CONOTECH

LIPOT

THERMAL IMAGING MONOCULAR
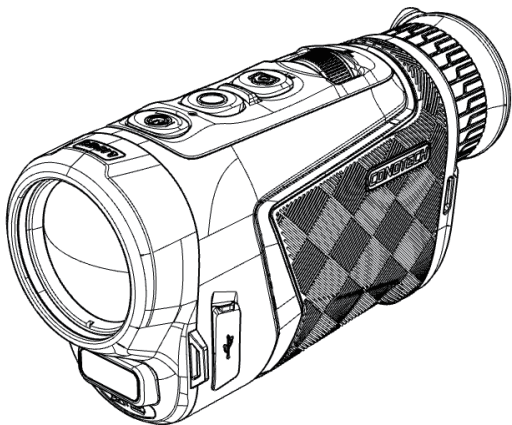
INSTRUCTION MANUAL

RoHS CE

Content

⚠️ **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.

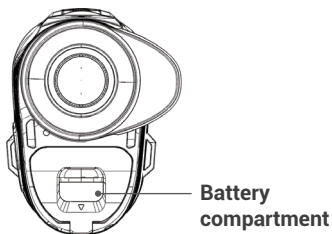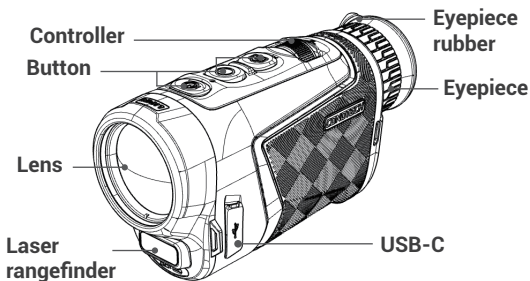| ⚠	**Remove batteries and store them in polyethylene bags to avoid contact with metal if the device will be stored for an extended period.**
⚠	**Use the protective lens cap during transportation or storage.**
⚠	**Condensation may fog the optical surfaces. This occurs when the device transitions between 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

Controller

Button

Lens

Laser
rangefinder

Eyepiece
rubber

Eyepiece

USB-C

Battery
compartment

⚠ **NOTE** All images used in this instruction manual are for illustrative purpose only. Actual product may vary due to product enhancement. (V.1.0)

Controls
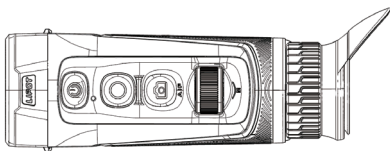
	Short press: Standby **Long press:** Turn on/off
	Short press: Enter LRF measurement **Long press:** AI Focus
	Short press: Take photos **Long press:** Video recording
	Short press: NUC

	Short press: Enter/Exit quick menu
	Long press: Enter/Exit main menu
	Rotate: Zoom in/Out

Photography

Short press the 📷 to capture a photo.

```
              ·  W  ·  N  ·  E  ·
                   300°


                                        ≫



《《 -10° 》》                              -10°
                                        ≪


                   Photo Saved!

  WH    🌙   Ⓐ   ⟦⟧   ∠   3.8x    🎤  📶   12:30 AM  🔋
```
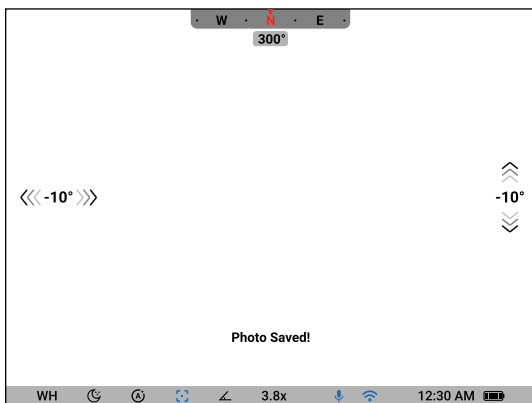
All photos are stored in the device's built-in memory.

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).

W · N · E ·
300°

《《 -10° 》》

≫
-10°
≫

Video Saved!

