

Attention!

Export of Night Arrow Series models may have export restrictions depending on the laws in your region.





Attention!



The proper usage of the device is important for safe exploitation! Therefore, reading carefully the present manual!



If the device was left in storage for a longer period of time, before exploitation check its functionality.



Disassembling of the device is prohibited, except in authorized repairing 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 moisture.

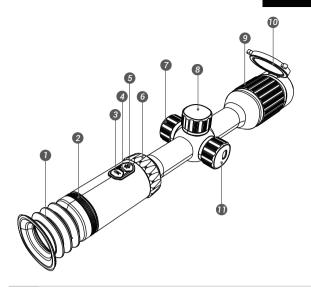


Clean the lens surfaces with the lens cloth or with the napkin!



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.(v.3.0)

- Rubber eyepiece
- 2 Diopter adjustment ring
- REC button
- 4 LED indicator
 - Charging: Red light flashes
 - Full power: Green light is steady on
 - Low power: Red light is steady on
 - Wifi on: Green light flashes quickly
 - · Wifi connects successful: Green light turns on for 3s and turns off
 - USB connects: Green light flashes
- MENU button
- 6 Rotating wheel
- Battery compartment cap
- Controller
- 9 Focus ring
- Lens cover
- USB-C

1.Controller

- 0 0FF
- I ON S Standby

5.Rotating Wheel:

Real-time image status:

Rotate counterclockwise: Zoom out Rotate clockwise:

Zoom in

Menu activation status:

Rotate counterclockwise: Left switch Rotate clockwise: Right switch

2.Menu Button:

Real-time image status:

Short press: Filter switch Long press: Enter menu

Menu activation status:

Short press: Switch menu options Long press: Exit menu /Enter or Exit submenu

4.REC + Menu Button:

Calibration

3.REC Button:

Real-time image status:

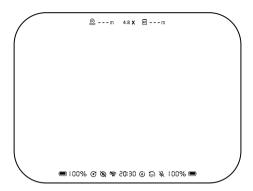
Short press: Take photo

Long press: Start/Stop video recording

Menu activation status:

Short press: Switch menu options

The status bar is on the top and bottom of the display and shows information on the actual operating status of the NIGHT ARROW.



The top of the display shows information including:

- Distance
- Magnification
- Rifle Profile
- Zeroing Distance

The bottom of the display shows information including:

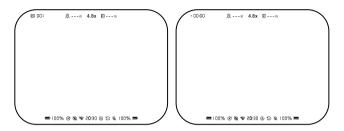
- External Battery Battery
- External Battery Capacity
- Recoil Video
- Display Mode
- WIFI Status
- Real Time
- Calibration Mode
- Standby Setting
- Audio
- Built-in Battery Capacity
- Built-in Battery Battery

Take photo/recording on-board

Short press REC button to take photo.

Long press REC button to start/stop video recording.

Number of photos or recording icon will be shown on the left top of the screen.



Firmware update via APP

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













© Extreme mode

Short press MENU/REC button to turn Extreme mode On/Off.

Image Equalizer

Short press MENU/REC button to select:

- Brightness Rotate the wheel to change the Brightness value from 1-5

Contrast Rotate the wheel to change the Contrast value from 1-5

Sharpness Rotate the wheel to change the Sharpness value from 1-5

Rangefinder

Stadiametric rangefinder

(only in NAR 335PRO/NAR 350PRO/NAR 635PRO/NAR 650PRO)

NIGHT ARROW is equipped with a stadiametric rangefinder which allows the user to estimate approximate distance to an object of known size.

Short press MENU/REC button to enter Rangefinder.





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

There are three pre-set reference objects:

Rabbit – height 0.2m

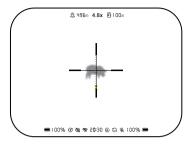
Wild boar - height 0.5m

Deer - height 1.7m

Please move lower fixed bar to the bottom of the object, then rotate the wheel to move down/up of the upper line to the top of the object. The distance of the object is automatically recalculated as you move the upper line.

Press the MENU/REC button to choose reference object. Long press MENU to save & exit the rangefinder, the range information will not disappear from the display automatically.

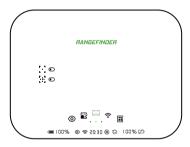
A "X" on reticle suggests the aiming point accordingly.



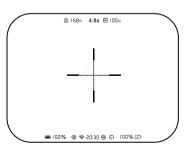
Laser rangefinder (only available in NAR LIIR series)

Short press MENU/REC to enter the laser rangefinder selection, and rotate the wheel to turn on single ranging or continuous ranging. But only one can be turned on at a time.

- Single ranging
- Continuous ranging

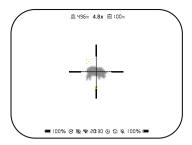


Short press MENU and the distance will be shown in the top left screen.



For an enhanced user experience, please first complete the zeroing process, followed by finalizing the Ballistic Calculate parameter settings.

