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> RIX LEAP L3R Thermal Riflescope User Manual

RIX LEAP L3R

RIX LEAP L3R Thermal Riflescope User Manual

Model: LEAP L3R | Brand: RIX

INTRODUCTION

Thank you for choosing the RIX LEAP L3R Thermal Riflescope. This manual provides essential information for the proper setup, operation, and maintenance of your device. Please read it thoroughly before use to ensure optimal performance and safety.

PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- LEAP L3R Thermal Scope

PRODUCT OVERVIEW AND FEATURES

The RIX LEAP L3R Thermal Riflescope is designed for precision and reliability in various environmental conditions. Key features include:

- **0.35 MOA Precision:** Achieve exceptional accuracy with a fine reticle delivering 0.35 MOA (0.37" @100 yards). Powered by an AI-enhanced processor, the LEAP L3R ensures sharp, detailed imaging for precise zeroing and confident long-range shots.
- **Built-In Laser Rangefinder:** The lens-integrated LRF aligns the laser and optical axes perfectly for precise distance readings up to 1,312 yards. Combined with the built-in ballistic calculator, it delivers real-time data for faster and more accurate long-range shooting.
- **Thermal Imaging 384×288 / NETD <20mK:** The LEAP L3R is equipped with a thermal sensor featuring a resolution of 384×288 and NETD<20 mK, enabling highly detailed and sensitive thermal detection. This configuration allows for the reliable identification of subtle temperature variations, ensures clear and precise imaging, and supports confident target recognition in challenging environmental conditions such as fog, rain, snow, and high humidity.
- **Smooth Optical Zoom:** Experience continuous optical zoom with crystal-clear magnification and zero lag. Even at 3× optical zoom, the reticle and targets remain sharp and detailed for precise follow-up shots.
- **Enhanced RET Digital Zoom:** Go beyond optical limits with RET pixel-doubling technology, maintaining clarity and detail even after digital zoom. Track and engage targets effectively at long distances.
- **Wider Eye Box & Extended Eye Relief:** The redesigned eyepiece provides a 30% larger eye box, reduced distortion,

and extended eye relief. Quickly shoulder your rifle and maintain a full, sharp image — even with imperfect alignment.

- **Intuitive Controls:** Three large knobs and two oversized buttons provide fast, precise, and intuitive adjustments, even when wearing gloves or operating in low-light conditions. Smooth zeroing requires no reverse rotation — simply twist to achieve accurate control.



Figure 1: RIX LEAP L3R Thermal Riflescope, showing its compact and ergonomic design.



Figure 2: Visual representation of key performance features including improved NETD, built-in rangefinder, 0.35 MOA precision, and AI-powered processing.

SHARPER VISION, SMARTER PERFORMANCE — LEAP R TAKES EVERY SHOT TO THE NEXT LEVEL

- Improved NETD: $<25\text{mK}$ \rightarrow $<20\text{mK}$
- Integrated Laser Rangefinder
- Accuracy Enhanced: up to 0.35 MOA
- AI-Powered Processing Chip
- Upgraded Eyepiece Visuals

WIDER EYE BOX

30%↑



BUILT-IN RANGEFINDER

1312yd



0.35 MOA PRECISION



NETD $<20\text{mK}$

20%↑



AI-ENHANCED IMAGING

Ai



Figure 3: Comparison of 1x optical zoom versus 3x optical zoom, demonstrating continuous optical zoom without pixelation.

STAY CLEAR IN TOUGH ENVIRONMENT

The LEAP L3R features advanced thermal sensors with a NETD<20mK, capable of detecting the smallest temperature differences. Paired with an F0.9 lens that increases light intake by 20%, these devices deliver clear, detailed images even in challenging high-humidity environments such as rain or snow.

