the quick-operation buttons will be automatically saved and recorded after the device is turned off.

Functions of Combined Buttons

- Press "Power button " + "Photo button " simultaneously: Achieve manual shutter calibration.
- Press "Power button " + "Laser button " simultaneously: Achieve manual background calibration.

13 Calibrition

When the image is degraded or uneven, it can be improved by calibration. Calibration can equalize the background temperature of the detector and eliminate the image defects (such as vertical bars, phantom images, etc.).
There are three calibration modes in total: automatic shutter calibration (A), manual shutter calibration (M), and manual background calibration (B).
Automatic shutter calibration (A): Device will calibrate automatically according to the software algorithm. There is no need to close the lens cover (the internal shutter covers the sensor). Before automatic calibration, there will be a 5 second countdown prompt behind the shutter icon on the status bar, that can be used to cancel this calibration during countdown with a short press of the Power button.
Manual Calibration (M): On the Home screen, press "Power button " + "Photo button " simultaneously briefly for manual shutter calibration without closing the lens cover.
Background Calibration (B): On the Home screen, press "Power button " + "Laser button " simultaneously briefly, then a prompt appears on the display as "cover lens during calibration".

Cover the lens cap and background calibration will be done after 2s. After calibration, remove the lens cover.

14 Power Supply

ORION series uses a dual power supply system: a built-in rechargeable lithium-ion battery pack and a replaceable 18500 battery, with dual battery power for up to 10 hours of normal operating time. The battery should be fully charged before the first use.

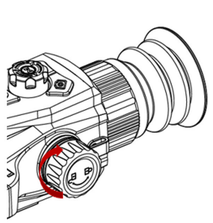
Charging the Built-in Battery

- Charge the built-in battery via the Type C interface.
- Pull the cover to open or hide the type C interface.

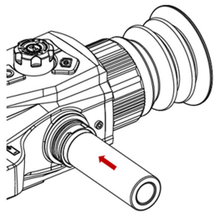
Installing the replaceable 18500 battery

Please install the 18500 battery correctly according to the following steps:

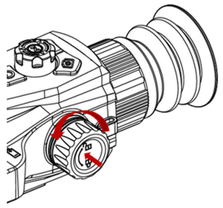
- Press and rotate the battery cover approximately 90 degrees in the direction indicated for unlocking.
- Insert the battery into the battery compartment according to the direction of the electrode indicated on the device body. This device is equipped with a built-in battery. If the external battery is being replaced while the built-in battery is still powered and the device is in working condition, there is no need to turn the device on or off again for restarting.
- After inserting the battery, press and rotate the battery cover in the direction indicated for locking.



step 1



step 2



step 3

NOTES:

- If the device is not to be used for an extended period, remove the external battery.
- This device is equipped with a built-in battery, which can be charged via the Type-C interface of ORION.
- The external replaceable 18500 battery should be charged with a separate battery charger and cannot be charged via the Type-C interface of ORION.

Safety precautions

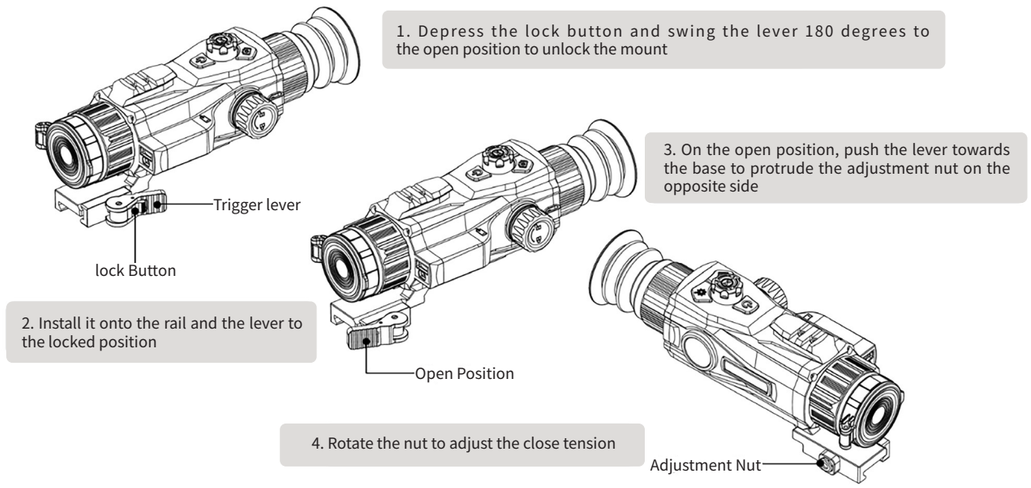
- When charging, please use the 5V2A power adapter compatible with the device. Using any other type of adapter may cause irreversible damage to the battery or the adapter itself.
- If the device is not used for a long time, the battery should be partially charged, not fully charged or discharged.