When the continuous ranging is turned on, the relevant distance will show up. A "×" on reticle suggests the aiming point accordingly.





Short press MENU/REC button to turn WIFI On/Off.



Short press MENU to enter Ballistic calculator. Then rotate the wheel to turn on/off the function. Short press the MENU/REC to select Ballistic data, Velocity, Wt, Bullet BC, Drag Model, Scope Ht, and Zero range, then rotate the wheel adjust the value matching your rifle. Long press MENU to save and exit.



Ballistic data - Maximum storage capacity for 5 types of bullets.

Velocity, Wt, Bullet BC - On the bullet package or ask the bullet supplier.

Drag Model - G1 for short, flat-based bullets, G7 for long bullet with a boat-tail and pointy nose.

Scope Ht - The distance from the center of the weapon barrel to the center of the lens.

After entering the ballistic calculation parameters, please ensure to perform zeroing to enable precise usage.



NIGHT ARROW can maximize save 3 profiles of rifles. Short press MENU/REC button to select R1, R2 or R3. Long press MENU/REC button to save and exit.



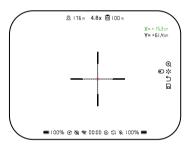
Select the zeroing profile, R1 is set as default. The zeroing distance is set in Ballistic calculator.



Take a shot, make the cross center of the reticle at point of impact. Short press **MENU/REC** button to switch zeroing options.

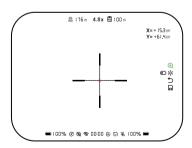
Windage/Elevation

Then rotate the wheel to adjust the X,Y value.



Zoom

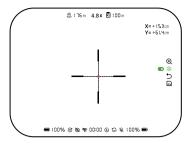
Short press **MENU/REC** button to select zoom function, then rotate the wheel to zoom in/out the reticle.



Freeze

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

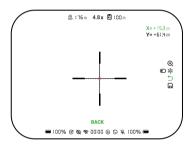
After shooting, the user needs to align the dividing center point with the center of the cross target, and then rotate the wheel to freeze the infrared image of the X value and Y value.



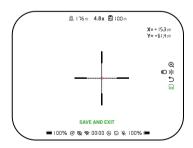
When freezing the image, you can short press MENU/REC button to adjust the other options in the zero calibration.

Then you can rotate the wheel to unfrezze the image. Long press MENU/REC to save.

Back: Long press the MENU button to return to the previous menu, the current settings will not be saved.



Save and exit: Long press the MENU button to save and exit.



Reticle



Brightness

Short press MENU/REC to enter the brightness selection, and rotate the wheel to select the value from 1-5. Long press MENU to save and exit.

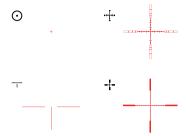


Short press MENU/REC button to enter the color selection, and rotate the wheel to select the desired reticle color, including Green, Red, White, and Black. Long press MENU button to save and exit.



Short press MENU/REC button to enter the reticle type selection and rotate the wheel to select one from 4 reticle types.

Long press MENU button to save and exit.





Short press MENU/REC to turn on/off the function. The pre-recording function activates upon detecting recoil, capturing a 10-second span before and after your shot.

Q Microphone

Short press MENU/REC to turn on/off the microphone.

(l)

Calibration Mode

Short press MENU/REC button to choose the calibration mode and long press MENU button to save and exit.





Silent (Please close lens cap when calibrating)

Defective Pixel Repair

Cover objective lens then short press **MENU** button to perform defective pixel repair. A three-second countdown will appear on the screen, and the calibration will be started.



Short press **MENU/REC** button to turn Pure Mode On/Off. The icons of submenu will be hided automatically.



Short press MENU/REC button to switch through the color modes.

Rotate the wheel to select activated or deactivated current color modes.

Color Modes can be selectively deactivated. Deactivated color modes will not show up so you only cycle through modes that you find useful.

The available Color Modes are:

WH - White Hot BH - Black Hot WW - Warm White CG - Cold Green CB - Cold Blue RB - Rainbow

Standby Setting

Short press MENU/REC button to switch the option

from 😭 🗑 🗑 🗑

(2) Advanced Settings



Device Info Contain Model, S/N, software version and hardware version.

Language Rotate the wheel to select from EN/DE/RU/CZ/ES/SE/PL, long press MENU/REC button to save and exit

Unit Rotate the wheel to select from Meter and Yard, long press MENU/REC button to save and exit.

Restore Rotate the wheel to select YES/NO, long press MENU button to save and exit.

FIP PIP

Short press MENU/REC button to turn PIP On/Off.

🔽 Screen Brightness

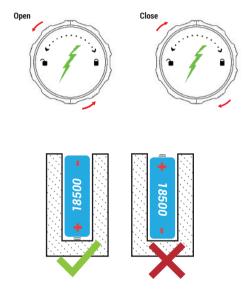
Press MENU/REC button to enter and rotate the wheel to change the value from 1-5, long press MENU button to save and exit.