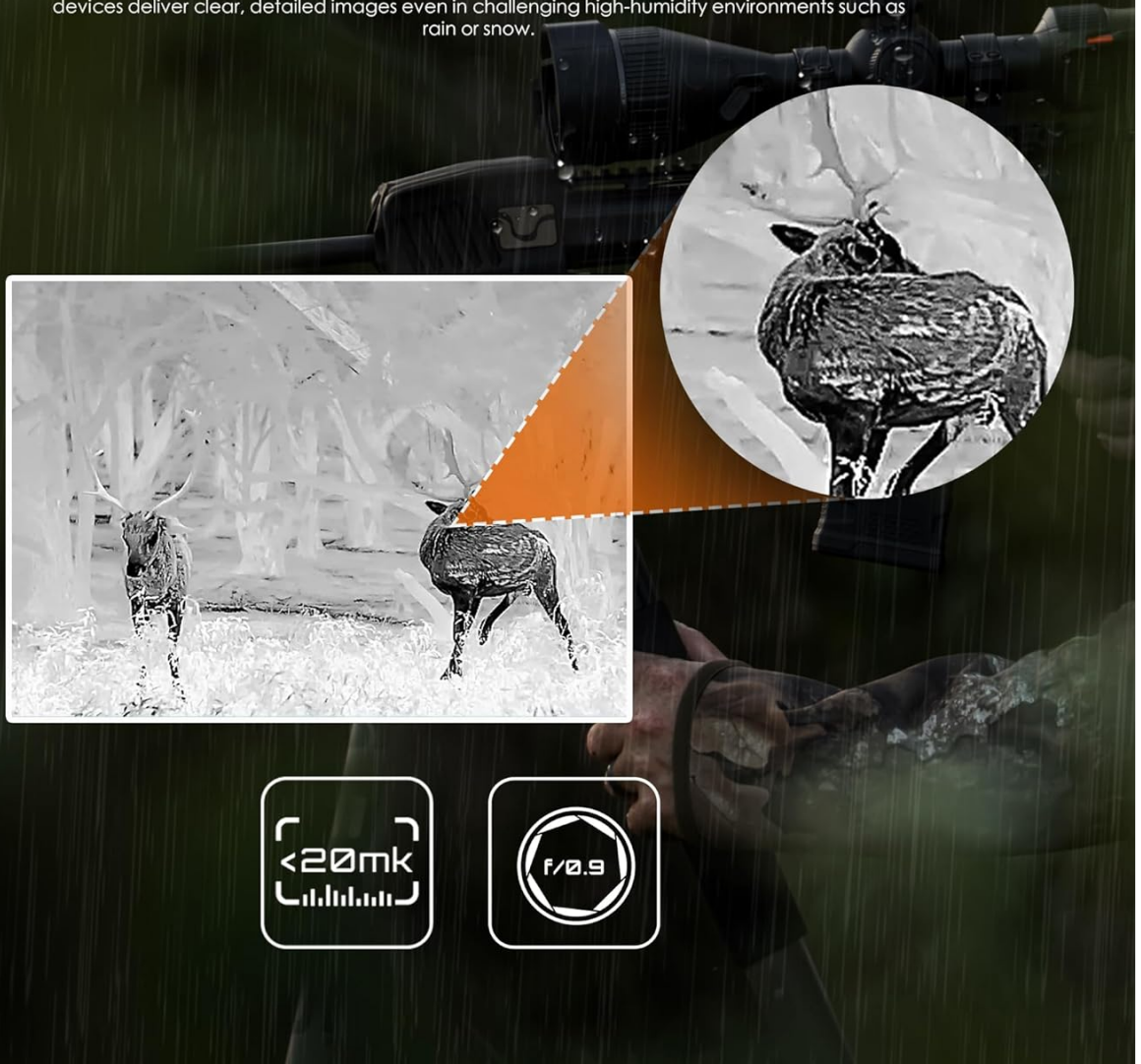


Figure 4: The integrated laser rangefinder providing precise distance measurements up to 1312 yards.

BUILT-IN LRF

The LEAP L3R features a built-in laser rangefinder (LRF) integrated directly into the lens system, aligning the laser axis closely with the optical axis to maximize ranging accuracy up to 1,200 meters. By downsizing and optimizing the LRF module, we ensure precise distance measurement with minimal impact on image clarity. Additionally, the rangefinder includes a ballistic calculator function that delivers real-time data, enabling faster and more accurate shot adjustments for improved performance in the field.

