



MIDNIGHT OPTICS

NVS-30 LRF NIGHTVISION SCOPE
PRODUCT USER MANUAL

Caution

1. Do not look directly at the IR illuminator at close range, otherwise it will cause damage to your eyes!
2. When the infrared illuminator is turned on, it will focus a large amount of energy. Do not aim at flammable objects at close range. Otherwise, it may cause a fire. Please turn off the IR fill light or enter sleep mode when not using the device.
3. Please use a lithium-ion rechargeable battery with a rated voltage of 3.7V
4. If the equipment malfunctions, please contact the manufacturer. Do not open the case without authorisation, otherwise the warranty service will be deemed to have been waived.



Note: Only suitable for charging with chargers below 5V.



Unboxing instructions

The box contains x1 night vision device, x1 picatinny mount, x1 data cable, and x2 allen keys. This product does not include a memory card. If you intend to use functions such as taking photos and videos, you will need to prepare a FAT32 formatted TF card (maximum supported capacity of 128GB).

Installation Notes

1. Battery installation

Unscrew the battery cover and use a flat-head 18650 lithium-ion rechargeable battery with a rated voltage of 3.7v. Insert battery with positive terminal first.

Please make sure the battery cover is tightened.

2. Getting Started

After installing the battery and turning on the power, begin by adjusting the diopter with the lens cap shut. Rotate the night vision eyepiece diopter focusing ring until the four-corner text icons on the screen is clear. Next, open the lens cap then adjust objective lens focusing ring until the target is clearly visible.

Switch between different viewing modes and test the infrared illuminator and red dot indicator light. For the ranging LRF version, please conduct a distance measurement test.

3. Picatinny Mount installation

There are multiple screw holes under the night vision device. Use an allen key to fix the guide rail as needed. The picatinny mount provided is suitable for many types of rails.

Instructions

1. Turn On/Off

Press and hold the power button for 3 seconds to turn the device on. Press and hold the power button to turn off the device. The power indicator light will stay on in the power on/sleep mode.

2. Sleep Mode

Enter sleep mode with a short press of the Power/Sleep button when the device is turned on. Power indicator will stay ON when the device is in sleep mode.

3. Eyepiece Dioptre Adjustment

Eyepiece focusing, also known as diopter adjustment, aims to enable users with differing eyesight to clearly see the display screen. Turn the dioptre focus ring so that you can clearly see the text icons in the four corners of the screen.

Please note: Adjusting the dioptre is best done with the lens cap shut, in order to get the best focus of your eye on the display. Focusing of the image is done separately using the objective focus (see next step).

4. The Objective Lens Adjustment

Once the dioptre adjustment is completed, open the lens cap then aim at your target and adjust the objective lens ring until you get a clear and focused image.

5. IR illuminator adjustment

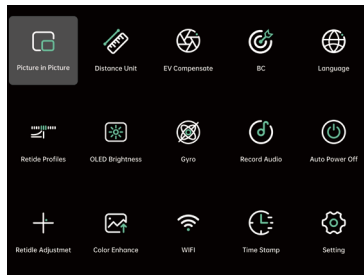
While using the the black and white or green mode, short press the navigation UP button to adjust the IR light level (IR Levels 1-5 are available), you can focus the IR Illuminator by rotating the IR Illuminator housing.

6. Red Dot Adjustment

Long press the Menu button to activate the laser red dot. The direction of laser can be adjusted with the laser adjustment screws using the provided allen key.

7. Menu Operation

Short press the menu button to display the menu bar. Use the "▲" and "▼" buttons to select the submenu, short press the "menu" button to enter the submenu, short press the "▲" and "▼" buttons to switch options, short press the "menu" button to confirm.



1: Picture in Picture

Press the "Menu" button to enter the submenu, press "▲" or "▼" to select picture and picture to be on or off. Short press the "Menu" button to confirm.

2: Reticle Profiles

Used recticle profiles to save the ballistic zero point parameters set by the user.

3: Reticle Adjustment

Short press the "Menu" button to freeze the image, short press the camera button to move to the X, Y axis value. Use the up and down buttons to adjust the crosshair position until it aligns with the impact point. Short press the camera button to move to other options. After the settings are completed, move to the save option. Short press the "Menu" button to

Save and exit, long press the "Menu" button to exit without saving. The set distance will be saved in the zeroing storage menu with the distance as the zeroing point name.

4: Distance Unit

Select "meter" or "yard" in the submenu to change the distance measurement unit.

5: OLED Brightness

Select "OLED Brightness" with the cursor and press the "Menu" button to open the submenu. Select one of the five options of "Super Dark, Dark, Normal, Bright, and Super Bright" on the submenu to adjust the display brightness.

6: Color Enhance

You can choose natural or enhanced mode and press the "Menu" button to confirm.

7: EV Compensate

Select "Exposure Compensation" with the cursor and press the "Menu" button to open the submenu. Options "1-10".

8: Gyro

Press the "Menu" button to enter the sub-page, and select "On, Off, Adjust" on the sub-menu.

