

# TRACERLRF 35-50LRF Thermal Imaging Scope With Laser Range Finder Instruction Manual

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Manual □

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TRACERLRF 35-50LRF Thermal Imaging Scope With Laser Range Finder



#### **FAQs**

- Q: Can I disassemble the device for maintenance?
  - A: Disassembling of the device is prohibited; contact authorized repair centers for maintenance.
- Q: How can I prevent condensation on the optical surfaces?
  - A: Avoid sudden temperature or humidity changes to prevent condensation; use a protective lens cap when carrying or transporting the device.
- · Q: How do I clean the lens surfaces?
  - A: Clean the lens surfaces with a Lens Cloth or a napkin to maintain optical clarity.

#### SAFETY INFORMATION

#### **ATTENTION!**

- The proper usage of the device is important for safe exploitation! Therefore read carefully the present manual!
- If the device was left in storage for a longer period of time, before exploitation check its functionality.
- Disassembling the device is prohibited, except in authorized repair centers.
- The external optical surfaces should be clean at all times. Touching the optical surfaces with bare hands is not recommended.
- Sand and seawater can damage the optical coatings!
- Do not point the device directly at the sun!
- Image performance is dependent on scenery and atmosphere conditions. Contrast in the same image may
  vary as a function of the time of day due to the effect of the sun. For example, at sunset objects will have
  absorbed different levels of heat resulting in greater temperature differences and better contrast.
- When left in storage for a longer period of time, batteries have to be removed and stored in polyethylene bags to prevent contact with metal. (It is recommended to recharge the batteries every two to three months)
- When carrying or transporting the device, put the protective lens cap!
- Condensation can cause fogging of the optical surfaces! Condensation occurs when the temperature or humidity changes as follows:
  - When moving the device from a cold to a warm place or vice versa;
  - In places with high humidity.

- When equalizing the temperature of the device with the environment, the condensation disappears. Use the towel to remove moisture
- Clean the lens surfaces with the Lens Cloth or with the napkin!

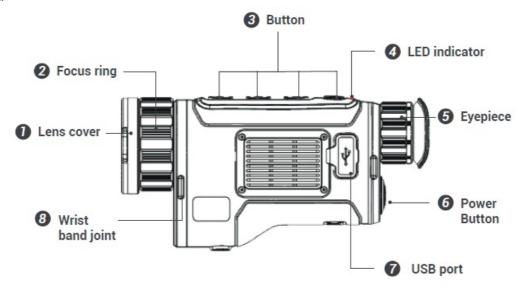
#### **LEGAL NOTICE**

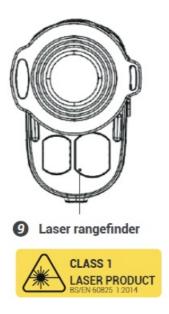
Before attaching to weapons, check the regional legal regulations in the area of application. The attachment to a weapon is always the sole responsibility of the user.

