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› Leupold Mark 5HD Riflescope Instruction Manual

Leupold 176448

Leupold Mark 5HD Riflescope Instruction Manual

Model: 176448 | Brand: Leupold

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Leupold Mark 5HD 5-25x56mm M1C3 FFP Side Focus Riflescope. Designed for precision and durability, this riflescope features a Twilight Max HD Light Management system, Front Focal Plane (FFP) reticle, and M1C3 turrets for superior performance in various conditions.



Figure 1: Leupold Mark 5HD 5-25x56mm Riflescope, showcasing its sleek black finish and robust design.

KEY FEATURES

- **Model #176448:** Mark 5HD 5-25x56mm Riflescope with an M1C3 Front Focal PR-1 MOA reticle and Matte finish.
- **Durability:** 100% Waterproof, fogproof, and shockproof construction ensures reliability in harsh environments.
- **M1C3 Turrets:** Features a 1/4 MOA dial with three revolutions of travel, a push-button ZeroLock, and a revolution indicator for precise adjustments.
- **Front Focal Plane (FFP):** The reticle magnifies along with the image, allowing for accurate range estimation at all magnification settings.
- **Twilight Max HD Light Management System:** Enhances low-light performance by adding up to 30 minutes of shooting light, provides best-in-class glare reduction, and ensures edge-to-edge HD lens clarity.



Figure 2: Diagram highlighting key features including scratch-resistant lenses, high-speed power selector, 5:1 zoom ratio, 35mm maintube, and light transmission capabilities.

SETUP

Unboxing and Initial Inspection

Upon receiving your Leupold Mark 5HD riflescope, carefully open the packaging and inspect all contents. The box should contain the riflescope, a sun shade, front and rear scope caps, a battery for the illuminated reticle (if applicable to your model), an Allen wrench, and this owner's manual.

Your browser does not support the video tag.

Video 1: Official Leupold Mark 5HD 5-25x56mm Riflescope overview, demonstrating its features and components.

Mounting the Riflescope

The Mark 5HD is designed for use with cantilever mounts. Ensure your mount is securely attached to your rifle's rail system. Place the riflescope into the mount rings, ensuring proper eye relief and reticle alignment before tightening the rings. Refer to your mount's specific instructions for torque specifications.

Attaching Accessories

- **Sun Shade:** Screw the sun shade onto the objective lens end of the riflescope to reduce glare.
- **Scope Caps:** Attach the flip-up scope caps to both the objective and eyepiece lenses for protection when not in use.
- **Battery Installation:** If your model features an illuminated reticle, install the provided battery into the illumination control knob located on the side parallax turret.

OPERATING THE RIFLESCOPE

Magnification Adjustment

The riflescope features a 5-25x magnification range. Rotate the power selector ring, located near the eyepiece, to adjust the magnification. The integrated throw lever allows for quick and easy changes. Since this is a Front Focal Plane (FFP) reticle, the reticle size will change proportionally with the magnification, ensuring accurate subtensions at all power settings.



Figure 5: A shooter demonstrating the use of the Leupold Mark 5HD riflescope in a prone position, highlighting its practical application.

Parallax Adjustment

The side focus parallax adjustment knob is located on the left side of the riflescope. Rotate this knob to bring the target and reticle into the same focal plane, eliminating parallax error. Adjust until the image is crisp and clear at your desired range.

Elevation and Windage Turrets (M1C3)

The M1C3 turrets provide precise 1/4 MOA adjustments. The elevation turret features three revolutions of travel, a push-button ZeroLock, and a revolution indicator. To make adjustments, simply rotate the turret. To set your zero, loosen the set screws on the turret, rotate the turret cap to your desired zero mark, and then re-tighten the set screws. The ZeroLock feature prevents accidental rotation from your established zero.