- Do not charge the device immediately after it is moved to a warm environment from a cold environment. Wait for 30 to 40 minutes for preheating.
- Do not use the charger if it is modified or damaged.
- The device should be charged at a temperature of 0° C to +40° C.
- Otherwise, the battery life will be significantly reduced.
- When charging, please do not leave the battery unattended.
- Do not connect the battery to the power supply for more than 24 hours after it is already fully charged.
- It is not recommended to connect third-party devices that consume more energy than the allowed value.
- The device is equipped with a short circuit protection system, but conditions that may lead to a short circuit should be avoided.
- Use the device at the recommended operating temperature from -20° C to +50° C. Do not use the device beyond this temperature range, or otherwise, the use may shorten the battery life.
- When the device is used under sub-zero temperature, the battery capacity drops. This is normal and does not indicate a defect.

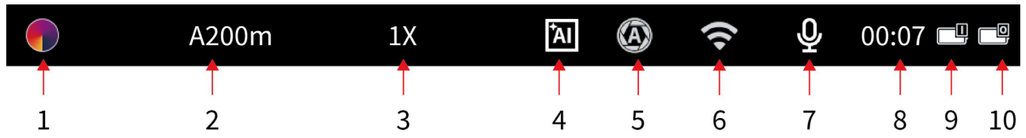
15 Mount Installation

This device is equipped with a customized quick-release mount, which facilitates quick installation on the rifle's Picatinny rail. Please follow the steps below for proper installation and use.

- Depress the lock button and swing the lever 180 degrees to the open position to unlock the mount.
- Install it onto the rail and move the lever to the locked position.
- On the open position,push the lever towards the base to protrude the adjustment nut on the opposite side.
- Rotate the nut to adjust the close tension.



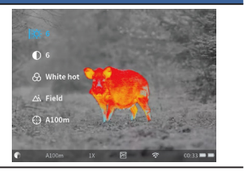
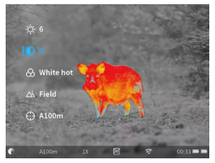
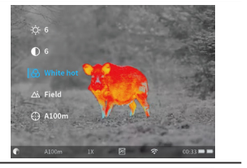
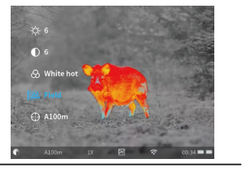
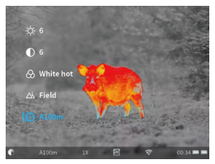
16 Status Bar Icons



- 1.Color band
- 2.Current rifle selection and zeroing distance
- 3.Magnification
- 4.AI Super-resolution mode
- 5.Compensation prompt
- 6.WiFi status
- 7.Microphone status
- 8.Clock
- 9.Built-in battery level
- 10.External battery level

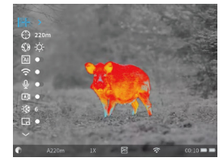
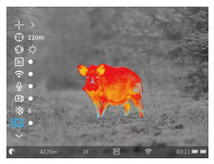
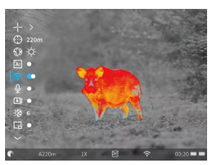
17 Shortcut Menu

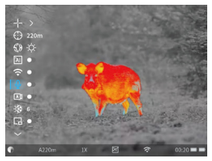
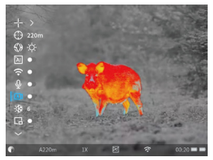
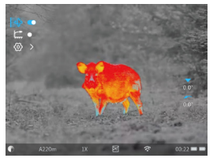
On the main live screen, press the Menu button to enter the Shortcut Menu options.
On the Shortcut Menu, press the Menu button to switch between different Shortcut Menu options, and rotate the knob to adjust the parameters of the Shortcut Menu.
If there is no operation for 7 seconds, the Shortcut Menu will exit automatically.
You can also exit the Shortcut Menu screen by pressing and holding the Menu button.

