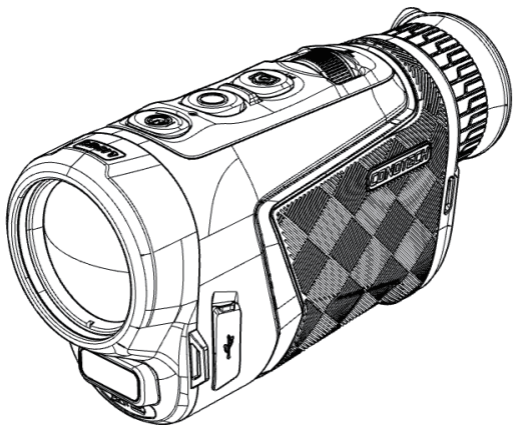


**CONOTECH**

# **LIPOT**

**THERMAL IMAGING MONOCULAR**



**INSTRUCTION MANUAL**

RoHS **CE** 

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# Attention!



Proper usage of this device is essential for safe operation.  
Please read this manual carefully before use.



If the device has been in storage for an extended period, check its functionality before use.



Do not disassemble the device.  
Only an authorized repair center is allowed to do this.



Ensure the external optical surfaces remain clean.  
Avoid touching them with bare hands.



Sand and sea water can damage the optical coatings.



Never point the device directly at the sun.



Image quality may vary depending on environmental and atmospheric conditions.  
For instance, at sunset, temperature differences between objects can enhance contrast.



**Remove batteries and store them in polyethylene bags to avoid contact with metal if the device will be stored for an extended period.**



**Use the protective lens cap during transportation or storage.**

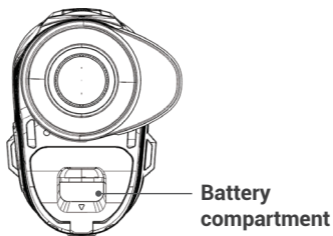
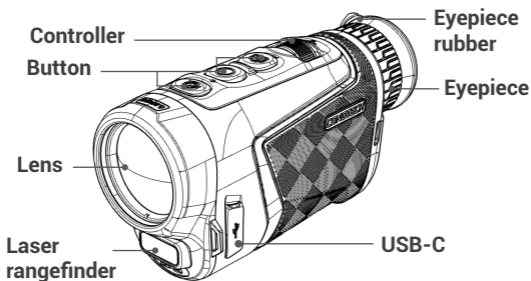


**Condensation may fog the optical surfaces. This occurs when the device transitions between environments with differing temperatures or humidity levels. Once the temperature stabilizes, condensation will dissipate. Wipe away moisture with the towel.**



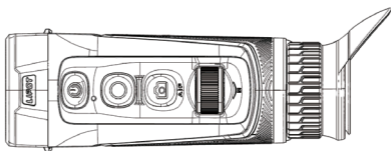
**Clean lenses with the Lens Cloth or napkin.**

# Appearance



All images used in this instruction manual are for illustrative purpose only. Actual product may vary due to product enhancement. (V.1.1)

# Controls



**Short press:**

Standby

**Long press:**

Turn on/off



**Short press:**

Enter LRF measurement

**Long press:**

AI Focus



**Short press:**

Take photos

**Long press:**

Video recording



+



**Short press:** NUC

**Short press:**

Enter quick menu

**Short press twice:**

Enter manual focus

**Long press:**

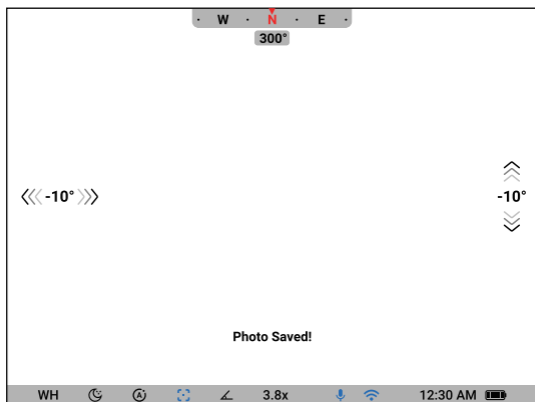
Enter/Exit main menu or Exit quick menu

**Rotate:**

Zoom in/Out

## Photography


Short press the  to capture a photo.