#### **APPEARANCE**

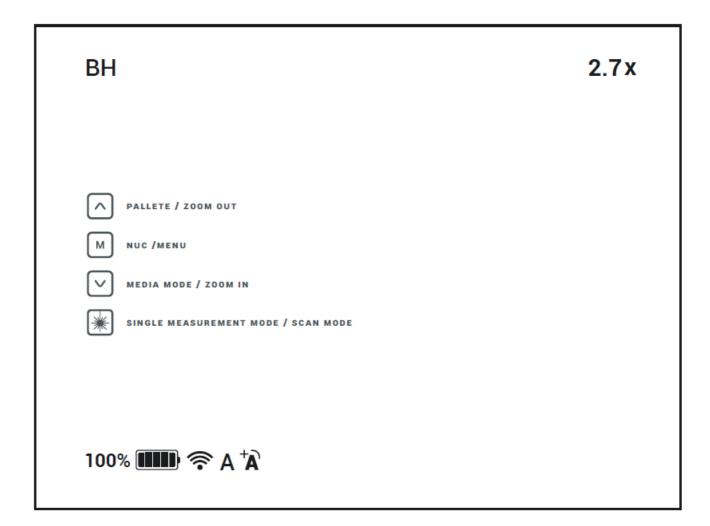
#### **NOTE**

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



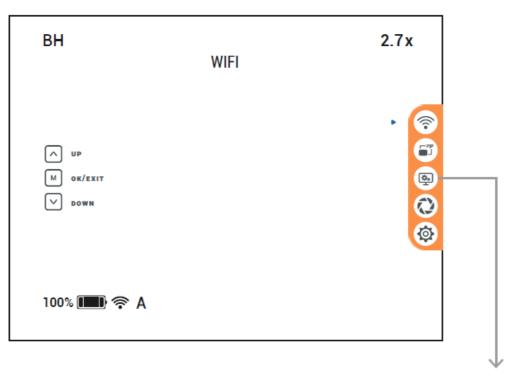


#### **STATUS DISPLAY**



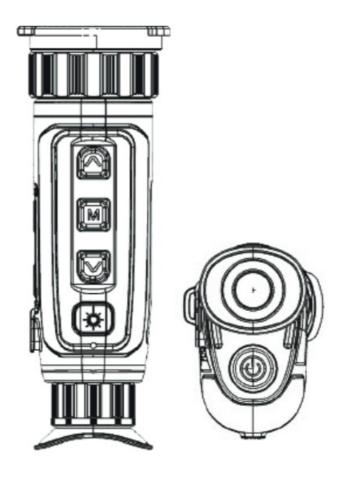
The status display shows information on the actual operating status of the device including:

- Palette (RB, CG, GB, RH, WH, BH)
- Zoom (35—10.8X, 50—15.6X, 25Pro —9.6X, 35Pro —13.2X)
- Help menu
- Battery capacity
- Wifi
- Display modes (A-D)
- NUC mode



Main menu settings icon

### **BUTTON**



	Quick menu		Main menu	
	Short press	Long press	Short press	Long press
^	Palette	Zoom -	Up	,
М	NUC	Enter menu / Exit menu / Confirm settings	Enter menu / Exit menu/Save	/
~	Media mode	Zoom +	Down	,
*	Singe measurement	Scan mode switching	/	,
0	Stand-by	Turn on / Turn off	Stand-by	Turn on / Turn off
* M	/	Adjust Brightness	/	,
<b>+</b> M	/	Adjust Contrast	/	/

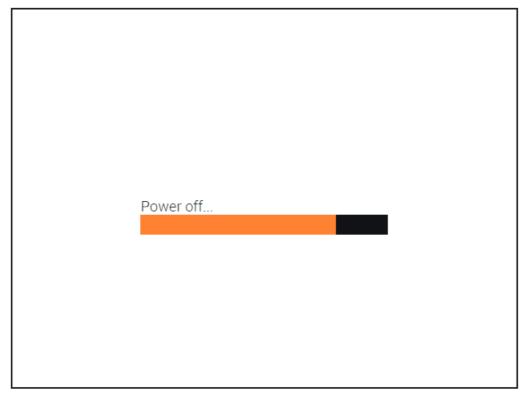
### Start up image

• Long press of button for 3 second to power on device.