Menu	Function and operation description
Screen brightness	Short press the Menu button to enter the shortcut Menu options, and switch to Screen Brightness options. Within the Screen Brightness options, Rotate the knob to switch between different screen brightness levels. Screen brightness has 10 levels to choose from, we recommend a screen brightness of 5. 
Image contrast	Short press the Menu button to enter the shortcut Menu options, and switch to Image Contrast options. Within the Image Contrast options, Rotate the knob to switch between different Image Contrast levels. Image Contrast has 10 levels to choose from, we recommend a Image Contrast of 5. 
Color mode	Short press the Menu button to enter the shortcut Menu options, and switch to Color Mode options. Within the Color Mode options, Rotate the knob to switch between different Color Modes. The color modes include: White Hot, Black Hot, Red Hot, Rainbow, and Viridian. 
Image mode	Short press the Menu button to enter the shortcut Menu options, and switch to Image mode options. Within the Image mode options, Rotate the knob to switch between different Image mode. The scene modes of this device's images include: natural mode and jungle mode. 
Zeroing Distance	Short press the Menu button to enter the shortcut Menu options, and switch to Zeroing Distance options. Within the Zeroing Distance options, Rotate the knob to switch between different zeroing distances. **NOTE:** You can only switch the zeroing distances that have already been zeroed. 

18 Main Menu

Press and hold the Menu button to open the Main Menu:
Within the Main Menu options, rotate the controller to switch between different main menu options. Icons change from white to blue when a Main Menu option is selected.
Press the Menu button to adjust the parameter settings of the Main Menu:
If there is no operation for 7 seconds, the Main Menu will exit automatically. You can also exit the Main Menu screen by pressing and holding the Menu button or pressing the Power button.
Within the Main Menu options, you can perform the following settings:

Main Menu	Function and operation description
	• Press and hold the Menu button to enter the Main Menu interface.  • Rotate the Knob to switch to the Reticle option. • Within the Reticle option, there are three submenu options: 1. Reticle Type 2.Reticle Color 3.Zeroing Profile • Within the Reticle Type option, there are 7 reticle styles to choose from. Type 8 allows users to customize their own reticle types via the APP. • Within the Reticle Color option, there are 8 reticle colors to choose from: Black Red, Black Green, White Red, White Green, Black White, White Black, Red, and Green. • Within the Zeroing Profile option, there are A/B/C/D/E/F/G, a total of 7 rifle types to choose from. • If you switch to a rifle type that has not been zeroed, it will prompt "There is no zeroing data for this gun. Please use it after zero. " **NOTE:** The zeroing profile can be customized and named via the APP.
	This menu item enables the zeroing function. For details, refer to "Zeroing Settings" in this document. (A jump link can be created in the PDF.)
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the Ballistic Calculation option. Please refer to the "Rangefinder and Ballistic Calculation" section for detailed guidance. (A jump link can be created in the PDF.)
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the PIP option. Within the PIP option, press the Menu button to enable or disable PIP mode. 
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the WIFI option. Within the WIFI option, press the Menu button to enable or disable WIFI. After the Wi-Fi function is on, search for the Wi-Fi signal with the name "os_camera" on the mobile device. Select the Wi-Fi and enter the password to connect. The initial password is 12345678. When Wi-Fi is successfully connected, it supports to control the scope via the SagitHunt APP downloaded in the mobile device. Setting Wi-Fi name and password. 

