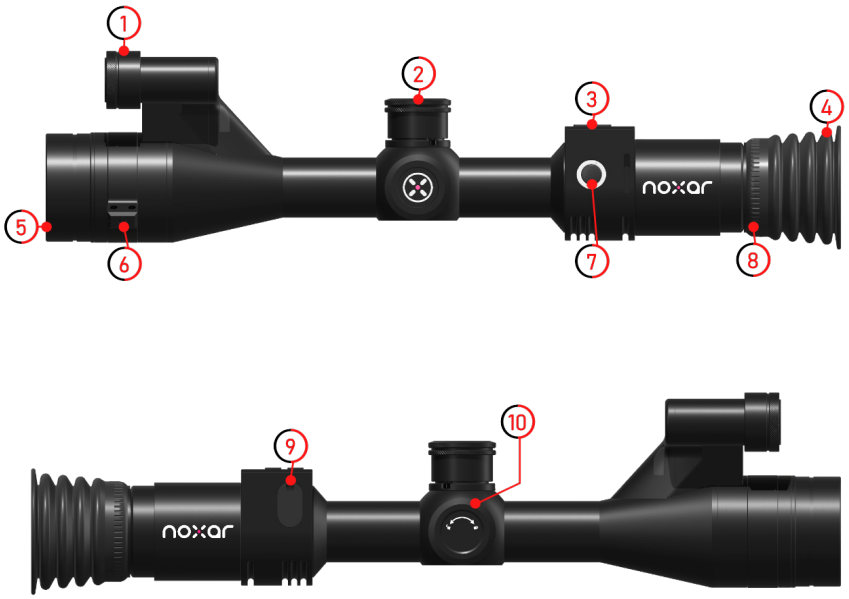
nox:ar

SIDAR

night vision scope

user manual version: I 2025 EN

Device scheme



1.	IR & LRF (in LRF model)
2.	Rotation Knob
3.	Button Panel
4.	Rubber Eyepiece Cover
5.	Objective Lens
6.	Focus Correction Level
7.	Power Button
8.	Diopter Correction Ring
9.	USB-C & MicroSD Card Slot
10.	Battery Tray

	Click	Hold	Double Click
A	Noise Reduction Level Change	Color Switch	Brightness Adjustment
B	in menu: Exit Start/Stop Recording	Preview	Capture a Photo
C	IR Level Change	Day/Night Mode Change	IR Wavelength Change
D	LRF (LRF version only)	PIP	WiFi

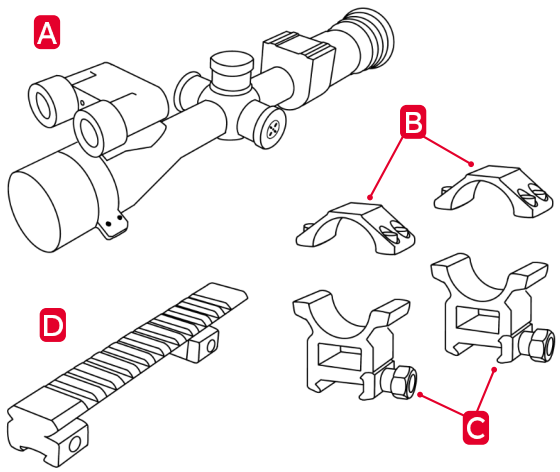
	Click	Hold
Power Button	Standby Mode	ON/OFF

Rotation Knob		
Click	**Hold**	**D. Click**
in menu: 'OK' Hide/Show Icons	in menu: Exit Enter Menu	Reset Digital Zoom
Rotate		
Zoom In / Zoom Out		

