

Dark Series

USER MANUAL

Night Vision Monocular



DK-1L

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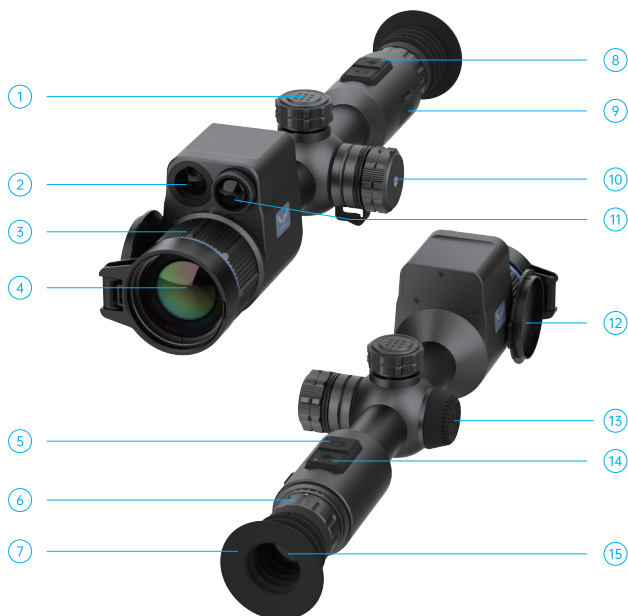


1. Cautions

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. Components



1. Rotary Encoder	2. Laser Range Finder Module	3. Objective Lens Focusing Ring
4. Objective Lens	5. Photo/Recording Button (REC)	6. Eyepiece Focusing Ring
7. Eyepiece Cover	8. Indicator Light	9. Data Compartment Cover
10. Battery Compartment Cover	11. Infrared Extendable Light	12. Lens Cap
13. Power ON/OFF Button	14. Laser Range Finder Button	15. Eyepiece

3. Product and Accessories

- ▶ DK-1L Night Vision Monocular
- ▶ 26650 Battery
- ▶ Device Carrying Bag
- ▶ Type-C Data Cable
- ▶ User Manual
- ▶ 5V2A Adapter
- ▶ Aluminum Alloy Tube Clamp (with screws, hex nuts, wrenches included)

4. Operating Instructions

- (1) Battery Installation: Unscrew the battery cover to install one rated voltage 3.7V flat-top 26650 lithium-ion rechargeable battery with the positive pole facing inward. Ensure the battery cover is screwed on tightly.
- (2) Power On/Off: Long press the power button for 1 second to power on. Long press the power button for 3 seconds to power off.
- (3) Eyepiece Focusing: Eyepiece focusing is also called diopter adjustment, aiming to allow users with different vision levels to clearly see the displayed content. Rotate the focus wheel until the text icons at the four corners of the screen are clearly visible to the eye.
- (4) Objective Lens Adjustment: Before adjusting the objective lens focus, ensure eyepiece focusing (diopter adjustment) is complete. Aim at the target you want to see, adjust the objective lens focus ring until you clearly see the target image.
- (5) Fill Light Adjustment: In black-and-white or green mode, short press the power button to adjust the fill light level (set to IR1-5 levels). For targets over 100 meters or long distances, focus the fill light by rotating and extending the fill light housing.
- (6) Clamp Installation: Fix the clamp (aluminum alloy tube clamp) onto the tube fixing positions on both sides of the function adjustment knob of the night vision monocular, and tighten using a hex wrench. The clamp position can be appropriately adjusted via the fixing screws. The dual clamp is suitable for various types of rails.

5. Button Functions



Power Button

- (1) Long-press for 3 seconds to power on. Long press for 3 seconds when powered on to power off. When powered on and switched to black-and-white or green mode, short press to adjust IR light brightness.
- (2) Short-press to return to the main interface after entering the menu.



Photo/Video Button

- (1) Long-press for over 1.5 seconds to take a photo. Long press for over 3 seconds to start/stop video recording.
- (2) Short-press to switch exposure compensation.



Ranging Button

- (1) Long-press to turn the laser ranging function on/off.
- (2) Short-press to lock the ranging value.



Rotary Encoder

- (1) Short-press to turn Picture-in-Picture (PIP) on/off.
- (2) Long-press to enter the menu interface. Rotate the encoder to switch selections. Short-press the rotary encoder again to confirm the selection and return to the menu interface.
- (3) Rotate clockwise in the observation interface to switch modes; move upward in the menu.
- (4) Rotate counterclockwise in the observation interface to switch electronic zoom; move downward in the menu.

