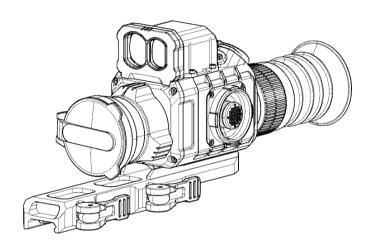


POLARIS



Attention!

Export of **Polaris Serise** models May have export limitations depending on the laws in your region.





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 funtionality.



Disassembling of 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 sea water 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 cold to warm place or vice versa;

· In places with high humidity.

When equalizing the temperature of the device with the environmental, the condensation disappears. Use the towel to remove moistu

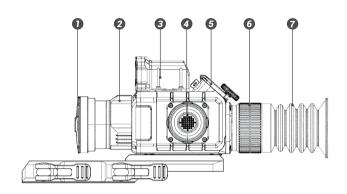


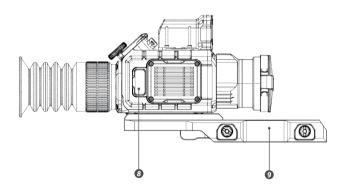
Clean the lens surfaces with the Lens Cloth or with the napkin!



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.





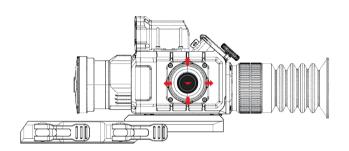


All images used in this instruction manual are for illustrative purpose only. Actual product may vary due to product enhancement.

- Lens cover
- 2 Focus ring
- 3 Laser rangefinder (RL models only)
- OneTouch Button
- Battery compartment cap
- 6 Eyepiece
- Eyepiece rubber
- S USB
- 9 Picatinny rail

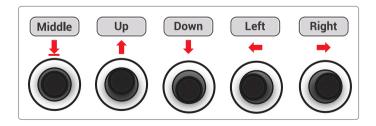


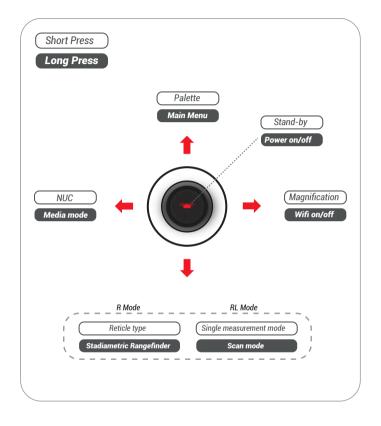
The main operations are performed through the "OneTouch Button" (${\bf 5}$ position button) .

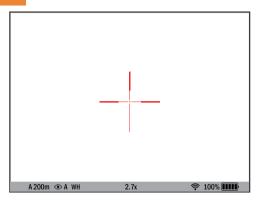




Turn off the device after usage, otherwise you can permanently damage the batteries!

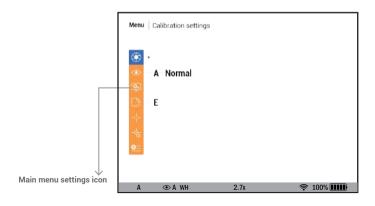






The status bar is located in the lower part of the display and shows information on the actual operating status of the sight, including:

- Zeroing profile A/B/C/D/E
- Distance display
- Display mode(A-B-C-D)
- Color palette
- Magnification
- WIFI status
- Battery capacity





Palette

Short press Up Button to switch palette from C1~C6.



```
C1---White Hot---WH
                         C4---Cold Green---CG
C2---Black Hot---BH
                         C5---Glowbow---GB
C3---Rainbow---RB
                         C6---Warm White---WW
```

Main Menu

Long Press Up Button to enter/exit Main menu.

R Mode



Reticle type Short press **Down** Button to switch the Reticle type.







RI Mode

Single measurement mode

Short press Down Button to enter Single measurement mode.

Long Press **Down** Button to enter/exit Stadiametric rangefinder mode.

Scan mode

Long Press Down Button to enter/exit Scan mode.





NUC

Short press Left Button to do Non-Uniformity Calibration.



