

Ymir Series

USER MANUAL

Night Vision Scope



Y1L

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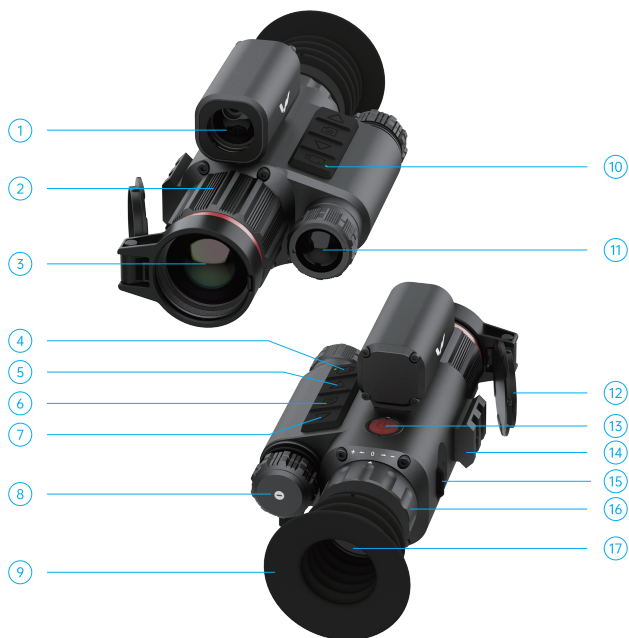


1. Product Overview

1. Do not look directly at the IR infrared light at a close range, as it may cause eye injury!
2. This product accumulates a large amount of energy when the infrared light is on. Do not point it at flammable objects at close range, as this may cause a fire. Please turn off the IR infrared light or switch to sleep mode when not in use!
3. Please use a 3.7V rated lithium-ion rechargeable battery!
4. Do not open the casing by yourself. In case of malfunction, please contact the manufacturer promptly, or it will be considered as forfeiting the warranty service.

Note: Only suitable for charging with a voltage below 5V. Don't charge the device with a voltage over 5V.

2. Product Components



1. Laser Range Finder	2. Objective Lens Focusing Ring	3. Objective Lens
4. Photo/Recording Button (REC)	5. Navigation Button (up)	6. Menu Button
7. Navigation Button (down)	8. Battery Compartment Cover	9. Eyepiece Cover
10. Indicator Light	11. Infrared Extendable Light	12. Lens Cap
13. Power ON/OFF Button	14. Picatinny Rail	15. Data Compartment Cover
16. Eyepiece Focusing Ring	17. Eyepiece	

3. Package Contents

- ▶ Y1L Night Vision Scope
- ▶ 18650 Battery
- ▶ Handbag
- ▶ Type-C Cable
- ▶ Manual
- ▶ 5V 2A Adapter
- ▶ Mount (with screws, hex-nuts and wrenches)

4. Operating Instructions

4.1. Installation Instructions

(1) Battery Installation

Unscrew the battery cover and insert one 3.7V rated flat-top 18650 lithium-ion rechargeable battery with the positive terminal facing inward. Ensure the battery cover is securely tightened.

(2) Calibration

After installing the battery and powering on the device, first adjust the diopter by rotating the diopter adjustment ring on the eyepiece until the four-corner text and icons on the screen are clearly visible (the display itself does not need to be clear). Then, adjust the focus ring on the objective lens until the desired target is clearly visible. Switch between different modes and test the infrared fill light. If applicable, for the rangefinder version, perform a distance measurement test.

(3) Mount Installation

The bottom of the night vision device features multiple screw holes. Use a hex key to securely fasten the mounting bracket as needed. The position of the bracket can be adjusted appropriately using the fixing screws. The Quick Disconnect Mount is compatible with various types of rails.