Recommendations and cautions

- Insert the 21700 cell into the device with the (+) pole inward. Use cells without protection.
- Remember to remove the cell from the battery tray when not using the device.
- We do not recommend using a powerbank to power the device. There is a risk of pulling out the USB-C socket, which involves replacing the whole motherboard (mechanical damage).
- Do not remove the battery or memory card while the device is turned on. Format the microSD card before using it for the first time. When the card is properly inserted in the device you will hear a characteristic click. The equipment supports microSD cards up to 128 GB.
- Do not look directly at the illuminator beam, as the highly focused beam can damage the eyesight. The highly concentrated beam can also ignite flammable products, so do not leave or pocket the device with the IR on. We do not recommend using IR continuously for more than 10-15 minutes. This may damage the illuminator LED.
- Do not unscrew fully the rings on the illuminator for correcting the illumination angle. This may result in easy loss of the illuminator lens.
- Do not unscrew the eyepiece completely from the device. This can enter dirt and dust inside.
- Do not expose the device to prolonged sunlight, rain, moisture, and avoid dropping or strong shocks - this may damage the internal electronics.
- We do not recommend updating the software by yourself. This may damage the motherboard.
- Failure to follow the above recommendations and cautions may lead to damage not covered by the warranty, and may void it.

Installation on the rifle



I Place the two bottom halves (C) of mounting brackets onto the Picatinny rail (D). Ensure they are aligned with the rail slots and spaced to fit the main tube of the scope. Lightly tighten the screws so the rings are stable but still adjustable.

II Gently lay the scope (A) into the rings (C). Adjust the eye relief by sliding the scope forward or backward while holding your shooting position. Ensure the reticle is level horizontally. Once aligned, carefully place the top halves (B) of the brackets and tighten them evenly — but not fully.

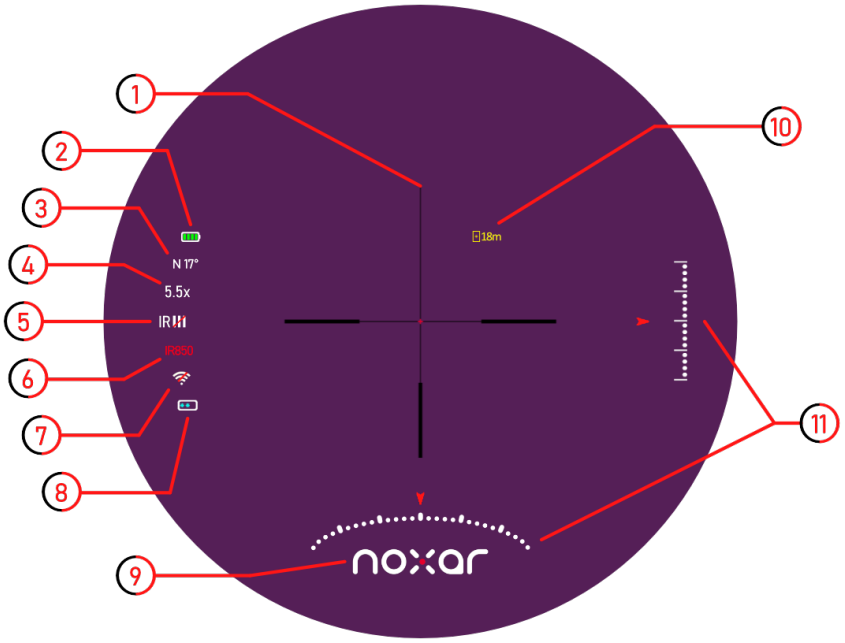
III Securely tighten all screws using a torque wrench if available, following the scope or ring manufacturer's torque specifications (typically around 1.7-2.2 Nm). Avoid over-tightening to prevent damaging the scope tube. Finally, verify proper eye relief and level reticle before use.

Operating the device

1. To turn on the device, hold down the power button, and a short press will put it into sleep mode. Another click will wake up the device.

2. After startup, adjust the focus of subtitles and icons on the screen with the diopter ring (8).

3. It is best to leave the focus of the scope eyepiece unchanged, unless there are problems with focusing. The scope's zoom should be set to the lowest value during calibration. Use the focus lever (6) to set the background sharp.



1. Reticle
2. Battery Status
3. Compass
4. Current Zoom
5. Current IR Power
6. Current IR Wavelength
7. WiFi Status
8. Noise Reduction Level
9. Noxar Logo
10. LRF Marker
11. Gyroscope

4. You can enter the main menu by holding down the rotation knob. Use it to navigate through the menu, single click

5. On the home screen, a single turn of the knob in the clockwise direction increases the digital zoom, in the opposite direction decreases the zoom. A double click of the knob will return to optical magnification.

6. Single-click the (A) button to change the level of noise reduction, hold it down to color switch. Double-click (A) to trigger the brightness adjustment.

