

Dark Series

# Product User Manual

Night Vision Monocular



DK-3L

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# 1. Product Overview

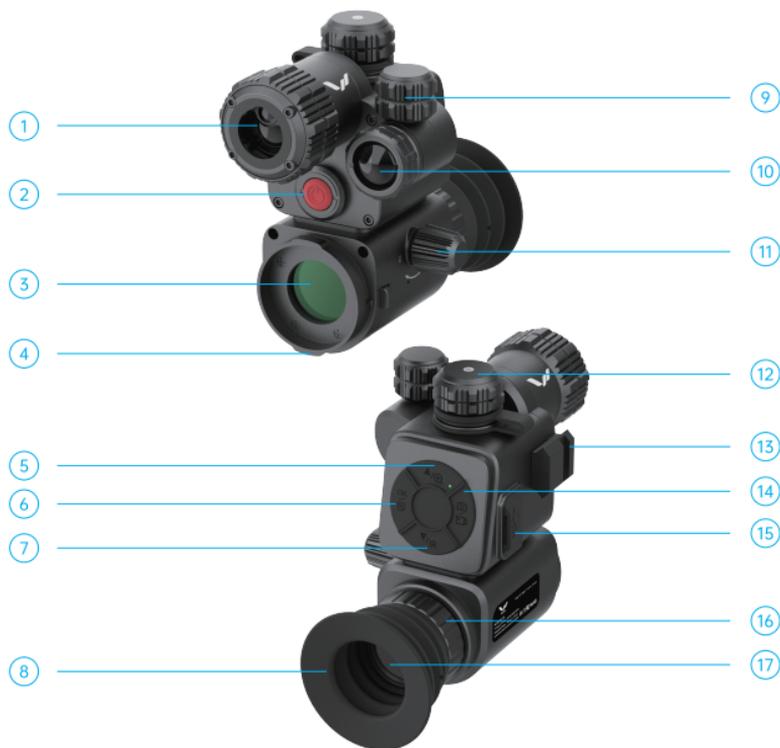
1.1. The DK-3L Night Vision Monocular is a dual-use device designed for both day and night observation. It features a high-resolution 5MP image sensor, delivering vivid color images during the day and clear black-and-white images at night using near-infrared illumination. The eyepiece focus can be adjusted for sharp viewing from as close as 0.1 meters to infinity.

1.2. The device captures images via the optical module and transmits them to an OLED display after processing. You can view these images through the eyepiece and also connect to the mobile app for real-time viewing, monitoring, and settings adjustment.

1.3. The DK-3L supports both 850nm and 940nm night vision IR lights, giving you the option to balance sensor efficiency and covert, eye-invisible operation—allowing you to adapt to various observation needs day or night.

1.4. The product is equipped with laser rangefinder, enabling accurate distance measurement up to 1000 meters.

## 2. Product Components



1. Laser Rangefinder Module	2. Power Button	3. Objective Lens
4. 1/4-inch Threaded Mount	5. Up Navigation Button	6. Menu Button
7. Down Navigation Button	8. Eyeshade	9. Light Source Selector Knob
10. IR Illuminator Lens Assembly	11. Objective Focus Knob	12. Battery Compartment Cover
13. Picatinny Rail	14. Video Record Button	15. Data Transfer Port
16. Eyepiece Focus Ring	17. Eyepiece	

## 3. Package Contents

- ▶ DK-3L Night Vision Monocular
- ▶ 18650 Rechargeable Battery
- ▶ Carrying Case
- ▶ Type-C Data Cable
- ▶ User Manual
- ▶ 5V 2A Power Adapter
- ▶ Hex Wrench
- ▶ Electrical Tape
- ▶ Socket Wrench

## 4. Operating Instructions

### 4.1. Warnings

- (1) Do not look directly into the infrared illuminator at close range, as it may cause eye injury.
- (2) Wait at least 20 seconds between each power-on cycle.
- (3) Handle the device carefully during use. Avoid dropping, striking, or shaking to prevent damage to optical, electronic, or structural components.
- (4) Do not disassemble the device yourself. If it malfunctions, contact the manufacturer immediately. Unauthorized disassembly will void the warranty.
- (5) When not in use or during transport, remove the battery and store the monocular in its protective case.
- (6) If the battery runs low, replace it promptly to avoid damage caused by over-discharge.
- (7) Using the device outside the specified environmental conditions may result in damage.