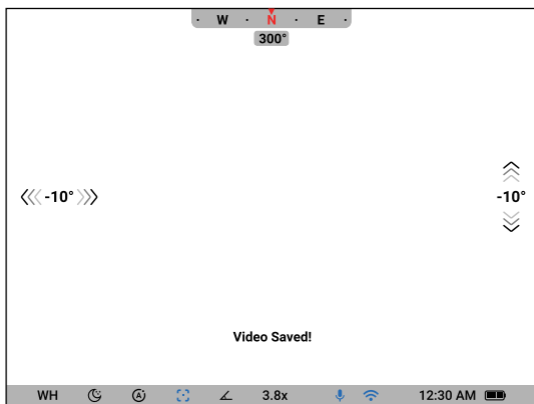



All photos are stored in the device's built-in memory.

Users can download photos via the CONOTECH app or by connecting to a computer.

## Video recording

Long press the  to start video recording. The recording time is displayed on the screen in MM:SS format (minutes:seconds).



Long press the  again to stop and save the recording. All videos are stored in the device's built-in memory.


Users can download videos via the CONOTECH app or by connecting to a computer.

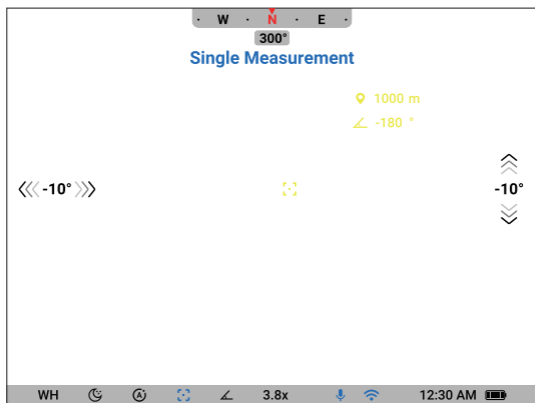


The number of files is limited by the device's internal memory capacity.

To ensure sufficient storage, regularly check the available space and transfer videos and photos to external media as needed.


## Laser rangefinder

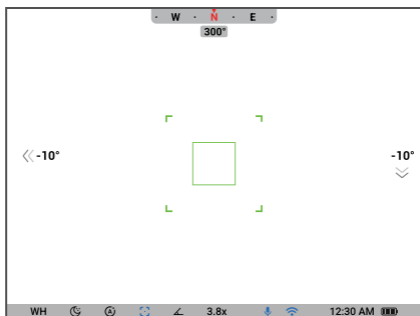
Short press  to enter laser rangefinder, then distance will be shown on the screen.





If the Show Angle feature is turned on, then the angle will be displayed on the screen alongside the distance.

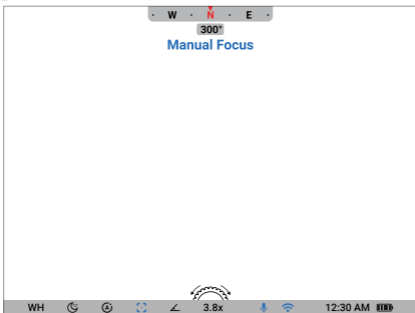
## AI focus

Long press  to enter AI focus. When AI focus finishes automatically, a green box will be displayed on the screen.