	The name and password of the Wi-Fi in ORION series can be reset on the SagitHunt app. After the scope is connected to a mobile device, locate and click the "Settings" icon on the SagitHunt image screen to enter the WiFi setting interface. In the text box, enter and submit the new Wi-Fi name (SSID) and password. It needs to reboot the device to take the new name and password effect. **NOTE:** If the device is reset to the factory settings, the name and password of the Wi-Fi will also be restored to the default settings.
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the Microphone option. Within the Microphone option, press the Menu button to enable or disable the Microphone function. The Microphone icon is displayed on the status bar. 
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the Recoil Activated Video option. Within the Recoil Activated Video option, press the Menu button to enable or disable the RAV function. When RAV is enabled, shooting automatically triggers video recording. For detailed operations, refer to the "Photos and Recording Videos" section in this document. (A jump link can be created in the PDF) 
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the Motion Sensor option. Within the Motion Sensor option, press the Menu button to enable or disable the Motion Sensor. When the motion sensor is turned on, scales representing the tilt angle and the pitch angle respectively will be displayed on the left side of the screen. 
	Press and hold the Menu button to enter the Main Menu interface. Rotate the Knob to switch to the Image Hue option. Within the Image Huge option, press Menu button to choose Warm Hue ( )or Cool Hue( ). Cold hue mode Image will be more contrast, more hierarchy, and more obvious targets. Warm hue mode Image will be softer. It can reduce the visual fatigue of the observer, and long time observation is not dazzling. **NOTE:** The default setting is Cool Hue.OS model only supports screen brightness adjustment.
	Set system languages Within the Languages option, rotate the knob to switch different languages. Languages available for the ORION series include English, German, Spanish, Italian, French, Swedish, Norwegian, Polish, Czech, Slovak, Hungarian, and Dutch. After the adjustment is completed, press and hold the Menu button to save and exit Languages option.

	Set system date Within the Date option, short press the Menu button to switch the Year / Month / Day option; Rotate the Knob to adjust the value of Year / Month / Day. After the adjustment is completed, press and hold the Menu button to save and exit Date option.
	Set system time Within the Time option, short press the Menu button to switch the Hour / Minute option; Rotate the Knob to adjust the value of Hour / Minute. After the adjustment is completed, press and hold the Menu button to save and exit Time option.
	Set system unit Within the Unit option, rotate the Knob to switch the unit of Meter or Yard. Press Menu button to select Meter / Yard. After the adjustment is completed, press and hold the Menu button to save and exit Unit option.
	Firmware Update Within the Firmware Update option, you can use the manufacturer-provided specific file to update the system firmware. Of course, you can also upgrade the system through the SagitHunt APP. Notes: When using the firmware update function, please strictly follow the manufacturer's instructions.Please refer to the "FW Updates and APP" section for detailed guidance for FW update by APP. （A jump link can be created in the PDF）
	Factory reset Within the Factory Reset option, you can use Menu button ant Controller to set ACE to factory default settings.
	System information Within in the Info option, you can press the Menu button to enter the Info interface to View the device information.

19 FW Updates and APP

The ORION series Thermal Imaging Scope allows you to transmit images to a smartphone or tablet via Wi-Fi in real time mode.
Continuous improvements will be made to improve the user experience. The latest programs can be automatically detected and updated via the SagitHunt APP.
Also, it is feasible to download and update from the official website: www.sagithunt.com.

About SagitHunt

You can download and install the SagitHunt APP on the official website (www.nocpix.com) or the app store. Alternatively, you can scan the QR code below to download it for free.

- Open the SagitHunt APP after installation.
- If your device has been connected to a mobile device, please turn on the mobile data of the mobile device. After connection, an update prompt will be displayed automatically on the App.

SagitHunt automatically registers the last connected device. Therefore, once you have connected with SagitHunt before, it will automatically detect the update even when the scope is not connected to the mobile device.
If an update is available and the mobile device accesses the Internet, you can download the update first. Then when the device is connected with the mobile device, it will be updated automatically.
After the update is installed, the device will restart automatically.

20 Maintenance

The maintenance should be carried out at least twice a year and includes the following steps:

- Wipe the surface of metal and plastic parts to clear off dust and dirt by using a cotton cloth. Silicone grease may be used for the cleaning process.
- Clean the electric contacts and battery slots on the device using a non-greasy organic solvent.
- Check the glass surface of the eyepiece and lens. If necessary, clear off the dust and sand on the lens (it is perfect to use a non-contact method). Use a specialized wiping tool and solvent to clean the optical surfaces.

21 Troubleshooting

The following table lists all problems that are likely to occur during device operation. Check and address problems by referring to this table. If faults not included in this table occur or you cannot fix the fault, return the device to its vendor or supplier for troubleshooting.