1312yd



Figure 5: Illustrating the 0.35 MOA precision for accurate targeting and ballistic adjustments.

REDEFINING PRECISION (0.35 MOA PRECISION)

LEAP L3R uses our latest-generation processor to deliver crisp, sharp 1280×720 HD imagery, and the higher resolution makes an impressive 0.35 MOA accuracy possible in a thermal sight.



Figure 6: Comparison of a larger exit pupil for a wider eye box and extended eye relief, enhancing user comfort and target acquisition.

SETUP

1. Battery Installation

The LEAP L3R uses 18650 rechargeable batteries. Ensure batteries are fully charged before installation. Insert the battery into the designated compartment, observing correct polarity. Secure the battery cap firmly.

2. Mounting the Riflescope

Attach the riflescope to your firearm's Picatinny rail using appropriate mounts (not included). Ensure the mount is securely fastened and the riflescope is aligned correctly for optimal eye relief and field of view. Refer to your mount's instructions for specific installation procedures.

3. Initial Power On and Focus

Press and hold the power button to turn on the device. Adjust the diopter to achieve a sharp image of the reticle. Then, adjust the objective lens focus ring to bring the target into clear focus.

OPERATING INSTRUCTIONS

1. Power On/Off and Standby

- **Power On:** Press and hold the power button until the RIX logo appears.
- **Standby:** Briefly press the power button to enter standby mode. Press again to exit standby.
- **Power Off:** Press and hold the power button for 3 seconds until the shutdown prompt appears, then confirm.

2. Adjusting Zoom

Use the dedicated zoom buttons or rotary knob to adjust the optical and digital magnification. The LEAP L3R offers smooth continuous optical zoom and enhanced digital zoom with RET pixel-doubling technology.

3. Using the Laser Rangefinder (LRF)

Activate the LRF function via the menu or a dedicated button. Aim the reticle at your target and press the LRF button to obtain a precise distance reading. The built-in ballistic calculator will use this data for real-time adjustments.

4. Menu Navigation and Settings

Navigate through the device menu using the intuitive control knobs and buttons. Adjust settings such as color palettes, reticle type, brightness, contrast, and other advanced features to customize your viewing experience.

5. Wi-Fi Integration with RIX+ App

The built-in Wi-Fi module allows seamless connection to your Android or iOS smartphone via the RIX+ app. This enables wireless software updates and live streaming of images directly to your mobile device. Refer to the RIX+ app instructions for detailed connectivity and control.

MAINTENANCE

- **Cleaning:** Use a soft, lint-free cloth to clean the lenses and exterior surfaces. For stubborn dirt, use a lens cleaning solution specifically designed for optics. Avoid abrasive materials.
- **Storage:** Store the riflescope in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the lens caps are on to protect the optics.
- **Battery Care:** Remove batteries if the device will not be used for an extended period. Store batteries in a cool, dry place.

TROUBLESHOOTING

- **Device not powering on:** Ensure batteries are correctly installed and fully charged. Check battery contacts for corrosion.
- **Image blurry or out of focus:** Adjust the diopter for reticle sharpness and the objective lens for target focus.
- **LRF not providing readings:** Ensure the LRF aperture is clear and unobstructed. Verify the target is within the LRF's effective range.
- **Wi-Fi connectivity issues:** Ensure the RIX+ app is updated to the latest version. Check your smartphone's Wi-Fi settings and ensure it's connected to the riflescope's network.

SPECIFICATIONS

Feature	Detail
Brand	RIX
Model Name	LEAP L3R

Feature	Detail
Color	Black
Style	L3R 384x288 with LRF
Product Dimensions	14.2"L x 3.5"W x 3"H
Item Weight	2.4 Pounds
Material	Aluminum
Magnification Minimum	3 x
Compatible Devices	Rifle
Thread Type	1/4"-20 UNC
Reticle Type	Duplex
Manufacturer	Visir Inc.

WARRANTY AND SUPPORT

The RIX LEAP L3R Thermal Riflescope comes with a **5 Year Manufacturer Warranty**. For warranty claims, technical support, or any inquiries, please contact RIX customer service through their official channels. Keep your proof of purchase for warranty validation.