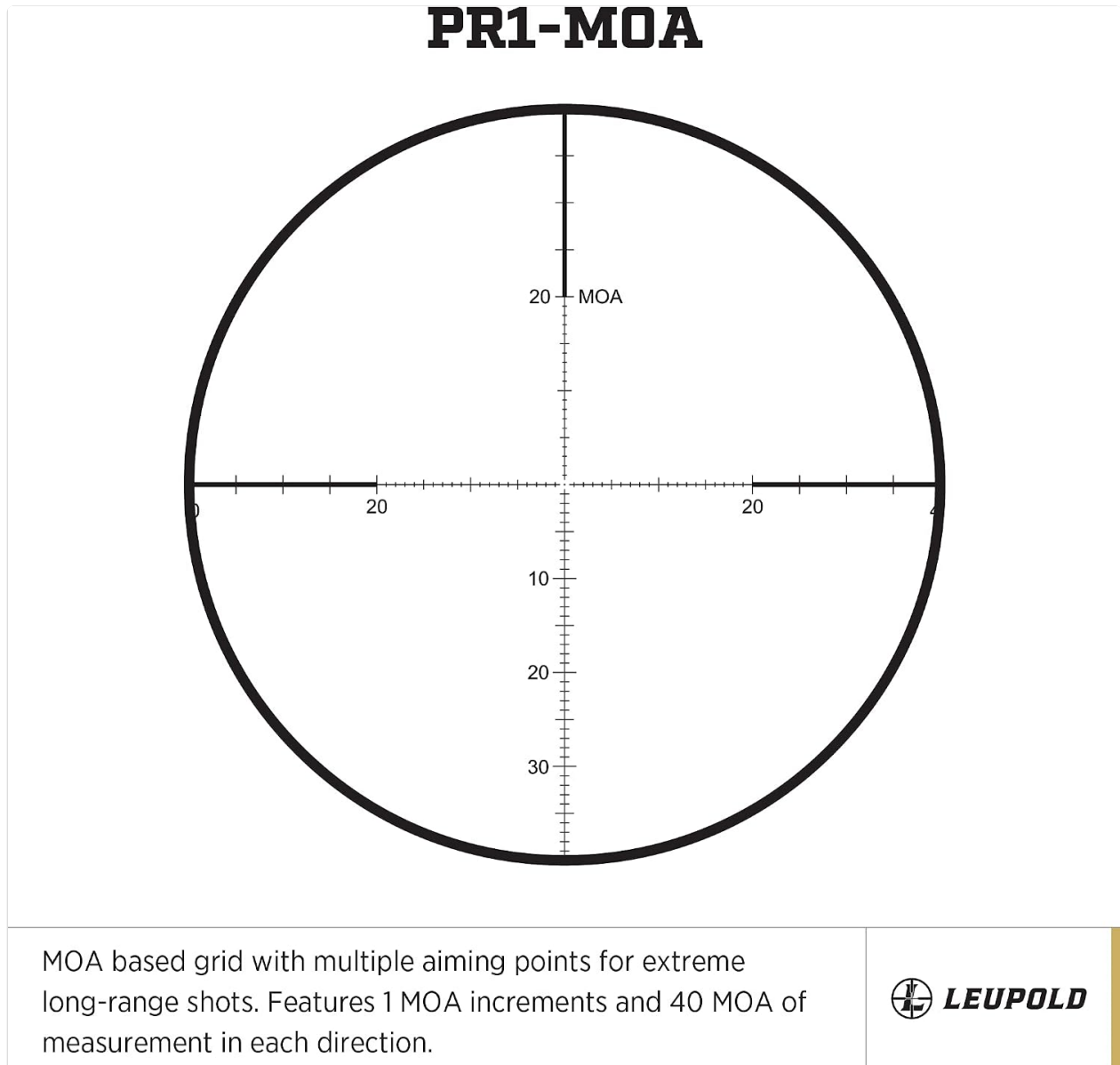


Figure 3: Close-up of the M1C3 Dial, showing the repeatable 3-turn ZeroLock dial for precise elevation adjustments. The windage turret is capped and requires an Allen key to reset its zero. Most long-range shooters utilize reticle holdovers for windage adjustments, making frequent turret adjustments less common for this setting.