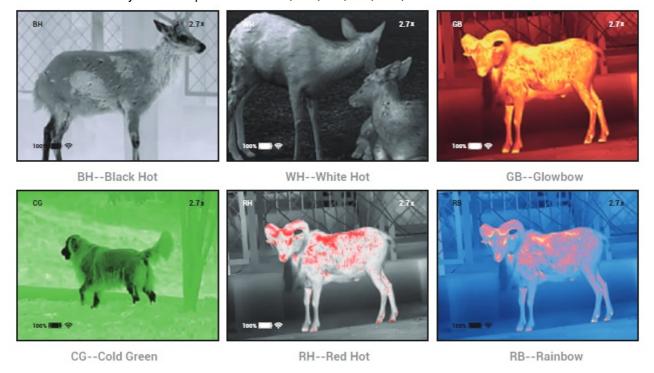
### Power off image

Long press of button for 3 seconds to power off device

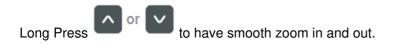


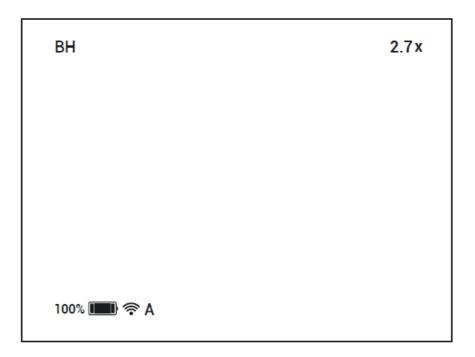
#### **Palette**

Press button shortly to switch palette from RB, CG, CB, RH, WH, BH.



#### Zoom





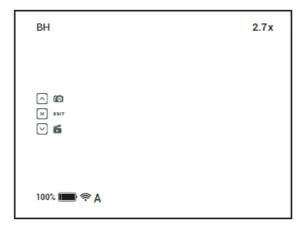
- Tracer 35LRF has magnification from 2.7~10.8X.
- Tracer 50LRF has magnification from 3.9~15.6X.
- Tracer 25LRF Pro has magnification from 2.4~9.6X.
- Tracer 35LRF Pro has magnification from 3.3~13.2X

#### NUC

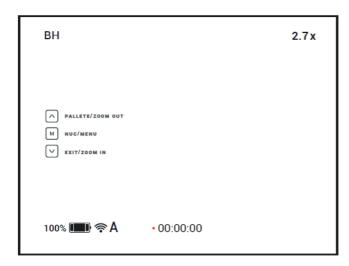
• Short press button to act non-uniforming calibration.

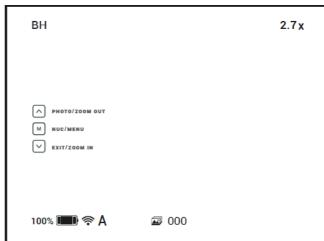
#### Take photo/video on board

• Short press button, to have a multimedia menu display.



- Short press button, to take a photo, number of photos will be shown on bottom screen.
- Short press button, to start/end video recording, recording icon will be shown on bottom screen.
- Press button to exit Media mode.





#### Please note the following before using:

- When you take photos, do not press too quickly, always wait until 001 disappears before you take 002.
- Please avoid taking photo or videos when device connects with PC. Or else photos or videos are not saved properly.

#### Take photo by CONOTECH

 User can take photo/video by CONOTECH App. Replay on Smart phone. To get started, install the free CONOTECH App on your mobile device. you can search and download at App Store and GooglePlay