WH   ☾   ⓐ   ⟦⟧   ∠   3.8x   🎤   📶   12:30 AM   🔋
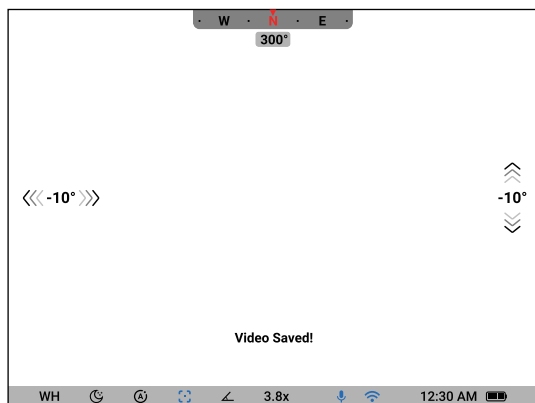
Long press the 📷 again to stop and save the recording. All videos are stored in the device's built-in memory.

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

⚠️ NOTE	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 single measurement, then distance will be shown on the screen.
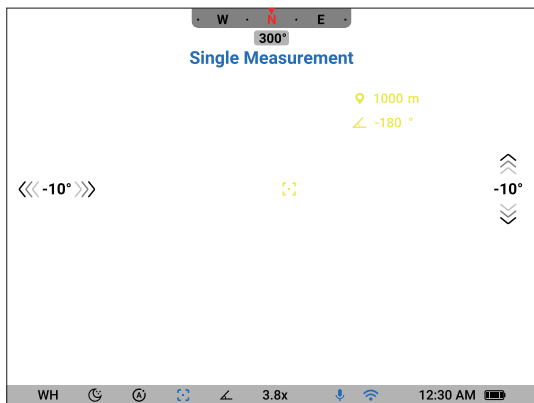
Long press ⭕ to enter continues measurement. Aim to the target, then the relevant distance will show up.
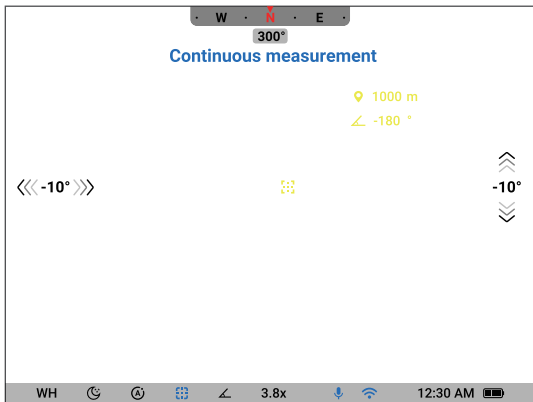
Single measurement

Continuous measurement

⚠️ NOTE	If the Show Angle feature is turned on, then theangle will be displayed on the screen alongsidethe distance.

```
        ·  W  ·  N  ·  E  ·
              300°


                                              ⫸
⟨⟨⟨ -10° ⟩⟩⟩                            -10°
                                              ⫷

WH    ☾    ⒶⒶ    ⛶    ∠    3.8x    🎤  📶    12:30 AM  🔋
```
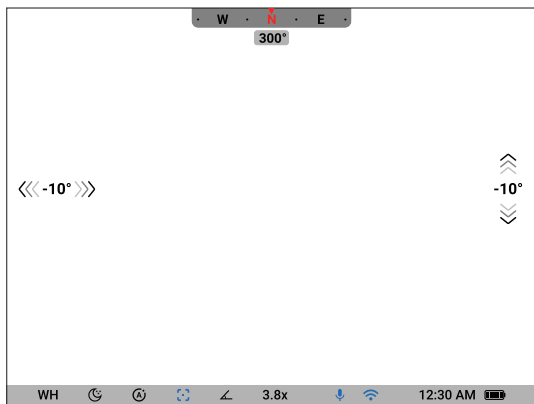
The status icons are respectively located on the display and show information on the actual operating status of the device, including:

- 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.
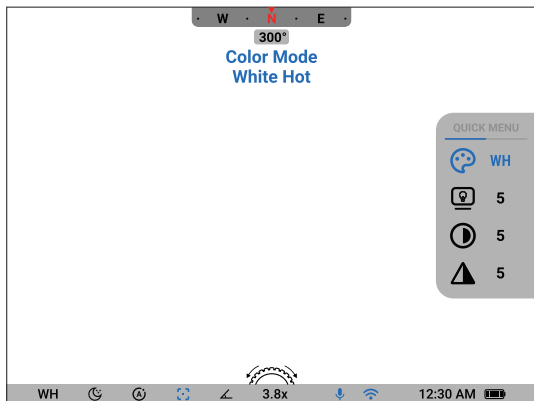
🎨 Color Mode

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

Rotate the ⟳ to turn on/off PIP, long press the ⬇ to save and exit.

