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KOLINLOV 5th

KOLINLOV Digital Night Vision Monocular User Manual

Model: 5th
Brand: KOLINLOV

Introduction

Thank you for choosing the KOLINLOV Digital Night Vision Monocular. This device is designed for enhanced night observation, offering clear imaging in complete darkness with its 850nm IR illuminator and 1920x1080 CMOS sensor. It features 4X optical and 4X digital zoom, and the ability to record HD 1080P photos and videos. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your monocular.



The KOLINLOV Digital Night Vision Monocular features advanced capabilities for both day and night use, including high-definition recording and powerful zoom.

What's in the Box

Please check the package contents to ensure all items are present:

- Digital Night Vision Monocular
- USB Cable
- Hex Key
- 32GB TF Card



Included accessories with the monocular. Please note that the 18650 battery is not included and must be purchased separately.

Setup

Battery Installation

The monocular requires one 3.7V 18650 battery. Both button-top and flat-top batteries are compatible. A capacity of 2600mAh or 3400mAh is recommended. Ensure the battery is inserted with the correct polarity.

▶ **Watch video online**
battery information for Digital Night Vision Monocular

This video demonstrates the correct battery type (3.7V 18650) and proper installation procedure for the monocular. It shows how to measure the battery and insert it into the device.

TF Card Installation

Locate the TF card slot on the side of the monocular. Gently insert the provided 32GB TF card until it clicks into place. Ensure it is inserted in the correct orientation to avoid damage.

Mounting the Monocular

The monocular is designed for easy installation on 20mm standard guide rails, such as Picatinny or Weaver mounts. Use the provided hex key to secure the monocular firmly to your desired mounting point. Ensure it is stable before use to maintain accuracy.



The monocular is designed for robust mounting on standard 20mm rails, offering strong recoil resistance for stable performance.

Operating Instructions

Powering On/Off

To power on the device, press and hold the power button until the display illuminates. To power off, press and hold the power button again until the display shuts down.

Focus Adjustment

Adjust the objective lens and eyepiece focus rings until the image appears clear and sharp. This is crucial for optimal viewing, especially when observing objects at varying distances.

Day and Night Modes

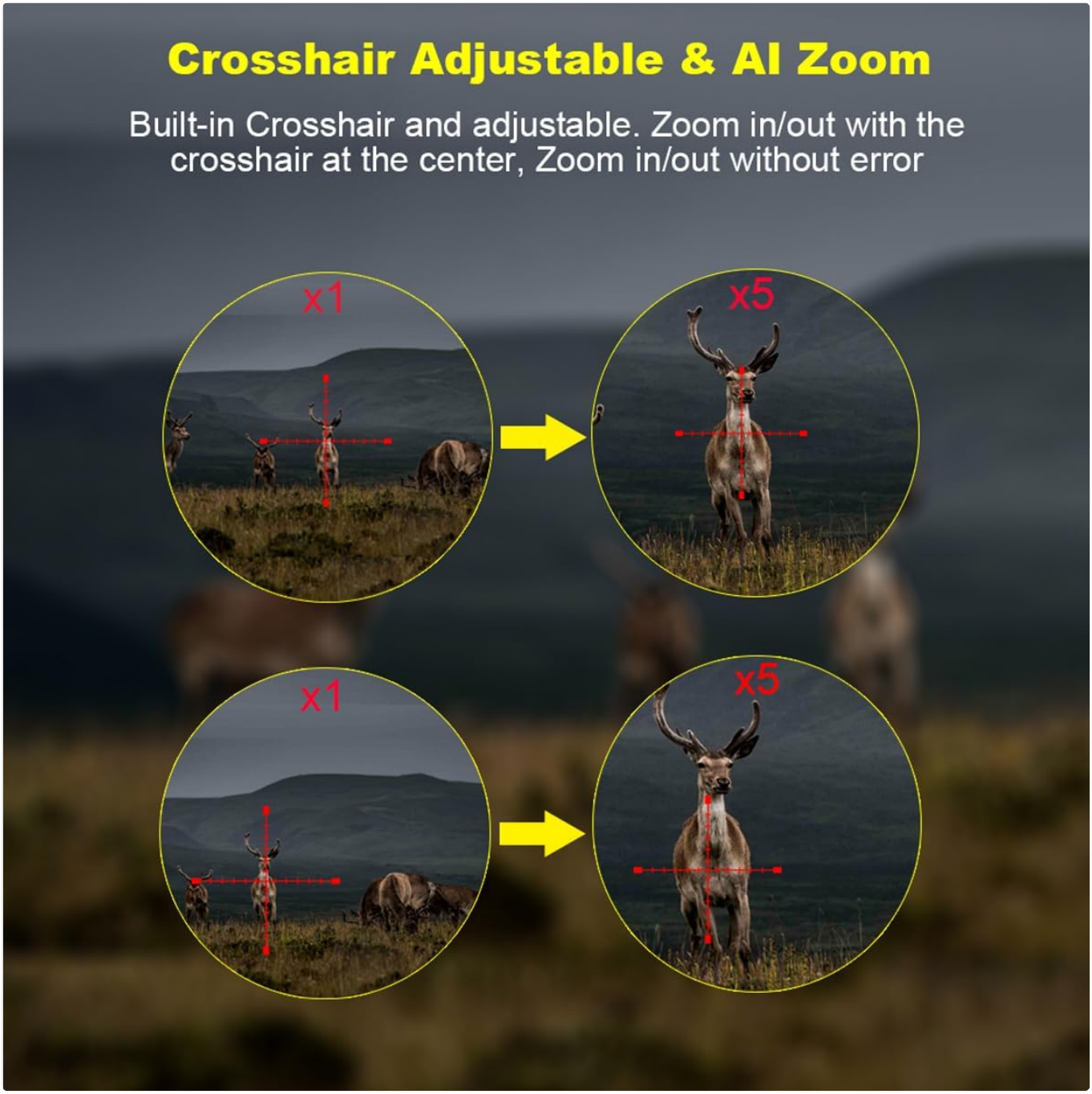
The monocular supports both day and night viewing modes. In daylight, the device provides full-color clarity. For night use, switch to black-and-white night vision mode. The device seamlessly transitions between these modes for optimized viewing conditions.