Media mode

Long press Left Button to enter/exit Media mode.



Magnification/PIP



Short press Right Button to switch Magnification, PIP.



Long press Right Button to turn on/off Wifi.



Stand By

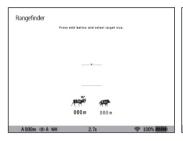


Power On / Off

Long Press Middle Button to power on /off the device.

Stadiametric Rangefinder

Polaris R models are equipped with a stadiametric rangefinder which allows the user to estimate approximate distance to an object of known size.





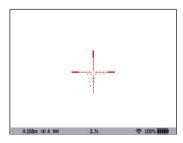
You will see on the display: measurement bars, icons of two reference objects and respective distances for the two objects.

There are two pre-set reference objects: Wild boar-height 0.5m

Deer-height 1.5m

The lower fixed bar under the object automatically appear on display, press the Up/Down buttons to move the upper horizontal bar until the object fits entirely between the two lines. The distance to the object is automatically recalculated as you move the upper line. Press Left/Right buttons to choose reference object, press Middle button to save & exit RF mode , range information will not disappear from display automatically.

Distance to the object displays in status bar and a " + " on reticle suggests the aiming point accordingly.

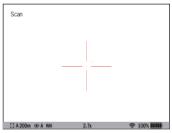


Laser Rangefinder (RL models only)

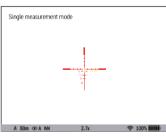
When under real time image mode, Short press **Down** Button to enter Single measurement mode. Aim \mathbb{N}_{2} to the target, then short press **Down** Button, the corresponding distance of target will appears on display.



When under real time image mode, Long press **Down** Button to enter/exit scan mode. Aim $\frac{1}{100}$ to the target, the corresponding distance of target will appearson display.



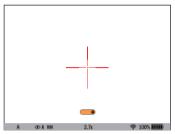
Distance to the object displays in status bar and a " + " on reticle suggests the aiming point accordingly.



Note:When under Scan mode, " 🕇 "only can be displayed after you quit the Scan mode. And the calculation is based on the distance of your last measurement.

WIFI

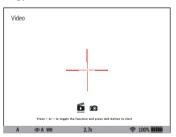
Long press Right Button to turn on/off Wifi.

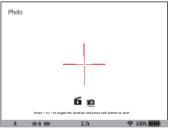




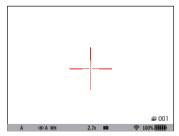
Media mode

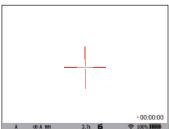
Long press Left Button to enter/exit Media mode.





Recording icon or number of photo will be shown on the lower screen.





When Recording, Short press **Middle** Button to pause, short press **Middle** Button again to continue recording.

Long press Left Button to exit Video and Photo function.

Please note the following before using:

When you take photos, do not press too quickly, always wait until 001 disappears before you take 002.

You can not take photos/videos while connecting with PC.Otherwise the photos/videos are not actually saved.

Take photo by CONOTECH

User can take photo / video on board or 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.



CONOTECH





App Store

Long press Right Button to turn on WIFI.







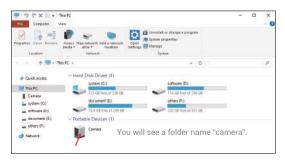


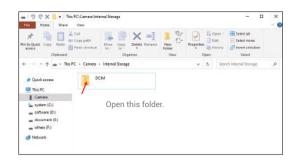
After wait for 10s



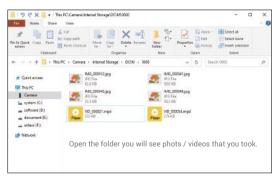
How to replay on PC?

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





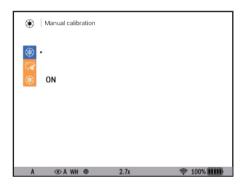






When under real time image,long press the Up Button to entre the main menu. When under main menu,long press the Up Button to return to previous menu. Press the Up/Down Button to select between the menu options. Press the Left/Riight Button to change the setting.