Fault	Possible Causes	Solution
The scope cannot be started.	The battery is out of charge.	Charge the battery.
The device cannot be powered by using an external power supply.	The USB cable is damaged.	Replace the USB cable.
	The external power supply is insufficient.	If necessary, check the external power supply.
The image is too dark. The target and the background cannot be effectively distinguished	The settings for image brightness and contrast do not match.	Readjust the image brightness and contrast.
	The screen is not bright enough.	Adjust the display brightness.
The icons and the image are both blurry.	The diopter of the eyepiece has not been adjusted.	Rotate the eyepiece adjustment ring to adjust the diopter to an appropriate position.
The icons are clear but the image is blurry.	The lens is not focused.	Rotate the lens focus ring to adjust the focus.
	The inner or outer optical surface of the lens is dusted or iced.	Wipe the outer optical surface by using a soft cotton cloth or leave the scope to dry in a warm and dry environment for more than 4 hours.
The scope cannot focus.	There are stains or frost on the lens or eyepiece.	Check the outer surface of the objective lens and eyepiece, and if necessary, wipe off any dust and frost on it. In cold weather, a special antifogging coating can be applied (such as those used on eyeglasses or car rearview mirrors).
The device cannot connect to the mobile device.	The Wi-Fi password is incorrect.	Enter the correct password.
	Too many Wi-Fi networks around the device.	Move the device to an area with no or fewer Wi-Fi signals.
Wi-Fi signals are lost or interrupted.	The device is beyond Wi-Fi coverage. There is blocking (such as concrete walls) between the device and the receiver.	Move the device to a place where you can receive Wi-Fi signals.
The observed target disappears.	Observation through glass.	Observe the target directly without the presence of glass.
Images are unclear, vertical lines are present, or the background is not even.	Calibration is required.	Calibrate the images as instructed in this User Manual.
When the device is used at a low temperature, the imaging quality is poorer than that at a normal temperature.	At temperatures above 0° C, the temperature rise varies with the observed objects (environment and background) due to different heat conductivity coefficients. As a result, high-temperature contrast occurs and the image quality is better. At low temperatures, the observed targets (background) usually cool down to a similar temperature because of reduced temperature contrast. Therefore, the image quality (details) is poor, which is a characteristic of thermal imaging devices.	

22 Legal and Regulatory Information

Wireless transmitter module frequency range:

2.4G: 2.402-2480 GHz
Wireless transmitter module power < 20 dBm

5G 5.150-5.850 GHz
Wireless transmitter module power < 10 dBm
We hereby declares that the radio equipment types is in compliance with the Directives 2014/53/EU and 2011/65/EU

FCC Statement
FCC ID: 2BODCORION

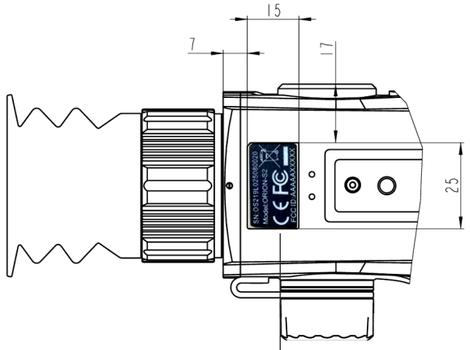
Labeling requirements
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to the user
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

EMC: Class A

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

23 Certification Labels



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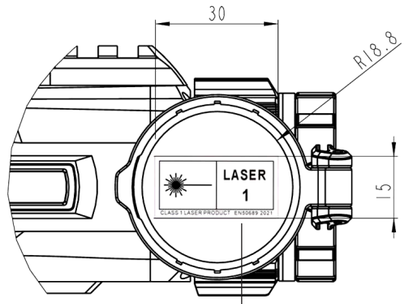
FCC ID: 2BODCORION
Model: OS25L Made in China



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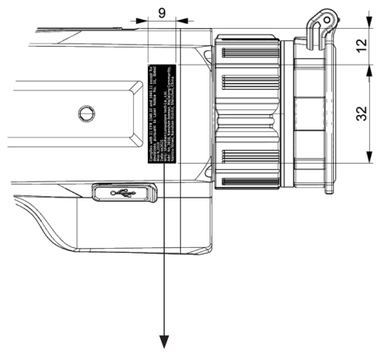

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 56, dated May 8,2019
Date: xx2025
MFG：Shenzhen Lunaxplore Tech Co., Ltd.
Add：No. 3838, Nanshan Avenue, Majialong Community, Nantou Street, Nanshan District, Shenzhen, China