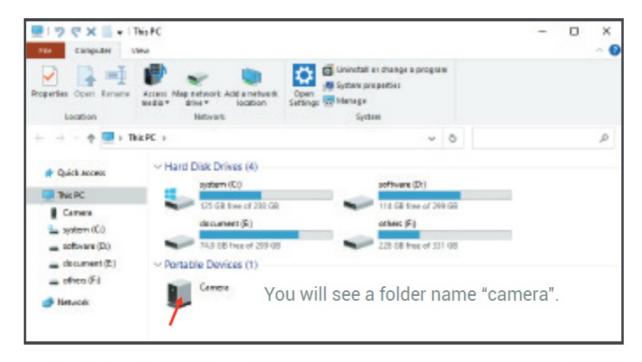


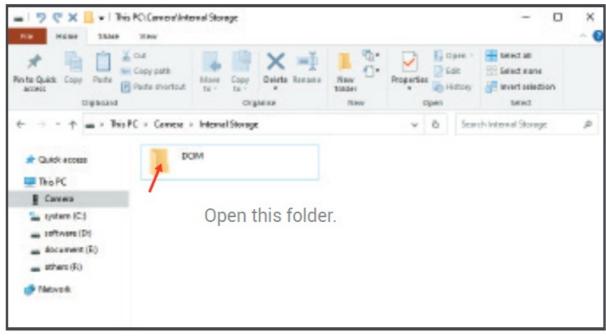




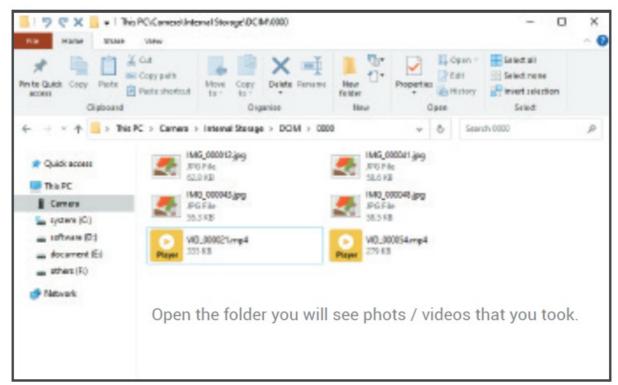
### How to replay on PC?

- 1. Connect the Type-C usb cable to PC.
- 2. Turn on WIFI and wait 10s.



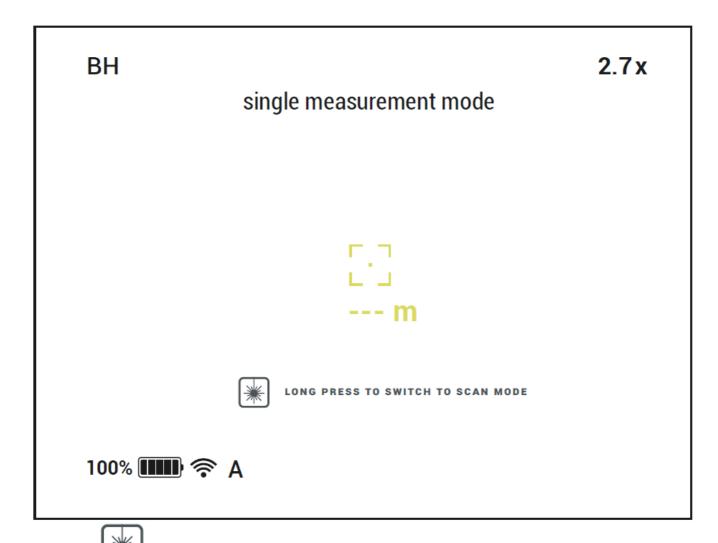




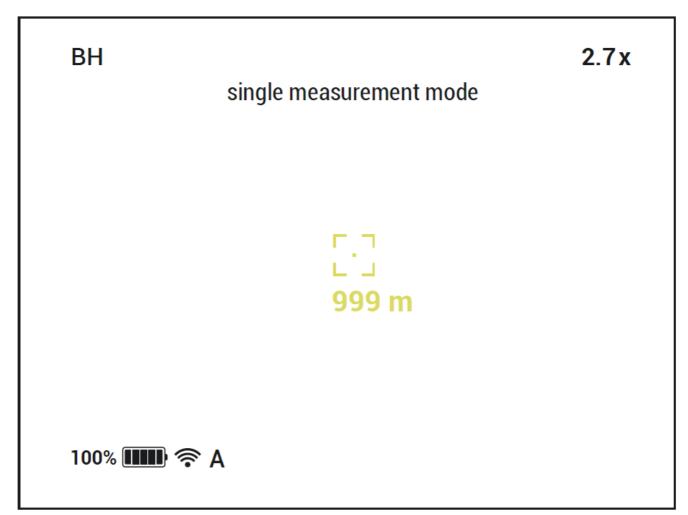


#### Laser rangefinder

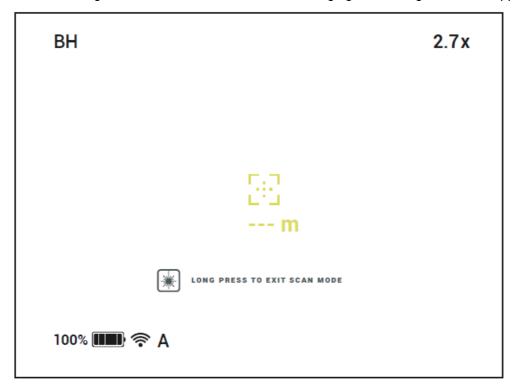
• Short press the button, the ranging box and distance appear.