4.2. Instructions For Use

- (1) Power On/Off: Press and hold the power button for 3 seconds to turn on the device. To power off, press and hold the power button again. The power indicator light will remain steadily lit when the device is on or in sleep mode.
- (2) Sleep Mode: In the powered-on state, press the sleep button once to enter sleep mode or to wake the device. During sleep mode, the power indicator light remains constantly illuminated.
- (3) Eyepiece Focusing (Diopter Adjustment): This feature compensates for users' vision differences by calibrating the eyepiece diopter. Rotate the focus wheel until all four corner icons/text on the display become distinctly legible. Critical Note: This adjustment only ensures UI element clarity – not overall image sharpness. (Unfocused objective lenses may still produce blurred images). Perform this one-time calibration per eye.
- (4) Objective Lens Focusing: Before proceeding with the objective lens focusing, ensure that the eyepiece focusing (diopter adjustment) has been completed. Aim at the desired target and adjust the objective lens focus wheel until a clear and sharp image of the target is achieved.
- (5) Fill Light Adjustment: In black-and-white or green mode, press the up navigation button briefly to adjust the fill light level (settings include IR 1-5). For distances exceeding 100 meters or for long-range observation, the fill light focus can be adjusted by rotating and extending the fill light housing.

5. Button Functions



Power Button

- (1) To power on the night vision device, press and hold the power button for 3s. To power off the device, press and hold the power button again while it is in the powered-on state.
- (2) In the powered-on state, press the power button briefly to put the night vision device into sleep mode or to wake it from sleep mode.

Recording/Photo

- (1) Press briefly to adjust the exposure compensation.
- (2) Press and hold for 1.5-3 seconds to take a photo, or hold for 3 seconds to start/stop video recording.

Navigation Button UP

- (1) Press briefly to turn on the fill light or adjust its intensity (effective in black-and-white and green modes).
- (2) Press and hold to switch between image color modes.

Menu Button

- (1) Press briefly to open the menu, or press and hold to return to the previous level.
- (2) When the ranging function is active, briefly press the menu button to lock or unlock the ranging data.

Navigation Button Down

- (1) Press briefly to zoom in.
- (2) Press and hold to turn the ranging function on or off.

6. Menu Functions

Icon	Main Menu	Function Discription
	Picture In Picture	Press the menu button to enter the submenu, use the UP and DOWN buttons to select and turn the picture-in-picture function on or off, and press the menu button briefly to confirm.
	Zeroing and Storing	It can saving user-configured ballistic zeroing parameters.
	Crosshair Zeroing Calibration	Short-press the Menu button to freeze the image; short-press the Capture button to move to X/Y axis values. Adjust reticle position with Up/Down keys until aligned with the spring point. Short-press Capture to navigate to other options. After configuration, select "Save" option. Short-press Menu to save and exit; long-press Menu to discard changes. The configured distance will be stored in Zero Storage menu as a zero profile named by its distance value.
	Rangefinder Unit	When the cursor selects "Ranging Unit Selection," press the menu button to bring up the submenu. On the submenu, choose either "Meters" or "Yards." After confirmation, the ranging display unit will be changed accordingly.
	Display Brightness	When the cursor highlights "Screen Brightness," press the menu button to bring up the submenu. On the submenu, select from the five levels—"Ultra Dim, Dim, Normal, Bright, Ultra Bright"—to adjust the display brightness.
	Color Enhancement	Select either "Natural Color Mode" or "Enhanced Color Mode," then briefly press the menu button to confirm.
	Exposure Compensation	When the cursor highlights "Exposure Compensation," press the menu button to bring up the submenu, where options "1-10" are available.
	Gyroscope	Press the menu button to enter the subpage, and on the submenu, select "On, Off, Calibrate."
	WIFI	When the cursor highlights "WIFI," press the menu button to bring up the submenu, and on the submenu, choose to turn it on or off.