© Calibration Setting



Manual Calibration

Press Left/Right Button, prompt to close the lens cover, and complete after counting down 3-2-1.

Defective Pixel Repair

Press Left/Right Button, prompt to close the lens cover, and complete after counting down 3-2-1.

Auto NUC

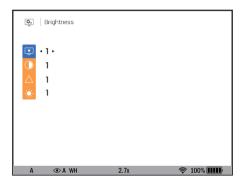
Press Left/Right Button to turn Auto NUC On / Off.

Display modes

Press Left/Right Button to switch display modes.

- A ··· Normal
- R... Rooster
- C ··· Enhance
- D ··· User mode

Display setting



OLED brightness

Press Left/Right Button to change OLED brightness from 1~5.



Press Left/Right Button to change Contrast from 1~5.



Press Left/Right Button to change Sharpness from 1~5.

- Brightness

Press Left/Right Button to change image Brightness from 1~5.

Note: When under A/B/C display mode, you can only adjust the OLED brightness.

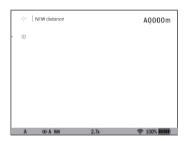


Various profiles can be used when employing the sight on different rifles and when shooting different cartridges. Select one of the zeroing profiles (shown with letters A;B;C;D;E) with short press Left/Right button.



To zero your weapon, you need to set a zeroing distance first.

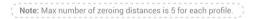
New distance



Press Left/Right Button and you will see AQ000m , set the value for each digit with Press Up/Down Button, switch between the digits with a short press of Left/Right Button.

Press Middle Button to save the new distance.

1033 Wildlie Dutton to save the new distance.



Distance

Press Up/Down Button to select the zeroing distance.



Zeroing parameters settings

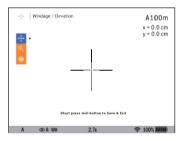
Press Left/Right Button to zeroing parameters settings.



→ Windage /Elevation

Take a shoot, move Up/Down/Left/Right Button to make cross center of reticle at point of impact. X,Y will show the distance value you move.

Short press Middle Button to Save & Exit.



Magnification

Magnification allows you to use a digital zoom of the riflescope when zeroing, which reduces the minute of angle click for zeroing accuracy improving. Press Left/Right Button to change the magnification.



Freeze

The feature of the freeze function is that there is no need to constantly keep the riflescope at the point of aiming.

After shooting, the user needs to align the dividing center point with the center of the cross target, and then press **Left/Right** Button to freeze the infrared image of the current frame, as shown in the following figure.

Press Left/Right Button to unfreeze again to resume normal display of the infrared image.

When freezing the image, you can press **Up/Down** Button to adjust other options in the zero calibration.

Change primary distance

Press Left/Right Button to change primary distance.

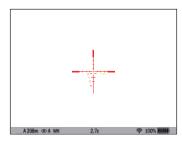


Delete distance

Press Left/Right Button to delete distance.

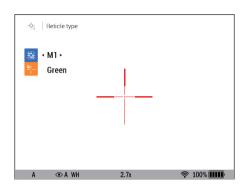


When zeroing is finished, the hundred digits of the distance you set will be displayed on the reticle.





Reticle settings

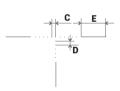




Reticle type

Press Left/Right Button to select the reticle type.





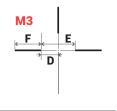


Reticle	MOA/cm@100m					
parameters	384(35mm)	384(50mm)	640(35mm)	640(50mm)		
Section A	1.2/4.8	1.2/3.4	1.6/4.6	1.1/3.2		
Section B	1.2/4.8	1.2/3.4	1.6/4.6	1.1/3.2		
Section C	5.8/24	5.8/17	8/23	5.5/16		
Section D	5.8/24	5.8/17	8/23	5.5/16		
Section E	37.7/156	37.7/110.5	52/119.6	35.75/104		