WIFI

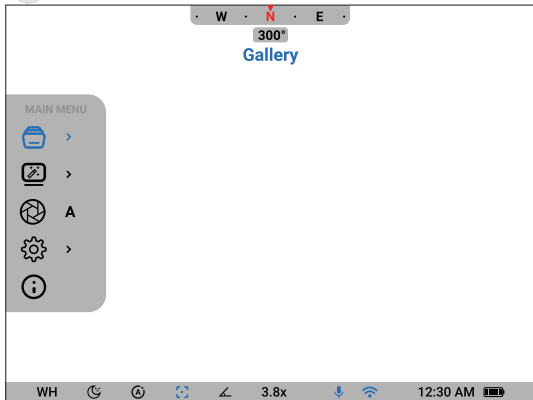Rotate the ⟳ to turn on/off WIFI, long press the ⬇ to save and exit. The WIFI password is 12345678.

Hot tracking

Rotate 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.
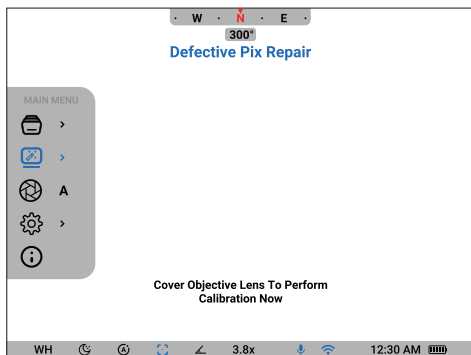

🔘 Gallery

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.

W · Ñ · E
300°
Defective Pix Repair

MAIN MENU

A

Cover Objective Lens To Perform
Calibration Now

WH   ☾   Ⓐ   ⌖   ∠   3.8x   🎤   📶   12:30 AM 🔋

Calibration Mode

Short press ⬤ , then rotate to select the A, M, S. Short press ⬤ to save and exit.
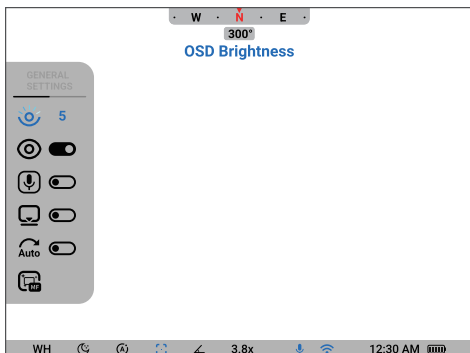
A Automatic   **M** Manual   **S** Silent

⚙️ General Settings

👁️ OSD Brightness

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

◎ Extreme Mode

Short press the ⬇️ to enter Extreme Mode, rotate the ↩️ to turn on/off.

🎤 Microphone

Short press the ⬇️ to enter Microphone, rotate the ↩️ to turn on/off.
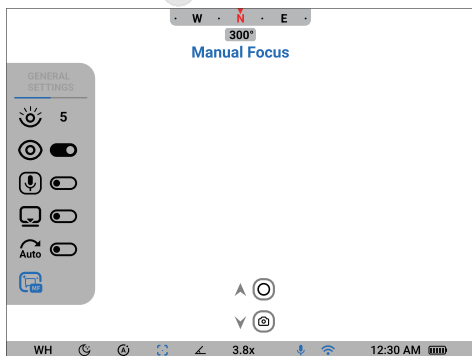
⬚ Pure Mode

Short press the ⬇ to enter Pure Mode, rotate the ↻ to turn on/off.

⟳ Auto Standby

Short press the ⬇ to enter Auto Standby, rotate the ↻ to turn on/off.

⬚ Manual Focus

Short press the ⬇ to enter manual focus.

Short press ◯ / 📷 to move backward / forward a step.

Long press ◯ / 📷 to move continuous backward / forward.