Short press the button to have range measured once and displayed.



- The distance is displayed for 5 seconds then disappears.
- Long press button to start the scan mode, and the scan mode ranging box and distance appear in the real-time image.
- Long press button again to turn off the scan mode. The ranging box and figures will disappear together.



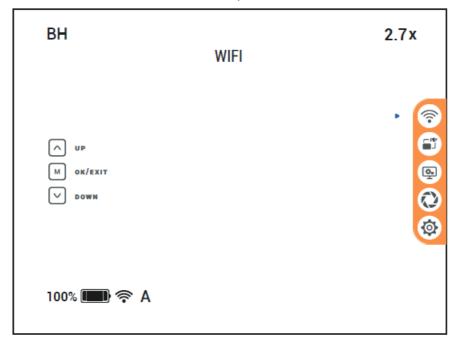
#### **OPERATING FEATURES**

- The accuracy and distance of the measurement depends on the reflection coefficient of the object surface and weather conditions. The reflection coefficient depends on the texture, color, size and shape of the object.
   Generally, lighter-colored objects and those with a shiny surface will have a higher reflection coefficient.
- 2. Measurement accuracy can be influenced by the light conditions, fog, haze, rain, snow, etc. The results may be less accurate when operating in sunny weather or if the rangefinder is directed toward the sun.
- 3. It is easier and more reliable to measure the distance to large objects than to small ones.
- 4. The distance of measurement is able to displayed on your mobile device by CONOTECH App.

#### **MAIN MENU**

#### **NOTE**

- When under real time image,long press the M Button to Enter /Exit the main menu.
- Press the M Button to enter Sub-menu/Save.
- Press the Up/Down Button to select between the menu options.





- · Find Wi-Fi icon from Main menu
- Press button to choose then press button to turn ON/OFF Wi-Fi.
- Wi-Fi status is shown in the display, means Wi-Fi is off, means Wi-Fi is on.





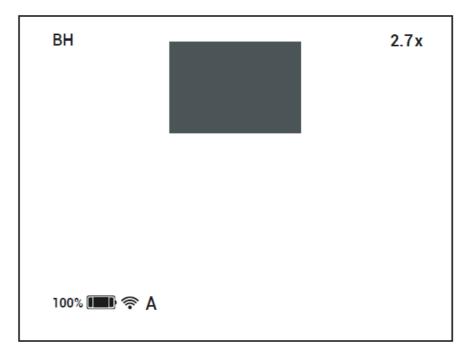


Enter password: 12345678

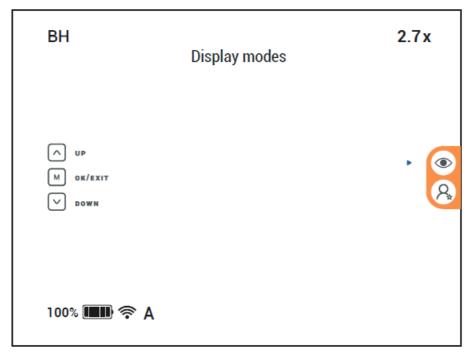
After wait for 10s



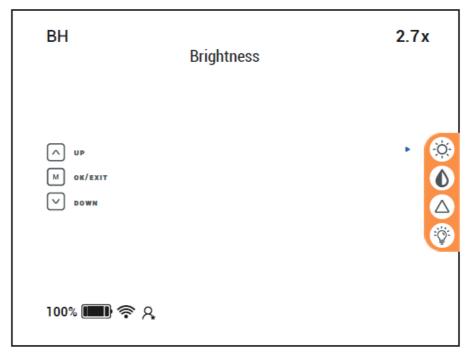
• Press the or button then press button to turn PIP Mode ON / Off.