7. Single click (B) starts video recording, clicking again will save the recording to the microSD card. Holding button (B) will enter the files preview mode. Double click to capture a photo.

8. Holding down (C) changes the day/night mode. Single click (C) changes the IR power level. Double click changes the type of IR (850/940nm). The focus of the illuminator beam is adjusted by extending it forward or backward. At maximum extension, the beam will be the most focused. To change the illumination angle of a certain illuminator, unscrew a little the ring at the end of the IR housing, then adjust the lens by pressing your finger along the edge of the lens oring.
Caution: do not unscrew the ring completely - this may cause the individual elements of the illuminator to fall out.

9. In LRF model, you can turn laser rangefinder on with a single (D) click. The rangefinder measurement is continuous and will be displayed in the upper right corner. Another click will turn on the ballistic callibration marker. Hold (D) down to turn on Picture-ni-Picture mode.

Menu functions

If the language of the device will be foreign, locate the function with the icon, enter it using the OK button, find your language on the list and click OK again to confirm selection.

To save changes to the menu, hold down the knob.

Starting Magnification - allows you to select the starting digital zoom: 5.5X/11X/16.5X/22X/27.5X/33X

Display Adjustment - The function allows you to zero the scope, set the reticle style and color.
To learn more read the 'Zeroing' section.

Display Brightness - allows you to adjust the brightness of the screen (1 - darkest; 4 - brightest).

EV Compensate - allows you to adjust the amount of light entering the sensor.
The +2.0 parameter opens the aperture completely, -2.0 closes it. Default value: 0.0

Day/Night Mode - allows you to select the color mode activated at startup.
Colorful - day mode, Black/white - night mode, Green - night mode with green filter.

IR Type - allows you to select the illuminator that is activated when the device starts.

IR Brightness Level - allows you to select the power level of IR triggered at startup.

Remember that continuous use of level 3 will heavily consume the battery and may damage the diode.

Ballistic Calibration - allows you to enable or disable ballistic calibration and input relevant parameters for accurate shooting adjustments.

NO. – select or manage ballistic profiles
Bullet Weight – enter the bullet's weight
Ballistic Calibration – ballistic coefficient
Muzzle Velocity – input the speed of the bullet as it exits the barrel
Scope Height – distance between the rifle barrel and the center of the scope
Zero Range – distance at which the rifle is zeroed
Altitude – current altitude of your shooting location, which affects air density and bullet trajectory

Noise Reduction - allows you to select the power level of image de-noising at startup.
Level 0 is disabled function (the ' ' icon on the main screen symbolizes the disabled noise).
Level 3 is the highest noise reduction (the '***' icon on the main screen).

PiP - allows you to enable Picture in Picture mode (at the top of the main screen, a window with the center of the picture magnified X2 will be displayed. Enabling PiP will be remembered at the startup of the device.

Auto Hibernation - allows you to select the idle time after which the equipment will enter sleep mode.

LRF - if a modular laser rangefinder is installed, you can select the unit of measurement and .

Meters - measurement in meters, Yards - measurement in yards

Menu functions

Auto Turn OFF - allows you to select the idle time after which the equipment will turn off.

WiFi - Xvision (AppStore/Play Store) is used to connect the device to your phone/tablet.
After installing the app on your mobile device, activate the WiFi function in the device menu.
In the application, give the necessary permissions and click the camera icon on the home screen.
After a while, the app will ask if you want to establish a connection. After confirming, you will proceed to select the connection via WiFi. Refresh the list and find the connection starting with 'NOXAR...'. Enter the password: 12345678 and connect. After a while, an image of the device should appear on the application screen, indicating a valid connection.
Note: due to the huge number of hardware configurations and system versions, the manufacturer is not responsible for the correct functioning of the application on all mobile devices.

Gyroscope - allows you to enable/disable the gyroscope displayed on the main screen.

Compass - allows you to enable/disable the e-compass displayed on the main screen.

Auto Recording - enabling the function starts video recording when the device boots. Click (B) button to save the video to the memory card.

Loop Recording - enabling the function allows recording in a 1/3/5/10 minute time loop. Click (B) button to save the last X minutes of the recording to the memory card.