## 4.2. How to Use

- (1) Unpack the night vision monocular, install the battery following the polarity marks on the battery cover, tighten the cover, then press and hold the power button for 3 seconds to turn it on.
- (2) Look through the eyecup at the display and adjust the eyepiece focus ring until the symbols and numbers appear sharp.
- (3) View the screen through the eyepiece, align the monocular with your target, and use the objective focus knob to bring the object into clear focus.
- (4) Under night vision conditions, press and hold the Down Navigation Button to switch to black-and-white or green night vision mode. Briefly press the same button to turn on the IR illuminator, remove the IR lens cap, aim at the target, and adjust the focus knob until the image is clear.
- (5) Briefly press the Down Navigation Button to activate the illuminator. Use the light source selector knob to switch between 850nm and 940nm IR lights.

## 4.3. Notes

- (1) Only clean the optical components (objective lens, eyepiece, IR illuminator lens, laser rangefinder lens) when dirt affects image quality. Use a lens cloth with a small amount of alcohol to gently wipe the lens surface, avoiding damage to coatings.
- (2) Do not stare directly into the infrared light or laser for extended periods to avoid damage to eye.
- (3) After use or when not observing for extended periods, turn off the device to prolong its service life.

## 5. Button Functions



### Power Button

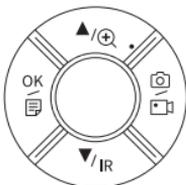
- (1) Press and hold the power button for 3 seconds to turn the device on or off.
- (2) When idle, the display enters sleep mode and shows a sleep icon. Briefly press the power button to wake the device.

### Up Navigation Button

- (1) Press and hold to turn the rangefinder on or off.
- (2) Briefly press to switch magnification levels.
- (3) In menu mode, briefly press to move the cursor up.

### Menu Button

- (1) Press and hold the menu button to open or close the main menu.
- (2) Briefly press the menu button to adjust screen brightness.



### Photo & Video Button

- (1) Press and hold to start recording, and press and hold again to stop.
- (2) Briefly press to take a photo.

### Down Navigation Button

- (1) Press and hold to switch between color, black-and-white, and green display modes.
- (2) Briefly press to adjust the brightness of the IR light source.
- (3) In menu mode, briefly press to move the cursor down.

## 6. Menu Functions

Icons	Main Menu	Function Descriptions
	Crosshair Center Adjustment	Press and hold the menu button to enter the main menu. Use the Down Navigation Button to select "Crosshair Adjustment," then press the menu button to activate. Press the Record button to toggle between X and Y axis adjustments. Use the Up or Down buttons to adjust values until the crosshair is centered on the display. Press the Record button to move to "Save," then press the menu button to confirm (default is X:0/Y:0).
	WiFi	<ol style="list-style-type: none"> <li>1. Turn on WiFi from the device menu. On your phone, open WiFi settings and the app. Find the device's WiFi name "****-***-***" and connect using password "12345678."</li> <li>2. Once connected, you can view real-time images captured by the device on your phone.</li> </ol>
	Gyroscope Display	Press the menu button to enter the submenu. Use the Up or Down Navigation Buttons to select On or Off, then press the menu button to confirm.
	Gyroscope Calibration	Enter the calibration screen by pressing the menu button. Place the device on a stable horizontal surface. Press the menu button to start calibration. Press and hold the menu button to exit.
	Picture-in-Picture (PIP)	Select the PiP menu and press the menu button to enter the submenu. Use the Up or Down Navigation Buttons to select 2X, 3X, 4X magnification, or Off. Press the menu button to save and exit after selecting your desired setting.
	PIP Position Adjustment	Enter the submenu using the menu button. Ensure PIP is turned on first. Use the X and Y axis values displayed at the bottom of the screen to adjust PIP position. After adjustment, press the Record button to move to the Save option, then press the menu button to save.
	Default Boot Magnification	Press the menu button to enter the submenu. Use the Up or Down Navigation Buttons to select the default magnification on startup from 1.0X, 1.5X, 2.0X, 2.5X, 3.0X, or 3.5X. The default is 1.0X.
	Default Boot Color Mode	Enter the submenu by pressing the menu button. Use the navigation buttons to select from Color, Black-and-White, or Green display modes. Press the menu button to confirm. The selected mode will be kept at next startup. Default mode is color.