Display setting



- Display modes:
  - A Normal
  - B Booster
- . User mode





- Press the buttons to change image brightness from 1~5.
- You can also enter Brightness adjustment by long press both and buttons in the real image.

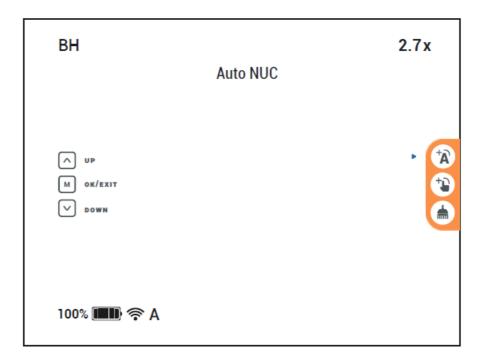
### . O Contrast

- Press the buttons to change display contrast from 1~5.
- You can also enter Contrast adjustment by long press both and buttons in the real image.

### . Sharpness

- Press the or buttons to change sharpness from 1~5.
- OLED Brightness
- Press the buttons to change OLED brightness from 1~5.





### Auto NUC

- Press the button then press button to turn Automatic Calibration ON/ Off
- In the Automatic Calibration mode, The device is calibrated autonomously according to firmware algorithms.
- There is no need to close the lens cover.

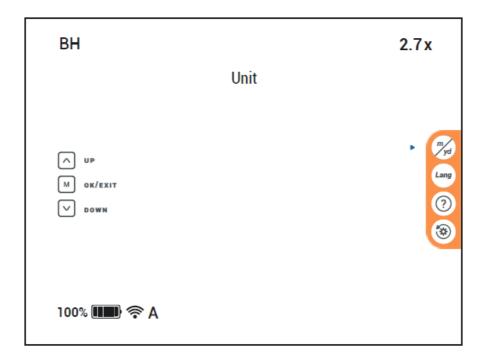
## Manual Calibration

• Press buttons, prompt to close the lens cover, and complete after counting down 3-2-1.

## Defective Pixel Repair

- Press buttons, prompt to close the lens cover, and complete after counting down 3-2-1.
- Defective pixels are found by software algorithms.







• Press or to select units of measurement from Yards and Meters, then press button to confirm.

## Language

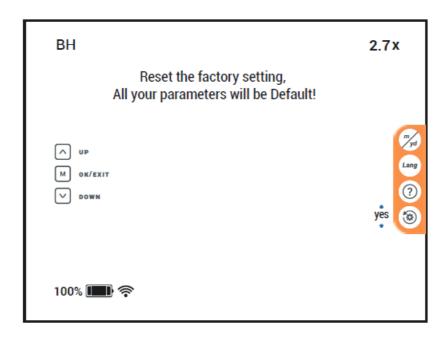
• Press or to select language, then press button to confirm.

### **1**Help

Press the or button then press button to turn help ON / Off.

## Reset the factory setting

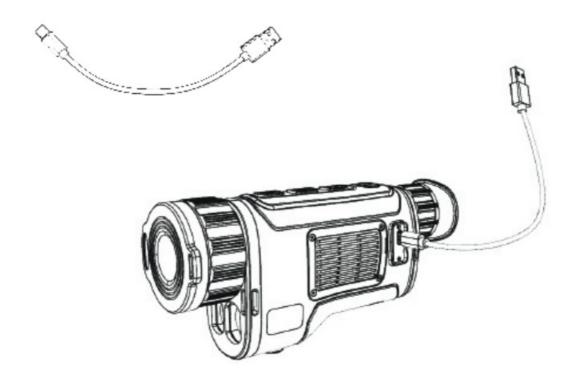
Press or buttons to Restore Default Setting.(All your parameters will be default)



#### **CHARGING AND FIRMWARE UPDATE**

The Tracer LRE series comes with a built-in rechargeable Lithium-ion battery. Before first use, make sure the battery is fully charged.

