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Vector Optics Minotaur 12-60x60 Gen II MFL

VECTOR OPTICS Minotaur 12-60x60 Gen II MFL Riflescope

Instruction Manual

1. Introduction

Thank you for choosing the VECTOR OPTICS Minotaur 12-60x60 Gen II MFL Riflescope. This precision optical instrument is designed for superior performance and reliability. This manual provides essential information for the proper setup, operation, and maintenance of your riflescope to ensure optimal performance and longevity.

Package Contents:

- 1 x Minotaur 12-60x60 MFL SFP Riflescope
- 2 x 34mm Picatinny High Profile Mount Rings
- 1 x Lens Cover
- 1 x Sunshade
- 1 x Cleaning Cloth



Image 1.1: The Vector Optics Minotaur 12-60x60 Gen II MFL Riflescope, showing its overall design and main components.

2. Setup

2.1 Mounting the Riflescope

Use the included 34mm Picatinny high profile mount rings to securely attach the riflescope to your firearm. Ensure the rings are properly aligned and tightened according to your firearm's specifications to prevent movement and maintain zero.



Image 2.1: The two 34mm Picatinny high profile mount rings included with the riflescope, designed for secure attachment.

2.2 Battery Installation

The reticle illumination requires one CR2032 battery (not included). Locate the battery compartment, typically on the side focus turret. Unscrew the cap, insert the CR2032 battery with the positive (+) side facing outwards, and securely replace the cap.

2.3 Diopter Adjustment

The fast-focus eyepiece allows for diopter compensation from +2 to -2.0. To adjust, look through the scope at a plain, bright background (like a wall or the sky) and rotate the eyepiece until the reticle appears sharp and clear. This adjustment is crucial for your individual eyesight and should be done before focusing on a target.

3. Operating the Riflescope

3.1 Magnification Adjustment

The riflescope features a 12-60x magnification range with a true 5x zoom factor. Rotate the power ring located near the eyepiece to adjust the magnification to your desired level. The current magnification setting is indicated

by the numbers on the power ring.

3.2 Reticle Illumination

The etched glass fine MOA reticle features a red illuminated center dot (0.12 MOA). The illumination has 11 levels of brightness, including 1 NV (Night Vision) setting. Rotate the illumination dial, typically found on the side focus turret, to turn the illumination on/off and select the desired brightness level.