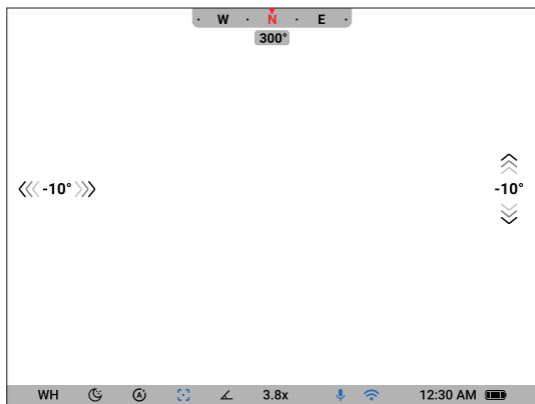


## Manual focus

Short press  twice to enter manual focus, rotate the  to focus on the target






# Status Display

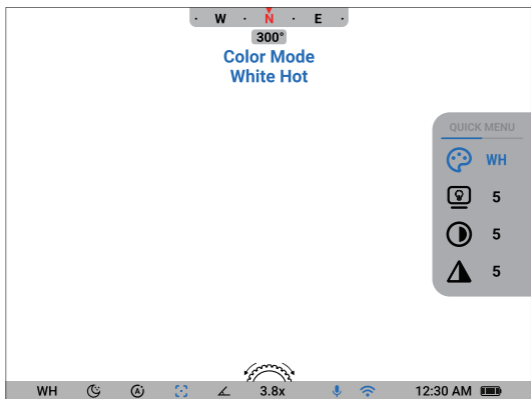


The status icons are respectively located on the display and show information on the actual operating status of the device, including:



- Direction
- Color mode
- Image mode
- Calibration mode
- Rangefinder
- Horizontal / Pitch angle
- Magnification
- Microphone
- WIFI
- Real time
- Battery

# Quick Menu

Short press the  to enter the quick menu, rotate the  to select the functions, then short press the  again to enter the selected function.





## Color Mode

Rotate the  to select the palette, long press the  to save and exit.





## Screen Brightness

Rotate the  to select the Screen Brightness from 1-10, long press the  to save and exit.





## Contrast

Rotate the  to select the Contrast from 1-10, long press the  to save and exit.





## Sharpness

Rotate the  to select the Sharpness from 1-10, long press the  to save and exit.



## Image mode

Rotate the  to select the Sharpness from Clear Night, Rain or Foggy, long press the  to save and exit.



 Clear Night

 Foggy

 Rain





## PIP

Short press the  to turn on/off PIP, long press the  to save and exit.









## WIFI

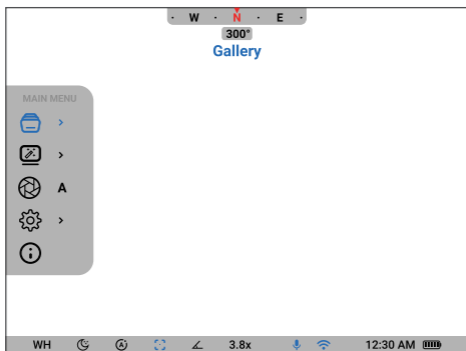
Short press the  to turn on/off WIFI, long press the  to save and exit. The WIFI password is 12345678.








## Hot tracking

Short press the  to turn on/off Hot tracking, long press the  to save and exit.

Long press the  to enter the Main menu, rotate the  to select the functions, then short press the  again to enter the selected function. Long press the  to save and exit.




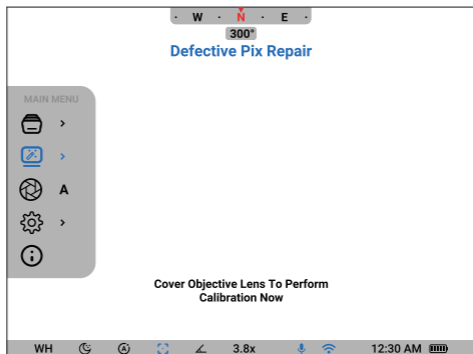
## Gallery

Short press the  to enter Gallery, rotate the  to select the Gallery files, then short press the  again to enter the selected file. Rotate the  to select the video or image, then short press the  again to show or delete the selected video or image.





## Defective Pixel Repair

Cover the objective lens and short press  to perform defective pixel repair.



## Calibration Mode

Short press , then rotate to select the A, M, S.  
Short press  to save and exit.



**A** Automatic

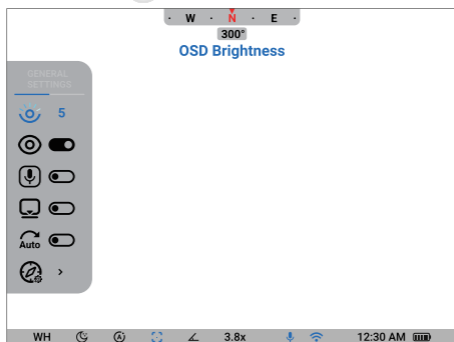
**M** Manual

**S** Silent





## General Settings

Rotate the  to select the function. Long press the  to save and exit.




## OSD Brightness

Short press the  to enter OSD Brightness, rotate the  to select from 1-10.