PR1-MOA Reticle

The PR1-MOA reticle is a front focal plane (FFP) design, meaning its subtensions remain accurate across all magnification settings. It features an MOA-based grid with multiple aiming points, ideal for extreme long-range shots. The reticle has 1 MOA increments and 40 MOA of measurement in each direction.



Mark 5HD

5-25x56mm

MODEL# 176448



RETICLE	PR-1MOA	ADJUSTMENT RANGE MOA
FINISH	Matte Black	ELEVATION 120
WEIGHT	30 oz	WINDAGE 60
LENGTH	15.7 in	LINEAR FOV FT/100 YD
MAIN TUBE DIAMETER	35 mm	LOW 20.4
OBJECTIVE DIAMETER	56 mm	HIGH 4.2
ILLUMINATION	No	EYE RELIEF INCHES
CDS	No	LOW 3.6
SIDE FOCUS	Yes	HIGH 3.8
FOCAL PLANE	First	



Figure 4: Diagram illustrating the PR1-MOA reticle, designed for precise long-range shooting with clear MOA increments.

MAINTENANCE

Cleaning the Lenses

To clean the lenses, first use a lens brush or compressed air to remove any loose dust or debris. Then, apply a small amount of lens cleaning solution to a microfiber cloth and gently wipe the lens surface in a circular motion. Avoid using harsh chemicals or abrasive materials that could damage the lens coatings.

Waterproof and Fogproof Care

Your Leupold Mark 5HD riflescope is 100% waterproof and fogproof. While designed to withstand harsh conditions, avoid unnecessary submersion or extreme temperature changes that could stress the seals. If the scope becomes wet, wipe it dry with a clean cloth before storing.

TROUBLESHOOTING

If you encounter any issues with your Leupold Mark 5HD riflescope, please refer to the following common troubleshooting steps:

- **Blurred Image:** Ensure the parallax adjustment is correctly set for your target distance and that the

eyepiece is properly focused for your eye.

- **Reticle Not Illuminating:** Check if the battery is correctly installed and has sufficient charge. Replace the battery if necessary.
- **Inaccurate Adjustments:** Verify that the turret caps are securely tightened (for windage) and that the ZeroLock mechanism is properly engaged (for elevation). Ensure mounting rings are torqued to specification.

For persistent issues, please contact Leupold customer support or refer to the official Leupold website for further assistance.

SPECIFICATIONS

Feature	Specification
Brand	Leupold
Model Name	176448
Magnification (Min-Max)	5x - 25x
Objective Lens Diameter	56 Millimeters
Reticle Type	PR1-MOA (Front Focal Plane)
Turrets	M1C3 (1/4 MOA clicks, ZeroLock, Revolution Indicator)
Elevation Adjustment Range	120 MOA
Windage Adjustment Range	60 MOA
Main Tube Diameter	35 mm
Item Weight	2.86 Pounds
Material	Aluminum
Waterproof/Fogproof	100% Yes
Eye Relief (Low-High)	3.6 - 3.8 inches



Figure 5: Detailed specifications for the Mark 5HD 5-25x56mm riflescope, including reticle, finish, weight, and adjustment ranges.

WARRANTY AND SUPPORT

Leupold stands behind its products with a comprehensive Full Lifetime Guarantee. If your Leupold riflescope, binocular, or spotting scope doesn't perform as expected, Leupold will repair or replace it for free. This guarantee applies whether you are the original owner or not, and no proof of ownership or warranty card is required. There is no time limit on this guarantee, reflecting Leupold's confidence in the superior quality and craftsmanship of their products.

For support, please visit the official Leupold website or contact their customer service department directly.