6. Menu Functions

Icon	Main Menu	Function Discription
	Picture In Picture	Press briefly the rotary encoder to enter the submenu, then rotate the rotary encoder to select and turn the picture-in-picture function on or off, and press briefly the rotary encoder again to return to the main menu.
	Zeroing and Storing	For saving user-configured ballistic zeroing parameters.
	Crosshair Zeroing Calibration	Press briefly the rotary encoder to freeze the image, and briefly press the photo button to move to the X, Y axis values, use the up and down buttons to adjust the crosshair position until it aligns with the impact point, press briefly the rotary encoder again to move to other options, after completing the settings, navigate to the save option, press briefly the rotary encoder to save and exit, press and hold the rotary encoder to exit without saving, the set distance will be saved as the zeroing point name in the zeroing storage menu.
	Rangefinder Unit	When the cursor selects Ranging Unit Selection, press the rotary encoder 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 selects Screen Brightness, press the rotary encoder to bring up the submenu. On the submenu, press briefly the rotary encoder to 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 press briefly the rotary encoder to confirm.

Icon	Main Menu	Function Discription
	Exposure Compensation	When the cursor highlights Exposure Compensation, press the rotary encoder to bring up the submenu, where options "1-10" are available.
	Gyroscope	When the cursor highlights Gyroscope, press the rotary encoder to enter the submenu, then select "On, Off, Calibrate".
	WIFI	When the cursor highlights "WIFI", press the rotary encoder to bring up the submenu, and on the submenu, choose to turn it on or off.
	BC	When the cursor highlights "BC", press briefly the rotary encoder to 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 rotary encoder 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 rotary encoder 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 rotary encoder to bring up the submenu. Select the ideal language and briefly press the menu button 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.

Icon	Main Menu	Function Discription
	Setting	When the cursor highlights Default Settings, press the rotary encoder to bring up the submenu. (1) Date/Time When the cursor highlights "Date/Time", press the rotary encoder to bring up the submenu. The cursor will first be on the year position. Use the rotary encoder to adjust the year, then press the Record Button to confirm. The cursor will then move to the month position. Use the rotary encoder to adjust the month, then press the Record Button to confirm. The cursor will then move to the day position. Use the rotary encoder buttons to adjust the day, then press the Record Button to confirm. The cursor will then move to the hour position. Use the rotary encoder to adjust the hour, then press the Record Button to confirm. The cursor will then move to the minute position. Use the rotary encoder to adjust the minutes, then press the Record Button to confirm. The cursor will then move to the seconds position. Use the rotary encoder to adjust the seconds, then press the Record Button to confirm. The cursor will then move to the date display format. Use the rotary encoder to select from three date display formats: "YYYY/M-M/DD", "MM/DD/YYYY", or "DD/MM/YYYY". Briefly press the rotary encoder to save and exit. (2) Format When the cursor highlights Format, press the menu button to bring up the submenu. On the submenu, select Confirm or Cancel. Please proceed with caution. Once deleted, the data cannot be recovered. (3) Default Setting When the cursor highlights Default Settings, press the rotary encoder to bring up the submenu. On the submenu, select Confirm or Cancel to restore the device to its factory default settings. (4) Version When the cursor highlights Version Number, press the rotary encoder to view the device's software version information.

7. Device Connection

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

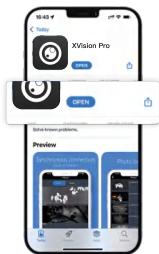


Android/iOS: Scan to download

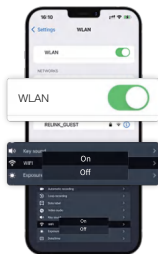


XVision

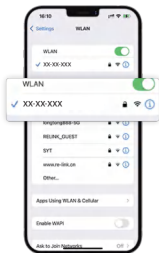
Search "XVision" on Google Play to Download.



Download and install the app



Turn on the device and enable WiFi

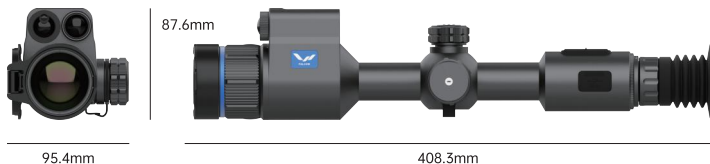


Select WiFi "xx." and connect
(Default WiFi password: **12345678**)



Open the App

8. Specification



DK-1L

Objective Focal Length	50mm
Magnification	3x
Digital Zoom	3x/6x/9x/12x/15x/18x
Eye Relief	50mm
Diopter Adjustment	+5/-5D
Focus Distance	3m~∞
Field of View (FOV)	8.9°x5°
Detection Distance	1300m
Color Modes	Color Mode, B&W Mode, Green Mode
Display Type/Resolution	0.39inch/OLED/1920x1080
Sensor Resolution	2688x1520
Infrared Wavelength	850nm
Infrared Range	400m
IR Fill Light Power	5W
Battery	26650 Li-ion Battery / 5000mAh
Voltage	3.7V
Usage Time	5 hours
Focusing Range	3m~∞
Ranging Range	1000m

Ranging Accuracy	± 1m
Dimensions	408.3x95.4x87.6mm
Weight	1168g
Frame Rate	60fps
Transmission Method	WiFi
Storage Type	TF Card (FAT32 format)
Video/Photo Format	.mp4 / .jpg
Video Resolution	1920X1080
Waterproof Rating	IP67

9. Maintenance

(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