9: WIFI

Select "WiFi" with the cursor and press the "Menu" button to open the submenu. Select "On" or "Off" on the submenu.

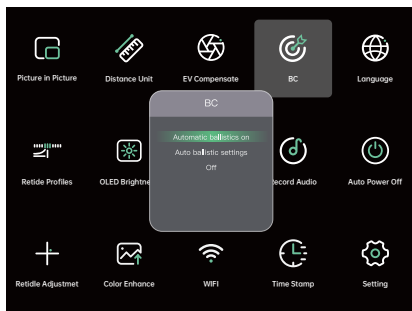
10: Ballistic Calculator

Select BC and press the MENU button to get the sub menu: Auto Ballistic On / Auto Ballistic Setting / Off.

1) Select Auto Ballistic On, press the MENU button to confirm. Hold the MENU button to quit.

2) Select Auto Ballistic Setting:

Press the CAMERA button to switch the parameters.



Bullet Weight	168 gr
BC	0.645
Muzzle Velocity	808 m/s
Scope height	71 mm
Zero distance	100 m
Altitude	200 m
Temperature	16 °C
Marking Color	Red
Confirm Cancel	

Press the UP/DOWN button to adjust the values of the parameters.

Press the CAMERA button to switch between Yes/Cancel. Select Yes to save the parameters and select Cancel to quit.

Hold the MENU button to quit.

3) Select Off, press the MENU button to turn off BC. Hold the MENU button to quit.

11: Record Audio

Select Record audio and press MENU button to open the sub menu. Select ON/OFF.

12: Time Stamp

Select On/Off to confirm whether to display the date when recording or taking photos.

13: Language

Select a language with UP/DOWN button and confirm with a short press of MENU button.

14: Auto Power Off

Options: 10 minutes / 20 minutes / 30 minutes / Off. The default setting is Off.

15: Setting

Select Setting and press the MENU button to get the submenu: Date/Time, Format, Default Setting, Version.

(1) Date/Time

Select Date/Time and press the MENU button to get the submenu. Move through the options with short press of CAMERA button. Change the option values with UP/DOWN button.

Change the date display mode with short press of UP/DOWN button. Confirm by short press of MENU button. Don't exit with long press of MENU button.

(2) Format

Enter into submenu of Format, select Yes/Cancel to confirm or cancel formatting with a brief press of MENU button.

(3) Default Setting

Select Default Setting and press MENU button to get the submenu. Select options Yes/Cancel.

(4) Version

Select Version to view the device's software version.

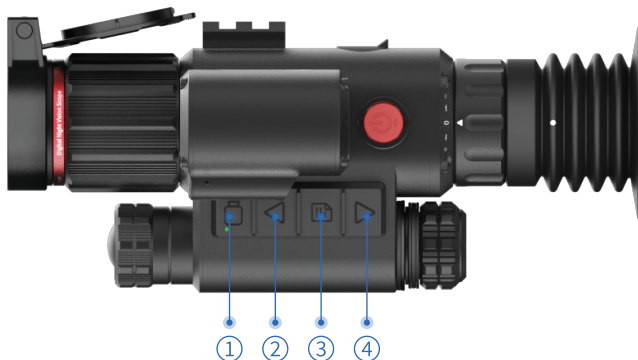
8.Shortcut key operation

The buttons correspond to a variety of operating functions. Short press or long press can achieve different shortcut operations.



sleep/power button

Press and hold the power button for 3 seconds to turn on the night vision device. Press and hold the power button in the powered-on state to turn it off. In power-on state, short press the power button to put the night vision device into sleep standby.



①.Exposure compensation/photography and video recording

Short press to adjust exposure compensation, long press for 1.5-3 seconds to take a photo shooting, and long press for 3 seconds to record a video.

②.IR/Mode switching

Short press to turn on the IR Illuminator (available in black and white mode and green mode), long press to switch the image color modes.

③.MENU

Short press to open the menu, long press to return to the previous level;

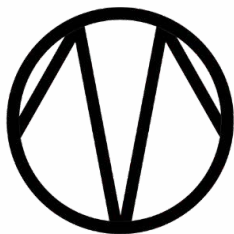
When ranging is turned on, short press the menu key to set single/continuous ranging.

④.Zoom/Laser Rangefinder

Short press to zoom in, long press to start ranging.

Specifications

Model	NVS-30LRF	Battery	1x 18650	Dimension	194x83x82mm
Magnifying Power	5x-20x	Focusing	3m-∞	Sensor	1920X1080
Voltage	3.7V	Infrared Wavelength	850nm/940nm	Laser Rangefinder	800m
Measuring Accuracy	± 1m	Output Type	MP4	Infrared Illuminator Power	5W
IR Illuminator Distance	400m	Battery Life	6.5h	Data Transmission	WIFI
Frame Rate	60fps	Net Weight	570g	Video Resolution	1920X1080
Storage Type	TF card (FAT32)				



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