## Extreme Mode


Short press the  to turn on/off Extreme Mode.




## Microphone

Short press the  to turn on/off Microphone.



## Pure Mode

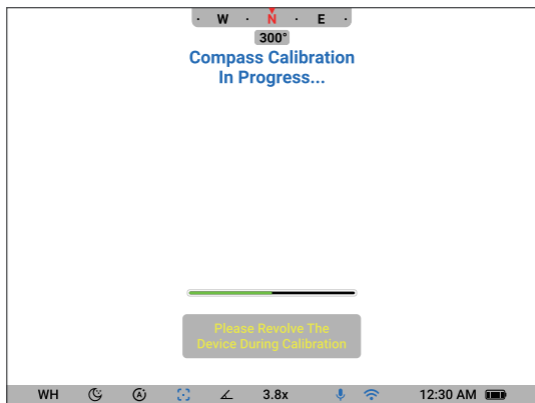
Short press the  to turn on/off Pure Mode.

## Auto Standby

Short press the  to turn on/off Auto Standby.







## Compass Settings

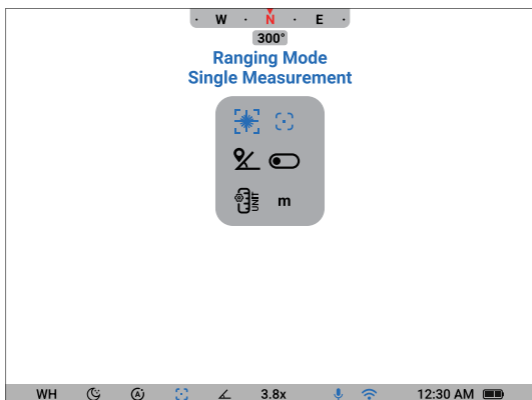
Short press the  to enter Compass Settings, then short press the  again to turn on/off compass.







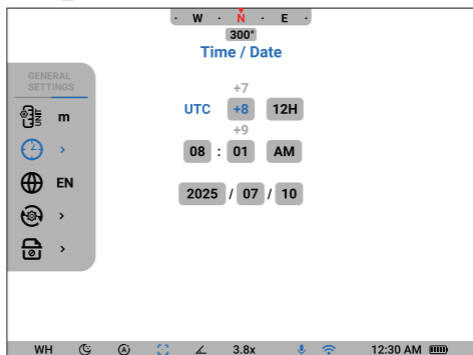
## Measurement Settings

Short press the  to enter Measurement Settings. Then short press the  again to select Single Measurement or Continuous Measurement. Rotate the  to select Horizontal Distance, short press the  to turn on/off. Rotate the  to Unit Settings, Short press the  to select Meter or Yard.





## Time/Date



Short press the  to enter Time/Date, rotate the  to select the Time/Date value.





## Language Settings

Short press the  to enter Language Settings, rotate the  to select the Language.

## Default Settings

Short press the  to enter Default Settings, rotate the  to select Back or Sure.

## Internal Storage

Short press the  to enter Internal Storage, rotate the  to select Back and Sure, the info shows the available storage.

## Device Info

It indicates the Model name, S/N, software version, hardware version and WIFI hardware version.

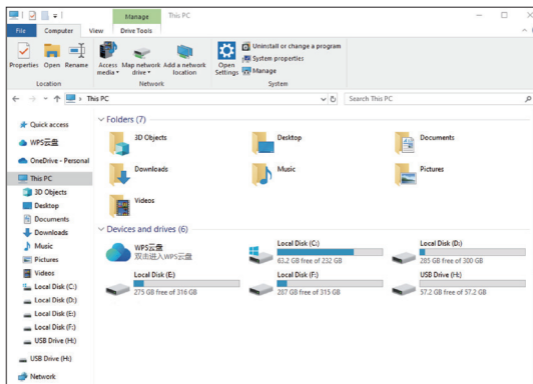
## Firmware update via APP

Easily keep your device at the forefront of technology with firmware updates directly through our dedicated app.