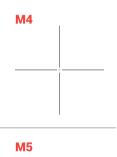


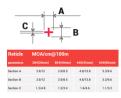
Reticle	MOA/cm@100m						
parametera	384(35mm)	384(50mm)	640(35mm)	640(50mm)			
Section A	2.9/12	2.9/8.5	4.8/13.8	3.3/9.6			
Section B	2.9/12	2.9/8.5	4.8/13.8	3.3/9.6			
Section C	1.2/4.8	1.2/3.4	1.6/4.6	1.1/3.2			
Section D	6.38/26.4	6.38/18.7	6.4/18.4	4.4/12.8			
Section E	11.6/48	11.6/48	16/46	11/32			
Section F	4.05/16.8	4.06/11.9	6.4/18.4	4.4/12.8			
Section G	26.68/110.4	26.68/78.2	36.8/105.8	25.3/73.6			





Reticle	MOA/cm@100m						
porameters	384(35mm)	384(50mm)	640[35mm)	640(50mm)			
Section A	2.9/12	2.9/8.5	4.8/13.8	3.3/9.6			
Section B	2.9/12	2.9/8.5	4.8/13.8	3.3/9.6			
Section C	1.2/4.8	1.2/3.4	1.6/4.6	1.1/3.2			
Section D	29/120	29/85	40/115	27.5/180			
Section E	58/240	58/170	80/230	55/160			
Continue E	46 11/10 09	46 11/196 16	64/194	44/129			





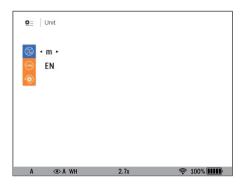


Reticle	MOA/cm@100m					
parameters	384(35mm)	384(50mm)	640(35mm)	640(50mm)		
Section A	1.2/4.8	1.2/3.4	1.6/4.6	1.1/3.2		
Section B	1.2/4.8	1.2/3.4	1.6/4.6	1.1/3.2		

♣.|- Reticle Colour

Press $\mathbf{Left/Right}$ Button to select the desired reticle colour: black, white,red and green.

System settings



W Unit

Press Left/Right Button to select units of measurement from Yards and Meters.

(Language

Press Left/Right Button to select language and press Middle Button to save.

Restore Default Setting

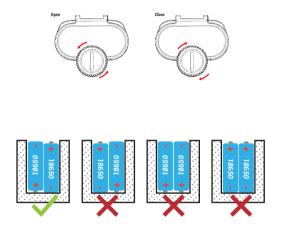
Press Left/Right Button to Restore Default Setting. (All parameter settings are restored to default values)

Battery Installation

Turn the battery compartment knob counterclockwise until stop.

Please install the battery according to the positive and negative signs. Otherwise, the Polaris will not start.

Replace the battery and close the compartment knob.



Battery charge level is displayed on the status bar.



NOTE:

Zeroing information will be saved when unit shut down due to empty battery.

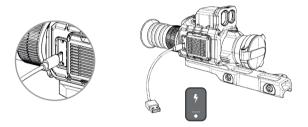
If unit is shut down by opening battery cover without proper power off. Zeroing info

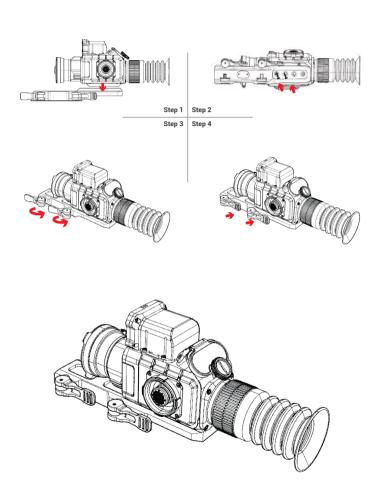
If unit is shut down by opening battery cover without proper power off , Zeroing information will not be saved.

1. Power supply / Firmware update



Serves for external power supply and firmware update





- Before storing it, clean obligatory 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 periods 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 altitude up to 12000 m.