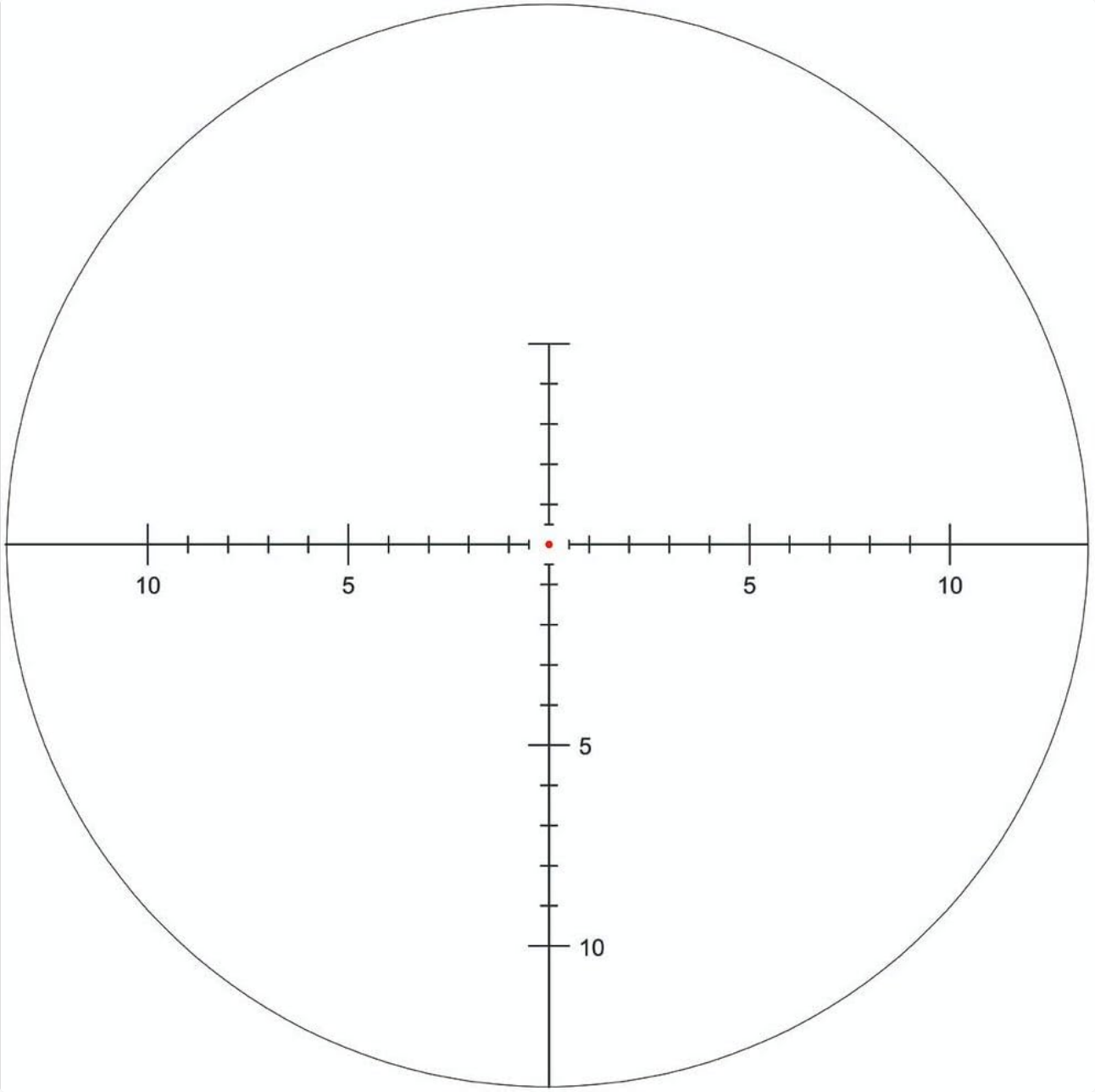

Image 3.1: The etched glass MOA VEMP-LR reticle with its illuminated center dot, as seen through the riflescope.

3.3 Windage and Elevation Adjustments

The riflescope features 1/8 MOA per click adjustments for both windage and elevation. The elevation turret includes a Zero-Stop feature, and the windage turret has a Turret Lock feature. To adjust, pull the turret to unlock (for windage) or rotate (for elevation), make your adjustments, and then press the windage turret back to lock it. Each click represents a precise change in the point of impact.



Image 3.2: A close-up view of the riflescope's elevation and windage turrets, showing the adjustment markings and the side focus dial.

3.4 Side Focus (Parallax Adjustment)

The side focus knob allows for parallax adjustment from 10 yards to infinite. Rotate the side focus knob until the target image appears sharp and clear, and the reticle does not appear to shift relative to the target when you move your head slightly. This ensures accurate aiming at various distances.

4. Maintenance

4.1 Cleaning the Lenses

Use the provided cleaning cloth or a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surfaces to remove dust and smudges. For stubborn marks, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens. Avoid using abrasive materials or harsh chemicals.

4.2 General Care and Storage

Your riflescope is O-ring sealed and nitrogen purged, ensuring water resistance and fog-proof performance. It is

also shockproof to 1000g. However, always store the riflescope in a dry, cool place, away from direct sunlight and extreme temperatures. Use the lens covers when not in use to protect the objective and ocular lenses. Avoid dropping or subjecting the scope to severe impacts.

5. Troubleshooting

5.1 Blurry Image

- **Check Diopter Adjustment:** Ensure the eyepiece diopter is correctly set for your vision (refer to Section 2.3).
- **Adjust Side Focus/Parallax:** For targets at varying distances, adjust the side focus knob until the image is clear and parallax is eliminated (refer to Section 3.4).
- **Clean Lenses:** Dirt or smudges on the lenses can cause blurriness. Clean them carefully (refer to Section 4.1).

5.2 Reticle Not Illuminating

- **Check Battery:** Ensure the CR2032 battery is correctly installed and not depleted. Replace if necessary (refer to Section 2.2).
- **Illumination Dial:** Verify the illumination dial is turned to an active brightness level and not in the 'off' position.

5.3 Point of Impact Shift

- **Mounting Security:** Ensure the riflescope is securely mounted to the firearm and the mount rings are properly tightened.
- **Turret Lock:** For the windage turret, ensure it is locked after adjustments to prevent accidental movement.
- **Environmental Factors:** Extreme temperature changes or recoil can sometimes affect zero. Re-zero the scope if necessary.

6. Specifications

The following table details the technical specifications of the Minotaur 12-60x60 Gen II MFL Riflescope:

Feature	Specification
Magnification	12-60x
Objective Lens Diameter	60mm
Tube Diameter	34mm
Adjustment Click Value	1/8 MOA
Reticle	Etched Glass MOA VEMP-LR
Illumination	Red, 10 levels plus 1 NV
Ocular Diameter	38mm (1.5 inch)
Ocular Length	55mm (2.2 inch)
Field of View	9.15-1.83 Feet @ 100 yards

Feature	Specification
Eye Relief	96-95mm (3.8-3.7 inch)
Exit Pupil	3.5-1.0mm
Side Focus	10 yds to infinite
Elevation Range	40 MOA
Windage Range	40 MOA
Lens Coating	Fully multicoated
Length	425mm (16.7 inch)
Weight	960g (33.9 ounce)
Finish	Black Matte
Battery	CR2032 (EXCLUDED)
Material	6061 T6 aircraft grade aluminum alloy
Shockproof	To 1000g
Water/Fog Proof	O-ring Sealed and Nitrogen Purged

7. Warranty and Support

The VECTOR OPTICS Minotaur 12-60x60 Gen II MFL Riflescope comes with a**5-year warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or any inquiries regarding your product, please contact Vector Optics customer service through their official website or authorized distributors. Please retain your proof of purchase for warranty validation.

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