

The Dark Series

PRODUCT INSTRUCTION

Night Vision Scope



DK-2L

CONTENTS

1. Cautions	01
2. Components	02
3. Product and Accessories	03
4. Instruction	03
5. Button Functions	05
6. Menu Functions	06
7. Device Connection	09
8. Specification	10
9. Maintenance	11



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. Laser Range Finder	2. Objective Lens Focusing Ring	3. Objective Lens
4. Photo/Recording Button (REC)	5. ↑ Navigation UP Button	6. Menu Button
7. ↓ Navigation DOWN Button	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. Product and Accessories

- ▶ DK-2L 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 icon on the screen is clearly visible (the image itself does not need to be clear). Next, 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. 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): The eyepiece focusing feature, also referred to as diopter adjustment, is designed to accommodate users with varying visual capabilities, ensuring that the display content is clear and sharp for all. Adjust the focus by rotating the focus wheel until the text and icons located at the four corners of the screen are distinctly visible and legible to the user. Please note that this adjustment does not guarantee a clear overall image, as the image may still appear blurry if the objective lens is not properly focused. For each individual, this adjustment is necessary only once per eye. Rotate the focus wheel until the icons at the four corners of the screen are distinctly visible and legible.
- (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, briefly press the up navigation button 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, briefly press the power button to put the night vision device into sleep mode or to wake it from sleep mode.

Recording/Photo

- (1) Briefly press 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) Briefly press 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) Briefly press 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) Briefly press 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 briefly press the menu button to confirm your selection.
	Zeroing and Storing	It can saving user-configured ballistic zeroing parameters.
	Crosshair Zeroing Calibration	Briefly press the menu button to freeze the image, 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, briefly press the photo button again to move to other options, after completing the settings, navigate to the save option, briefly press the menu button to save and exit, press and hold the menu button 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 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	<p>Entering the submenu presents three options: "Auto Ballistics On, Auto Ballistics Settings, Off."</p> <p>(1) Auto Ballistics On: Auto ballistics enabled.</p> <p>(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.</p> <p>(3) Off: Turn off this function.</p>
	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 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.
	Setting	<p>When the cursor highlights "Default Settings," press the menu button to bring up the submenu.</p> <p>(1) Date/Time: When the cursor highlights "Date/Time," press the menu button to bring up the submenu. The cursor will first be on the year position. Use the "UP" and "DOWN" buttons to adjust the year, then press the "Record" button to confirm. The cursor will then move to the month position. Use the "UP" and "DOWN" buttons to adjust the month, then press the "Record" button to confirm. The cursor will then move to the day position. Use the "UP" and "DOWN" buttons to adjust the day, then press the "Record" button to confirm. The cursor will then move to the hour position. Use the "UP" and "DOWN" buttons to adjust the hour, then press the "Record" button to confirm. The cursor will then move to the minute position. Use the "UP" and "DOWN" buttons to adjust the minutes, then press the "Record" button to confirm. The cursor will then move to the seconds position. Use the "UP" and "DOWN" buttons to adjust the seconds, then press the "Record" button to confirm. The cursor will then move to the date display format. Use the "UP" and "DOWN" buttons to select from three date display formats: "YYYY/MM/DD," "MM/DD/YYYY," or "DD/MM/YYYY." Briefly press the menu button to save and exit.</p> <p>(2) Format</p> <p>When the cursor highlights "Format," press the menu button to bring up the submenu. On the submenu, select "Confirm" or "Cancel." Please</p>

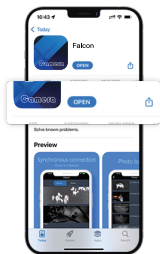
		<p>choose carefully, as confirming will delete all data, which cannot be recovered!</p> <p>(3) Default Setting</p> <p>When the cursor highlights "Default Settings," press the menu button to bring up the submenu. On the submenu, select "Confirm" or "Cancel" to restore the device to its factory default settings. Please proceed with caution.</p> <p>(4) Version</p> <p>When the cursor highlights "Version Number," press the menu button to view the device's software version information.</p>
--	--	--

7. Device Connection

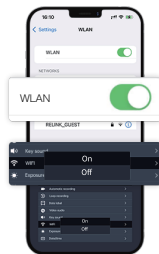
Download the dedicated APP and connect to the device via WiFi.



Download APP by Scanning the QR code according to the mobile phone system.



Download the APP



Enable WiFi on both the device and the phone.



Connect to the device's WiFi network
(default password: **12345678**)



Enter APP

8. Specification



83mm

82mm



194mm

DK-2L

Magnifying Power	5x-20x
Sensor	1920X1080
Infrared Wavelength	850nm/940nm
IR Illuminate Distance	400m
Infrared Fill Light Power	5W
Battery	18650/3500mAh
Voltage	3.7V
Battery Life	6.5h
Focusing	3m-∞
Laser Rangefinder Range	1000m
Measuring Accuracy	± 1m
Dimension	194x83x82mm
Net Weight	570g
Frame Rate	60fps
Data Transmission	WIFI
Storage Type	TF card (FAT32)
Output Type	MP4
Video Resolution	1920X1080

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.



FALCON

Thermal Imaging & Night Vision

www.falconoptic.com