Detector Type Uncooled Vox Uncooled Vox Resolution 3844288 640X512 Frame rate 50Hz 50Hz Pitch 12µm 12µm Spectral range 8-14µm 8-14µm NETD <25mk <25mk Optical Characteristics Objective lens 35mm/F1.1 50mm/F1.1 35mm/F1.0 50mm/1.0 Magnification 2.7x 3.8x 1.5X 2.2X FOV 7.5*x5.6* 5.3*x4* 12.6*X10* 8.8*X7* Close-up range 5m 5m 5m 5m Dioptre adjustment -50-4D -50-4D -50-4D Functions 2x/4x/PIP 2x/4x/BIPP 2x/4x/BIPP Palette 6 optional 6 optional 5months and 5 seconds 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 <th colspan="7">Polaris Technical Data Sheet</th> <th></th>	Polaris Technical Data Sheet									
Type		335R	335RL	350R	350RL	635R	635RL	650R	650RL	
Resolution 384-288 640x512	Detector									
Frame rate 50Hz 50Hz Pitch 12µm 12µm 12µm Spectral range 8-14µm 8-14µm 8-14µm NETO <25mk <25mk <25mk Optical Characteristics Objective lens 35mm/F1.1 50mm/F1.1 35mm/F1.0 50mm/1.0 Magnification 2.7x 3.8x 1.5X 2.2X FOV 7.5'x5.6' 5.3' x.4' 12.6'X10' 8.8'X7' Close-up range 5m 5m 5m Optice adjustment -50-4D -50-4D Functions Zoom 2x/4x/PIP 2x/4x/8x/PIP Palette 6 optional 6 optional 6 optional 5tlart up time Less than 5 seconds Less than 5 seconds Image enhancement DDE DDE Contrast and brightness AGC AGC Online update 8 both code and GUI resources Both code and GUI resources Display Type OLED OLED Resolution 1024-768 External video WIFI WIFI Storage 320 320	Туре		Uncoo	led Vox		Uncooled Vox				
Pitch	Resolution		384	×288						
Spectral range	Frame rate	50Hz					50	lHz		
NETD	Pitch		12	μm			12	um		
Optical Characteristics Samm/F1.1 Somm/F1.1 35mm/F1.0 50mm/1.0 Objective lens 35mm/F1.1 50mm/F1.1 35mm/F1.0 50mm/1.0 Magnification 2.7x 3.8x 1.5X 2.2X FOV 7.5'x5.6' 5.3'x 4' 12.6'X10' 8.8"X7' Close-up range 5m 5m 5m 5m Dioptre adjustment -50-4D -50-4D -50-4D Functions Zoom 2x/4x/PIPP 2x/4x/8x/PIPP -2x/4x/8x/PIPP Palette 6 optional 6 optional 5 optional 5 optional Start up time Less than 5 seconds Less than 5 seconds Less than 5 seconds Image enhancement DDE DDE DDE Contrast and brightness AGC AGC AGC Online update Both code and GUI resources Both code and GUI resources Displey OLED OLED OLED Proper 0 LED WIFI WIFI Storage 32G 32G<	Spectral range		8-1	4μm		8~14um				
Objective lens 35mmv/F1.1 50mmv/F1.1 35mmv/F1.0 50mmv/F1.0 Magnification 2.7x 3.8x 1.5X 2.2X FOV 7.5°x5.6° 5.3°x 4° 12.6°X10° 8.8°X7° Close-up range 5m 5m 5m Dioptre adjustment -50-4D -50-4D -50-4D Functions 2x/4x/PIP 2x/4x/8x/PIP Palette 6 optional 6 optional 5m Start up time Less than 5 seconds Less than 5 seconds Image enhancement DOE DDE Contrast and brightness AGC AGC Online update Both code and GUI resources Both code and GUI resources Display Type OLED OLED Resolution 1024×768 1024×768 1024×768 External video WiFI WiFI Storage 32G 32G	NETD		< 2	5mk						
Magnification 2.7x 3.8x 1.5X 2.2X FOV 7.5°x5.6° 5.3°x4° 12.6°X10° 8.8°X7° Close-up range 5m 5m 5m Dioptre adjustment -50-4D -50-4D -50-4D Functions Zoom 2x/4x/PIP 2x/4x/Bx/PIP Palette 6 optional 6 optional 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 Type OLED OLED Resolution 1024-768 1024-768 External video WiFI WiFI Storage 32G 32G	Optical Characteristics									