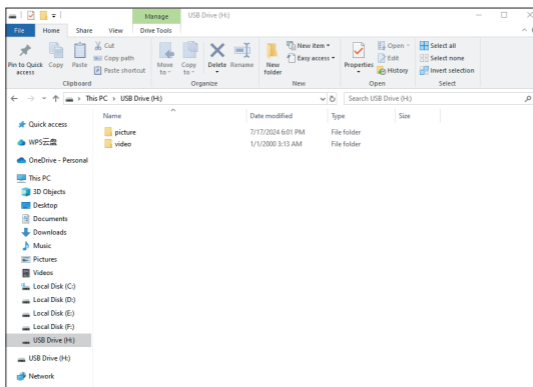


# How to replay on PC

Connect the USB-C cable to the PC



Click to the Driver.

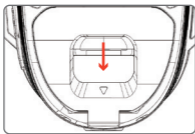


## Removable battery

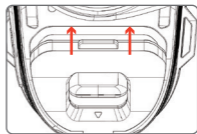
Please install the battery based on the positive and negative signs.

Replace the battery and close the compartment knob.

Open



Close



## External power supply

External power can be supplied from an external source, such as a power bank.

## Cable connection

Power supply /Charge built-in battery.

# Precautions for Battery

- After extended periods of storage, the battery should be partially charged rather than fully charged or fully discharged.
- Do not initiate charging immediately after transferring the battery from a cold to a warm environment. Allow it to acclimate for 30 to 40 minutes.
- Avoid charging the battery without supervision.
- Charge only within the recommended temperature range of 0°C to +45°C to prevent degradation of battery lifespan.
- Charging should not exceed 24 hours under any circumstance.
- Keep the battery away from high temperatures and open flames.
- Do not submerge the battery in water or expose it to moisture.
- Ensure that any external devices connected to the battery do not exceed the allowable current draw.
- While the battery includes short-circuit protection, care must be taken to avoid situations that may cause a short circuit.
- Disassembling or modifying the battery without qualified guidance is strictly prohibited.

# Storage and Transportation

- Clean the device thoroughly before storage, ensuring it is free of moisture and dust.
- Make sure that the batteries are removed and that the battery compartment is empty.
- It is possible for the device to be stored for short periods in a suitable soft pack, bag, or cartridge box.
- Store the device in a dry, enclosed, unheated, and ventilated space for long-term storage.
- Avoid exposing the product to aggressive environments, temperatures below  $-50^{\circ}\text{C}$  or above  $+60^{\circ}\text{C}$ , relative humidity over 80%, or prolonged periods of direct sunlight.
- Before transportation, neatly pack the product in its original packaging (transport bag), ensuring all items and accessories are carefully placed in the bag. Then, securely place the bag in the transport suitcase.
- The device can be shipped via various transport methods, up to an altitude of 12.000 m.

# Specification

Lipot Specification			
Model	Lipot 325LRF	Lipot 335LRF	Lipot 635LRF
Main Characteristics			
Detector	Uncooled Vox		
Resolution	384x288		640x512
Frame rate	50HZ		
Pixel	12 $\mu$ m		
Spectral range	8-14 $\mu$ m		
NETD	<15mK		
Optical Characteristics			
Objective lens	25mm	35mm	35mm
Magnification	2.5 $\times$	3.5 $\times$	2 $\times$
FOV (H $\times$ V),m@100m	18.4 $\times$ 13.8	13 $\times$ 9.9	21.9 $\times$ 17.5
Functions			
Zoom	2.5 $\times$ -10 $\times$	3.5 $\times$ -14 $\times$	2 $\times$ -16 $\times$
AI focus	Yes		
Palettes	Multiple		
Firmware update via APP	Yes		
Display			
Type	0.49 inch OLED		
Resolution	1920 $\times$ 1080		
External video	WIFI		

Lipot Specification			
Model	Lipot 325LRF	Lipot 335LRF	Lipot 635LRF
Power supply			
Battery	1x18650		
External power supply	5V USB-C		
Operating time (at t=22°C)	6h		
Physical Characteristics			
Weight	300g		
Dimension	140×45×74mm		
Environmental Compatibility			
Ingress protection rating	IP67		
Operating temperature	-20°C ~ +50°C		
Storage temperature	-40°C ~ +70°C		
Laser rangefinder			
Safety class for laser equipment according to IEC 60825-1:2014	1		
Measuring range	5-1200m		
Measurement accuracy	±1m		



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