Removable battery

The batteries should be charged before first use. Turn the battery compartment knob counterclockwise until stop.

Please install the battery based on the positive and negative signs. Otherwise, NIGHT ARROW will not start.

Replace the battery and close the compartment knob.



Built-in battery

NIGHT ARROW is powered by built-in rechargeable battery of total 6400 mAh and 1 removable 18500 battery.

- 1. If there are built-in battery and removable battery in the device, two battery icons are displayed in the status bar. The removable battery capacity shows on the left bottom of the status bar, and the built-in battery capacity shows on the right bottom.
- 2. When both type of batteries are fully charged, the device is powered by the removable battery. If there is low removable battery level, the device will switch to the built-in battery.
- 3.Battery charge status is displayed on the status bar.

	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	No battery	Charging
Removable Battery Capacity	Ū	Ē	Ē	Ē	Ē		Ē		ū	Ō	ğ	
Built-in Battery Capacity	À		Ē		Ē	Ē	·					(42)

4.It is possible to replace removable battery while NIGHT ARROW is on when it is powered by built-in battery (the device will continue to work properly).

External power supply

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

- 1. Connect the external power supply to the USB-C cable.
- 2.NIGHT ARROW takes to external power source while the built-in battery will gradually be recharged.
- 3.A rechargeable battery icon indicating a percentage of the battery life will appear in the status bar \mathfrak{G} .
- 4.NIGHT ARROW supports quick fully charge in only 3 hours.
- 5.When you turn off external power source, NIGHT ARROW takes power from removable battery without turning off. When there is no removable battery or low power level the device takes power from the built-in battery.



The batteries should be charged before first us.

When installing a removable battery with a sufficient charge level, NIGHT ARROW will automatically switch to it.

Zeroing information will be saved when NIGHT ARROW is shut down because of empty battery.

If NIGHT ARROW is shut down by opening battery cover without proper power off, zeroing information will not be saved.

1. Power supply/Firmware update/Charge built-in battery

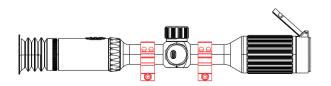


Attach to rifle

To ensure accurate shooting NIGHT ARROW should be properly mounted on the rifle.

Mount NIGHT ARROW with 30mm scope rings. Use only high-quality mounts and rings compatible with your rifle. Follow the mount manufacturer's installation instructions and use the proper tools.

When mounting NIGHT ARROW, adjust the position of the scope on the rifle to achieve optimal, comfortable eye relief. Failure to comply with this recommendation may result in injury to the shooter.



- Before storing it, clean obligatory the device.
 (In case of moisture, dust or traces of dirt on its surface)
- 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.
- You can ship the product with all types of transport at different distances and at altitude up to 12000m.

	al.	Night Arro	ow Specifica	ition						
Model	NAR 335PRO	NAR 350PRO	NAR 350LIIR	NAR 635PRO	NAR 650PRO	NAR 650LIIR				
Main Characteristics										
Detector			Uncoo	led Vox						
Resolution	384×288 640×512									
Frame rate	50Hz									
Pixel			12	μm						
Spectral range	8-14μm									
NETD	<20mk									
Optical Characteristics										
Objective lens	35mm	50mm	50mm	35mm	50mm	50mm				
Magnification	3.3x	4.8x	4.8x	1.9x	2.7x	2.7x				
FOV(HxV), m@100m	13.2×10	9.2×7	9.2×7	22×18	15.4×12.3	15.4×12.3				
Close-up range	3m									
Dioptre adjustment	±5D									
Detection Range										
Detection distance (Target size:	2480m	3540m	3540m	2480m	3540m	3540m				
1.7m× 0.5m,P(n)=99%)										
Functions										
Zoom			1x/1.5x/2x/2.5	5x/3x/4x/5x/6x						
Palettes	6									
Firmware update via APP			Y	es						
Display										
Туре	OLED									
Resolution	1024×768									
External video	WIFI									
Built-in memory			32	GB						
Power Supply										
Battery	2×18650 (Built-in battery) + 1×18500 (External battery)									
External power supply	5V-2A, 9V-2A (USB Type-C)									
Operating time (at t=22°C)	12h									
Physical Characteristics										
Weight (without external battery)	900g	950g	990g	900g	950g	990g				
Dimension	72×89×375mm	72×89×390mm	72×89×380mm	72×89×375mm	72×89×390mm	72×89×380mr				
Environmental Compatibility	у									
Ingress protection rating	IP67									
Operating temperature	-20℃-50℃									
Storage temperature	-40℃-60℃									
Shock resistance	1200g,1ms									
Laser Rangefinder (Only av	aiable in NAR 65	OLIIR)								
Safety class for laser equipment according to IEC 60825-1:2014	/		1	/		1				
Measuring range		/	5-1200m		/					
Measurement accuracy		/	± 1m		5-1200 ± 1m					
	1			l						



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