FOV	Objective lens	35mn	n/F1.1	50mn	n/F1.1	35mn	35mm/F1.0 50mm/1.0			
Close-up range	Magnification	2.	7x	3.	8x	1.5X 2.2X			2X	
Disprise adjustment	FOV	7.5°x	5.6°	5.3°	x 4°	12.6	5°X10°	8.8	1°X7°	
Functions	Close-up range		5	m			5	m		
Zoom 2x/4x/PIPP 2x/4x/8x/PIPP Palette 6 optional 6 optional 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 OLED OLED Type OLED OLED Besolution 1024x768 1024x768 External video WIFI WIFI Storage 32G 32G Power Supply Power Supply OLED OLED	Dioptre adjustment		-5D	-4D			-5E	1-4D		
Palette 6 optional 6 optional 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 OLED OLED Type OLED OLED Resolution 1024×768 1024×768 External video WIFI WIFI Storage 32G 32G Power Supply Power Supply	Functions									
Start up time	Zoom	2x/4x/PIP 2x/4x/8x/PIF				/8x/PIP	bx/PIP			
Image enhancement	Palette	6 optional 6 optional				tional				
Contrast and brightness AGC AGC Online update Both code and GUI resources Both code and GUI resources Display OLED OLED Presolution 1024×768 1024×768 External video WIFI WIFI Storage 32G 32G Power Supply Power Supply Power Supply	Start up time									
Online update Both code and GUI resources Displey OLED Type OLED Resolution 1024×768 External video WiFI Storage 32G Power Supply	Image enhancement									
Displey OLED OLED Type OLED 0.00 Resolution 1024-768 1024-768 External video WiFI WiFI Storage 320 326 Power Supply	Contrast and brightness	AGC			AGC					
Type OLED OLED Resolution 1024×768 1024×768 External video WIFI WIFI Storage 320 326 Power Supply	Online update	Both code and GUI resources			Both code and GUI resources					
Resolution 1024×768 1024×768 External video WIFI WIFI Storage 320 320 Power Supply	Display									
External video WiFI WiFI Storage 32G 32G Power Supply	Туре	OLED			OLED					
Storage 32G 32G Power Supply	Resolution				1024×768					
Power Supply	External video				FI					
	Storage	32G								
	Power Supply									
Battery 2x18650 2x18650	Battery	2x18650			2x18650					
External power supply 5V Type-C 5V Type-C	External power supply				ype-C					
Working time with battery 8h 6.5h	Working time with battery	8h								
Physical Characteristics	Physical Characteristics									
Weight without battery 618g 688g 650g 720g 623g 693g 665g 720g	Weight without battery	618g	688g	650g	720g	623g	693g	665g	720g	
Size(mm) 180+76+83 180+76+100 196+76+83 196+76+100 178+76+83 178+76+100 188+76+83 188+76+	Size(mm)	180+76+83	180+76+100	196+76+83	196+76+100	178+76+83	178+76+100	188+76+83	188+76+100	
Environmental Compatibility	Environmental Compatibility				·			·	·	
Water proof IP67 IP67	Water proof					IP67				
Operating temperature -20℃-50℃ -20℃-50℃	Operating temperature					-20°C-50°C				
Storage temperature -40℃-60℃ -40℃-60℃	Storage temperature		-40℃	-60°C			-40°C	-60°C		
Laser Rangefinder(Optional)	Laser Rangefinder(Optional)									
Safety class for laser equipment / 1 / 1 / 1 / 1 / 1 / 1 / 1	Safety class for laser equipment	/	1	/	1	/	1	/	1	
		/	5-1000m	/	5-1000m	/	5-1000m	/	5-1000m	
Measurement accuracy / ±1m / ±1m / ±1m / ±1m		/	±1m	/	±1m	/	±1m	/	± 1m	

(CONDTECH)

Wuhan CONO Technology Co., Ltd Tel/ Fax:0086-27-86635300 Email: Support@cono-tech.com www.cono-tech.com