⊘ Compass Settings

Short press the ⟱ to enter Compass Settings,

rotate the ⟲ to turn on/off.
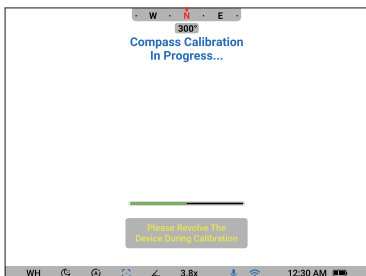
⊙ Measurement Settings

Short press the ⟱ to enter Measurement

Settings, rotate the ⟱ to turn on/off. Rotate

the ⟲ to Unit settings, Short press the ⟱

to select Meter or Yard.
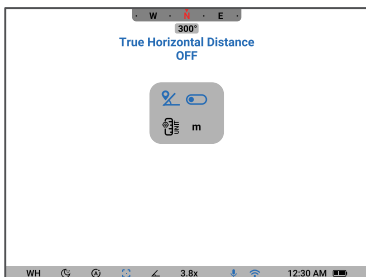
⏱ Time/Date

Short press the ⬇ to enter Time/Date, rotate

the 🔄 to select the Time/Date value.
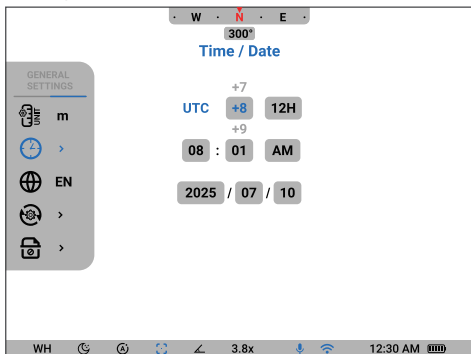
⊕ Language Settings

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, 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
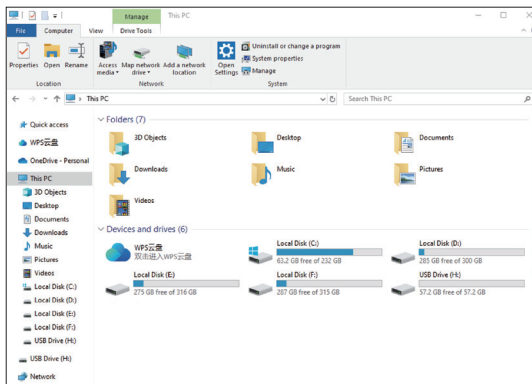
Click to the Driver.
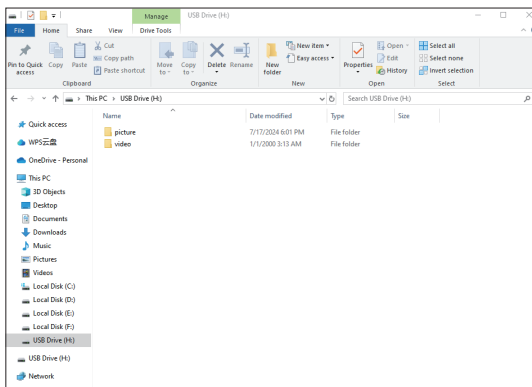
Removable battery

Please install the battery based on the positive and negative signs.
Replace the battery and close the compartment knob.
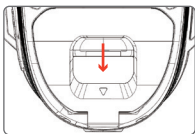
Open   Close
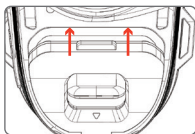
External power supply

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°C or above +60°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 215	Lipot 325LRF	Lipot 335LRF	Lipot 635LRF
Main Characteristics				
Detector	Uncooled Vox			
Resolution	256x192	384x288		640x512
Frame rate	50HZ			
Pixel	12μm			
Spectral range	8-14μm			
NETD	<25mK	<15mK		
Optical Characteristics				
Objective lens	15mm	25mm	35mm	35mm
Magnification	1.8×	2.5×	3.5×	2×
FOV (H×V),m@100m	20.5×15.4	18.4×13.8	13×9.9	21.9×17.5
Functions				
Zoom	1.8×-7.2×	2.5×-10×	3.5×-14×	2×-16×
AI focus	Yes			
Palettes	Mutiple			
Firmware update via APP	Yes			
Display				
Type	0.32 inch OLED	0.49 inch OLED		
Resolution	800×600	1920×1080		
External video	WIFI			

Lipot Specification				
Model	Lipot 215	Lipot 325LRF	Lipot 335LRF	Lipot 635LRF
Power supply				
Battery	1x18650			
External power supply	5V USB-C			
Operating time (at t=22°C)	8h	6h		
Physical Characteristics				
Weight	280g	300g		
Dimension	140×45×74mm			
Environmental Compatibility				
Ingress protection rating	IP67			
Operating temperature	-20℃ ~ +50℃			
Storage temperature	-40℃ ~ +70℃			
Laser rangefinder				
Safety class for laser equipment according to IEC 60825-1:2014	/	1		
Measuring range	/	5-1200m		
Measurement accuracy	/	±1m		

CONOTECH