The monocular offers distinct viewing experiences for day (color) and night (black-and-white) conditions.

Zoom Functionality

The monocular features 4X optical zoom and 4X digital zoom. Use the designated zoom buttons to adjust magnification. The digital zoom function allows for closer inspection of distant subjects, with the crosshair remaining centered during zoom operations.



The AI zoom feature ensures the crosshair remains centered as you adjust magnification, providing precise targeting.

Recording Photos and Videos

To capture images or record video, press the dedicated photo/video button. The device records in HD 1080P resolution and saves files directly to the installed 32GB TF card. Ensure sufficient storage space before recording.

Crosshair Adjustment

The monocular includes an adjustable crosshair. Refer to the specific button layout for your model to adjust the crosshair's position (up/down, left/right). Quick, multiple presses of the adjustment buttons may be required to see movement.

IR Illuminator

The built-in 850nm IR illuminator enhances visibility in complete darkness, allowing detection of objects up to 400 yards. Activate the IR illuminator as needed for improved night vision performance.



The high-power IR illuminator provides clear views of targets up to 400 meters in complete darkness.

Maintenance

Cleaning the Optics

Use a soft, lint-free cloth specifically designed for optical lenses to clean the objective lens and eyepiece. Avoid using abrasive materials or harsh chemicals that could scratch or damage the coatings. For stubborn dirt, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens.

Battery Care and Charging

Always use a compatible charger for your 18650 battery. Do not overcharge or completely drain the battery. If the device will not be used for an extended period, remove the battery to prevent leakage and damage. The monocular features a USB 3 port for charging the battery while it is inside the device.

Storage

Store the monocular in a cool, dry place away from direct sunlight and extreme temperatures. Use the original packaging or a protective case to prevent dust accumulation and physical damage.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Battery not installed, low battery, incorrect battery type.	Ensure a charged 3.7V 18650 battery is correctly installed. Charge the battery if low.
Blurry or unclear image	Improper focus, dirty lenses.	Adjust objective and eyepiece focus rings. Clean lenses with an optical cleaning cloth.
Crosshair not moving/adjusting	Incorrect button usage.	Press the adjustment buttons quickly and multiple times to initiate movement. Refer to the specific button functions in the operating instructions.
Short battery life	Battery capacity too low, frequent IR illuminator use.	Use recommended 2600mAh or 3400mAh 18650 batteries. Reduce continuous IR illuminator usage when not necessary.
Cannot record photos/videos	TF card full, TF card not installed correctly, TF card corrupted.	Check TF card storage, reinsert TF card, or try formatting/replacing the TF card.

Specifications

Feature	Detail
Brand	KOLINLOV
Model Name	Night Vision Monocular
Item Model Number	5th
Color	Black
Material	Aluminum
Item Weight	14.7 ounces
Product Dimensions	7.87 x 2.75 x 3.74 inches
Magnification Maximum	4 x (Optical) & 4x (Digital)
Objective Lens Diameter	37 Millimeters
IR Illuminator	850nm
CMOS Sensor	1920x1080
Viewing Range (Night)	Up to 400 yards
Viewing Range (Day)	Up to 1100 yards
Recording Resolution	HD 1080P
Storage	32GB TF Card (included)
Compatible Devices	Rifle
Mounting Type	Picatinny Mount, Weaver Mount

Feature	Detail
Reticle Type	Crosshair
UPC	081904618256

Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact KOLINLOV customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Can you provide a description of the button functions for the KOLINLOV 5th Digital Night Vision Monocular?

While a physical diagram image cannot be displayed directly in this text response, the following is a breakdown of the button functions for the KOLINLOV 5th Digital Night Vision Monocular based on the manual:...

Read full answer

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