Recoil-Activated Video - The device records background video in 20-second intervals. When a shot is detected, it automatically saves the 20-second sequence to a memory card.

Playback - the function opens a preview of the stored recordings on the memory card.
Click Rotation Knob to select the recording, clicking again plays/stops the video.
Rotation Knob is used to scroll through the recordings.
Click (B) on the selected file gives you access to several options:
  Delete Current/All - removes currently selected/all recordings from memory.
Holding Rotation Knob on the selected recording exits to the main preview screen.
Holding Rotation Knob again will return to the main menu.

Video Recording Time - sets the maximum time for recordings started manually.
The function is not applicable when the loop recording and auto-recording functions are active.

Audio Recording - option allows audio recording in recordings.

Date Label Display - option allows you to display a date label on the saved recording.

Language - allows you to select the language of the device.

Date/Time - allows you to set the date and time displayed on the recordings.

Format - allows you to format the microSD card. Any stored data will be lost.

Menu functions

Main Screen Logo - allows you to enable/disable the Noxar Logo displayed on the main screen.

Default setting - allows you to restore the factory settings of the device.

Version - displays the current software version.

Zeroing

To zero the scope, enter the main menu and select the ‘Display Adjustment’ function. To navigate through the submenu, use the (A)/(B) buttons to move between parameters and (C)/(D) to change the value in a parameter.

1. Set the zeroing profile to A, B, C, D, E, or F and select the desired reticle pattern.

2. Ensure the rifle is unloaded, set to safe and pointed in a safe direction. Establish a stable shooting platform and assume a natural shooting position behind the rifle.

3. Load ammunition, aim, and fire an accurate shot at the target. Make the rifle safe and observe the point of impact on the target.

4. Click the 'Freeze Icon' and adjust the center of the aiming crosshair to the point of impact using the ‘X’ and ‘Y’ parameters (by the (C) & (D) buttons or the Rotation Knob).

5. Press and hold the Rotation Knob to save the new reticle position.

6. Fire a confirmation shot. The point of impact should now coincide with the point of aim. If it does not, readjust the 'X'/'Y' coordinates.

Regulatory information

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/53/EU(RED), Directive 2014/30/EU(EMC), Directive 2014/35/EU(LVD), Directive 2011/65/EU(RoHS).

Directive 2006/66/EC and its amendment2013/56/EU (Battery Directive): This product contains a battery that cannot be disposed ofas unsorted municipal waste in the European Union. See the product documentation forspecific battery information. The battery ismarked with this symbol, which may includelettering to indicate cadmium (Cd), lead (Pb),or mercury (Hg). For proper recycling, returnthe battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

RoHS

This product and - if applicable - the supplied accessories too are marked with“ RoHS”and comply therefore the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS recast or RoHS 2).

Device parameters

Sensor Resolution	3840 x 2160 px	IR Power	5 W
Pixel Size	2 µm	IR Wavelength	850 nm & 940 nm
Sensitivity	000.1 lux	Display	IPS
Frame Rate	30 Hz	Display Resolution	1600 x 1600 px
Objective Lens	70 mm	Battery Type	Li-Ion 21700
Optical Magnification	5.5X	Output Voltage	3.7 V
Digital Zoom	2X / 3X / 4X / 5X / 6X	Memory	MicroSD max 128 GB
FOV	3.3° x 3.3° x 4.6°	Degree of Protection	IP67
Focus Range	5m - ∞	Operating Temp	-30 ~ 50 °C
Eye Relief	50 mm	Recoil Resistance	6000 J
Diopter	±4 D	Housing	Aluminium Alloy

Package contents:

Noxar Sidar	User Manual & Warranty Card
Battery Charger	Picatinny Rail 30mm Mounting Bracket (x2)
Li-Ion 21700 (x2)	Mounting Screws & Alloy Wrench
USB-C Cable	Protective Case

Note: for other batches of the product, the contents of the package may vary.

WARNING!

The device is a precision electronic apparatus. Any repairs or modifications on your own may result in damage to the equipment or loss of warranty. The producer is not responsible for the consequences of using the device improperly and not in accordance with the instruction manual. Mechanical damage, breaking the warranty seals and stickers, and self-installing software may void the warranty. Each unit is marked with a unique serial number for identification.

Read the user manual before using the equipment!