#### Power supply / Firmware update



- When charging the LED light will be in red color.
- When the battery is fully charged LED light will be in green color.

#### **Attention**

It is not recommended to use when charging, which will shorten the battery life. Charging batteries from an external source at temperatures below 0°C can reduce battery life. When using external power, connect the Power Bank to the device only after thas been turned on and working for at least several minutes.

#### STORAGE AND TRANSPORTATION

- Before storing it, clean the device (if on its surface there are moisture, dust or traces of dirt)!
- Make sure that there are no traces of moisture, and the battery compartment is empty!
- It is also possible for a short period of time device to be stored in a suitable soft pack, bag or cartridge box.
- The premises in which the device is kept for long term have to be dry, enclosed, unheated and ventilated.
- During the storage should not be allowed exposure to aggressive environments, temperatures below -50°C and above +60°C, relative humidity greater than 80%, and prolonged periods of direct sunlight.
- Before each transportation, the product should be neatly packed in its original packaging (transport bag) and all
  other items and accessories should be carefully and steadily placed in the bag. After that the bag should be
  steadily placed in the transport suitcase.
- You can ship the product with all types of transport at different distances and at altitudes up to 12 000 m.

#### **Technical Data Sheet**

Technical Data Sheet					
	Tracer 35LRF	Tracer 50LRF	Tracer 25LRF Pro	Tracer 35LRF Pro	
Detector					
Туре	Uncooled Vox		Uncooled Vox		
Resolution	384×288		384×288		
Frame rate	50Hz		50Hz		
Pitch	17µm		12µm		
Spectral range	8-14µm		8-14µm		
NETD	30mk		30mk		
Optical Characteristics					
Objective lens	35mm	50mm	25mm	35mm	
Magnification	2.7x	3.9 x	2.4X	3.3X	
FOV	10.6°×8.0°	7.4°×5.6°	10.6° X 7.9°	7.5°×5.7°	
Close-up range	5m		5m		
Dioptre adjustment	-5D-4D		-5D-4D		
Functions					

Zoom	1X/2X/4X		1X/2X/4X	
Palette	6 optional(can be customized)		6 optional(can be customized)	
Start up time	Less than 5 seconds		Less than 5 seconds	
Image enhancement	DDE		DDE	
Contrast and brightness	AGC		AGC	
Online update	Both code and GUI resources		Both code and GUI resources	
Display			,	
Туре	OLED		OLED	
Resolution	1024×768		1024×768	
Power Supply				
Battery	Built-in lithium battery		Built-in lithium battery	
External power supply	5V Type-C		5V Type-C	
Battery life	8h+		8h+	
Physical Characteristics				
Weight without battery	540g	590g	530g	540g
Size	155x50x92mm	165x56x92mm	153X50X92mm	155x50x92mm
Physical Characteristics				
Water proof	IP67		IP67	
Operating temperature	-20°C-50°C		-20°C-50°C	
Storage temperature	-40°C-60°C		-40°C-60°C	
Physical Characteristics				
Safety class for laser equi pment according to IEC 60 825-1:2014	1		1	
Measuring range	5-1000m		5-1000m	

Measurement accuracy	±1m	±1m

#### **CONTACT INFORMATION**

- Hubei CONO Technology Co., Ltd
- Tel/ Fax:0086-27-87137247
- Email: Support@cono-tech.com
- www.cono-tech.com

#### **Documents / Resources**



TRACERLRF 35-50LRF Thermal Imaging Scope With Laser Range Finder [pdf] Instruction Manual

35-50LRF, 25-35LRF Pro, 35-50LRF Thermal Imaging Scope With Laser Range Finder, 35-50L RF, Thermal Imaging Scope With Laser Range Finder, Imaging Scope With Laser Range Finder, With Laser Range Finder, Laser Range Finder, Range Finder, Finder

#### References

• User Manual

Manuals+, Privacy Policy

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