	BC	Entering the submenu presents three options: "Auto Ballistics On, Auto Ballistics Settings, Off." (1) Auto Ballistics On: Auto ballistics enabled. (2) Auto Ballistics Settings: Once opened, detailed parameters will be displayed. For instructions on how to fill them out, please refer to the operation video. (3) Off: Turn off this function.
	Recording Audio	When the cursor highlights "Recording Audio," press the menu button to bring up the submenu. On the submenu, select "On" or "Off" to enable or disable audio recording during video capture.
	Date Stamp	When the cursor highlights "Date Stamp," press the menu button to bring up the submenu. On the submenu, select "On" or "Off" to enable or disable the display of the date stamp on videos and photos.
	Languages	When the cursor highlights "Languages," press the menu button to bring up the submenu. Select the desired language and press the menu button briefly to confirm
	Auto Power Off	Options: 10 minutes, 20 minutes, 30 minutes, Off; default is Off. After powering on, you can select 10, 20, or 30 minutes for auto power-off.
	Setting	Select "Settings" with the cursor and press the Menu button to access the submenu. (1) Date & Time Select "Date/Time" with the cursor and press Menu to access the submenu. Cursor defaults to Year. Adjust with ▲/▼ keys, then press Capture to proceed to Month. Adjust month with ▲/▼, press Capture to proceed to Day. Adjust day with ▲/▼, press Capture to proceed to Hour. Adjust hour with ▲/▼, press Capture to proceed to Minute. Adjust minute with ▲/▼, press Capture to proceed to Second. Adjust second with ▲/▼, press Capture to proceed to Date Format. Select format (YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY) with ▲/▼. Short-press Menu to save and exit. (2) Format Select "Format" and press Menu to access submenu. Choose "Confirm" or "Cancel". CAUTION: Selecting "Confirm" will erase all data permanently. Operation cannot be undone! (3) Restore Defaults Select "Default Settings" and press Menu to access submenu. Choose "Confirm" or "Cancel" to restore factory settings. WARNING: This action is irreversible.

		(4) Version Info Select "Version" and press Menu to view currently installed software version.
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7. Device Connection

Download the dedicated app to connect the device to your mobile device via WiFi.

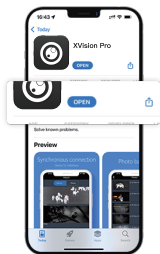


Android/iOS: Scan to download



XVision

Search "XVision" on Google Play to Download.



Download and install the app



Turn on the device and enable WiFi.



Select WiFi "xx." and connect
(Default: WiFi password: **12345678**)



Open the App

8. Specifications



83mm

82mm



194mm

Y1L

Magnifying Power	5x-20x
Sensor	1920X1080
Infrared Wavelength	850nm
IR Illuminate Distance	400m
Infrared Fill Light Power	5W
Battery	18650/3500mAh
Voltage	3-4.2V
Battery Life	6.5hours
Focusing	3m-∞
Laser Rangefinder Range	1000m
Measuring Accuracy	± 1m
Dimension	194x83x82mm
Net Weight	565g
Frame Rate	60fps
Data Transmission	WIFI
Storage Type	TF card (FAT32)
Output Type	MP4
Video Resolution	1024X768
Waterproof Rating	IP67

9. Maintenance and Care

(1) After completing observation or if the device is powered on for an extended period without observing a target, it should be turned off promptly to extend the effective usage time of the night vision telescope.

(2) The lens of the night vision telescope is a critical optical component. During installation and use, avoid contamination and damage to the lens surface from oil stains and various chemical substances. After use, please cover the lens with the lens cap.

(3) When the night vision telescope is not in use or during transportation, please remove the batteries and place the night vision telescope in its packaging case.

(4) When the night vision telescope is stored for an extended period without use, it should be kept in a cool and dry environment as much as possible.

(5) Do not clean the housing of the night vision telescope with chemical solvents or thinners. Instead, use a clean, soft, and dry cloth for wiping.

(6) The lens of the night vision telescope should only be cleaned when it is visibly dirty. Avoid touching the lens surface, as the acidic substances left by fingerprints can damage the coating and lens surface. Use only a dedicated lens cloth to clean the lens.

(7) When not in use for an extended period, the device should be powered on and calibrated once every six months.

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



Thermal Imaging & Night Vision
www.falconoptic.com