	Default Boot IR Brightness	Press the menu button to enter the submenu. Use the navigation buttons to select the default IR brightness on startup. Default is Off.
	Laser Red Dot	Enter the Laser Red Dot menu by pressing the menu button. Select On or Off to enable or disable the laser red dot. Confirm the selection.
	OLED Brightness	Enter the OLED brightness menu by pressing the menu button. Choose from Super Dim, Dim, Normal, High, or Super High to adjust the display brightness.
	Auto Recording	Briefly press the menu button to enter the submenu. Use the navigation buttons to move the cursor, then press the menu button to confirm.
	Loop Recording	Select "Loop Recording" and press the menu button to enter the submenu. Choose Off, 3 min, 5 min, or 10 min. Confirm to set loop recording behavior on the next startup. Default is Off.
	Date Stamp	Select "Date Stamp" and press the menu button to enter the submenu. Choose On or Off to enable or disable the display of the date stamp in recordings. Default is Off.
	Audio Recording	Select "Audio Recording" and press the menu button to enter the submenu. Choose On or Off to enable or disable audio recording.
	Playback	Press and hold the Photo/Video button to start recording, or briefly press to take a photo. Enter the submenu and select Playback to view previously recorded videos and photos.
	Exposure Compensation	Select "Exposure Compensation" and press the menu button to enter the submenu. Choose from -2, -5/3, -4/3, -1, -2/3, -1/3, +0, +1/3, +2/3, +1, +4/3, +5/3, or +2 to adjust exposure. Confirm your selection. Default is +0.
	Range Unit	Select the measurement unit for distance—either meters or yards.
	Date/Time	Select "Date/Time," then press the menu button to enter the submenu. Use the Photo button to move through year, month, day, hour, minute, and second. Use the Up or Down Navigation Buttons to adjust values. At the bottom, select your preferred date format: YYYY/MM/DD, MM/DD/YYYY, or DD/MM/YYYY. Confirm and save by pressing the menu button.
	Language Setting	Press the menu button to enter the submenu. Use the navigation buttons to select your language, then press the menu button to confirm.
	Format Storage Card	Press the menu button to enter the submenu. Select Yes or No to format the storage card. Press the menu button again to confirm. Warning: formatting will delete all data permanently.

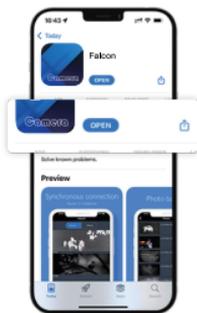
	Restore Default Settings	Press the menu button to enter the submenu. Select Confirm or Cancel to restore factory default settings. Confirm carefully as this will reset all settings.
	Version Information	Select "Version" and press the menu button to view the device's software version information.

## 7. Connecting the Device

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



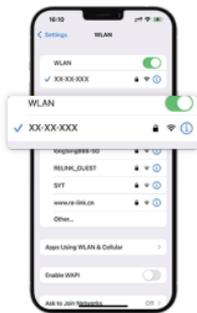
Scan the QR code to download the app for Android or iOS.



Download and install the app.



Turn on WiFi on your phone.



Select the WiFi named "XX..." and connect using the default password "**12345678**."



Open the app.

## 8. Specifications



### DK-3L

Sensor	
Type	CMOS
Resolution/Pixels	2592x1944
Optical Characteristics	
Objective Focal Length	12mm/16mm
Magnification	1-3.5X
F-number, D/f'	1X
Eye Relief	30mm
Field of View	24.4°X18.4°/16°X12.5°
Eyepiece Diopter Adjustment	+5/-5 D
Minimum Focusing Distance	0.1m
IR Illuminator	
Wavelength	850nm/940nm
Display	
Type/Resolution	0.39 inch / AMOLED / 1024x768

Product Features	
3D Gyroscope	Yes
Power Supply	3-4.2 V
Battery	18650 Lithium Battery / 3500mAh
External Power Supply	5V (USB)
Operating Time (at 22°C)	6 hours
Maximum Recoil Resistance	6000 Joules
Protection Level	IP67
Operating Temperature	-20°C~+50°C
Dimensions	144.5x75x124.3mm
Weight	416g
Recorder	
Video/Photo Resolution	2304x1728
Video/Photo Format	.mp4 / .jpg
Storage Type	TF Card (FAT32), supports up to 128GB
Wireless Channel	
Frequency	2.4GHz
Standard	802.11 b/g
WiFi Reception Range	15m
Rangefinder	
Wavelength	905nm
Maximum Measuring Distance	1000m
Measuring Accuracy	+ /-1m

## 9. Maintenance and Care

9.1. The objective lens, laser rangefinder lens, and illuminator lens are key optical components. Avoid oil stains or chemical exposure during use to prevent damage. Always cover the lens and retract the illuminator after use.

9.2. Remove the battery when the device is not in use or during transport, and store the monocular in its protective case.

9.3. For long-term storage or periods of inactivity, keep the device in a cool, dry place.

9.4. Do not use chemical solvents or thinners to clean the device housing. Wipe it with a clean, soft, dry cloth.

9.5. If not used for an extended time, power on and calibrate the device every six months.





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