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Monstrum Marauder 2-10x40 MPVO

Monstrum Marauder 2-10x40 MPVO Rifle Scope User Manual

Model: Marauder 2-10x40 MPVO with FMR01 Reticle

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Monstrum Marauder 2-10x40 MPVO Rifle Scope. Designed for versatility, this scope features a variable 2-10x magnification, a 40mm objective lens for enhanced light transmission, and an Adjustable Objective (AO) for precise focus and parallax elimination. It includes an illuminated FMR01 reticle and comes with 1-inch scope rings for mounting.



Image 1.1: The Monstrum Marauder 2-10x40 MPVO Rifle Scope, showcasing its overall design and included mounting rings.

2. SETUP AND MOUNTING

2.1 Mounting the Scope

The Monstrum Marauder 2-10x40 MPVO scope is designed for use with 1-inch diameter scope rings. Ensure your rifle is unloaded and pointed in a safe direction before beginning installation.

1. Attach the included 1-inch scope rings to your rifle's mounting rail, ensuring they are spaced appropriately for optimal eye relief.
2. Place the scope into the bottom halves of the rings.
3. Position the scope to achieve proper eye relief. This is the distance between your eye and the eyepiece when

looking through the scope, allowing for a full field of view without black rings.

4. Ensure the reticle is level. You can use a reticle leveling tool or a plumb bob for accuracy.
5. Install the top halves of the scope rings and tighten the screws evenly, following the manufacturer's recommended torque specifications to prevent damage to the scope tube.



Image 2.1: Detail of the hardened steel hardware for the scope rings, designed for secure mounting.

2.2 Diopter Adjustment

The diopter adjustment allows you to fine-tune the eyepiece focus to your individual eyesight, ensuring the reticle appears sharp and clear.

1. Point the scope at a plain, bright background (e.g., a clear sky or a blank wall).
2. Look through the scope and quickly glance away.
3. While quickly glancing back, adjust the diopter ring (located at the rear of the eyepiece) until the reticle appears perfectly sharp. Avoid staring through the scope for too long, as your eye may compensate for an out-of-focus reticle.

3. OPERATING THE SCOPE

3.1 Magnification Adjustment

The scope features a variable magnification from 2x to 10x. The magnification ring is located at the front of the eyepiece. Rotate this ring to increase or decrease the magnification. A custom throw lever is included for quick and tactile adjustments.



Image 3.1: The custom throw lever attached to the magnification ring, enabling rapid adjustments.

3.2 Adjustable Objective (AO) for Parallax and Focus

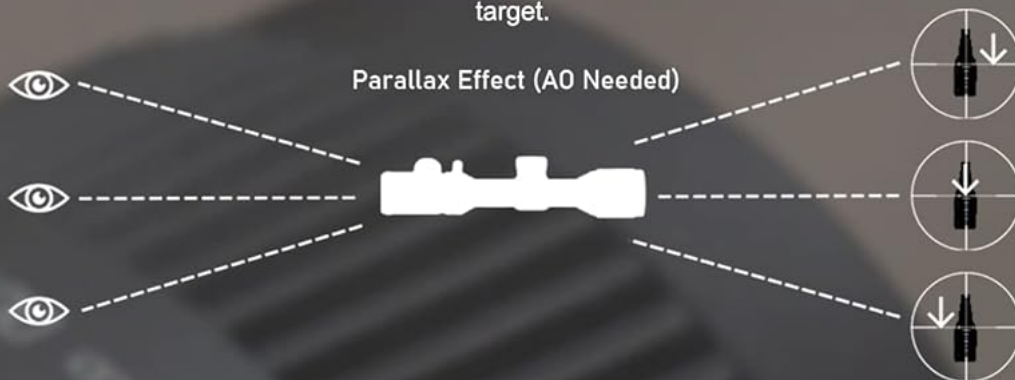
The Adjustable Objective (AO) lens, located at the front of the scope, allows for precise focusing of the target image and elimination of parallax. Parallax is the apparent shift in the reticle's position relative to the target when the shooter's eye moves. Proper AO adjustment ensures the target and reticle are on the same focal plane, eliminating parallax and sharpening the image.

WHAT IS PARALLAX?

In terms of shooting, parallax refers to the alignment of the shooter's eye in relation to the scope reticle and the target object. Unless properly focused, a shift in eye position will result in a shift in the position of the reticle relative to the target - the parallax effect. With a fixed objective lens scope (without AO), small shifts in eye position may result in imprecise targeting and less accurate shooting.

WHAT IS AO?

AO stands for adjustable objective (sometimes referred to as parallax adjustment). An AO scope allows you to adjust the objective lens of the scope, bringing the target image into focus with the plane of the reticle. When in focus with the plane of the reticle, the parallax effect is eliminated. An AO scope allows you to 1) bring your targets into sharper focus 2) eliminate parallax and 3) gather ranging information about your target.



HOW TO USE YOUR ADJUSTABLE OBJECTIVE TO ELIMINATE PARALLAX AND SHARPEN FOCUS:

The adjustable objective dial on your scope has a series of numbers alongside it. The numbers indicate the distance at which your target is in sharpest focus and parallax free.



When viewing a target, estimate the distance of the target and set the adjustable objective dial to the corresponding distance



200 YARDS



Looking through the scope, adjust the adjustable objective dial slightly to bring the target into sharpest focus. Once in sharp focus, the adjustable objective dial setting should approximate the range of the target and the scope should be parallax free.



IMPORTANT: When the adjustable objective dial setting on your scope differs significantly from the actual range of your target, the target may appear blurry and out of focus.

To use the AO:

1. Estimate the distance to your target.
2. Rotate the AO dial to the corresponding distance marking. The dial has numbers indicating distances (e.g., 10m, 20, 35, 50, 100, 200, ∞).
3. Look through the scope. If the image is not perfectly sharp, make small adjustments to the AO dial until the target image is in its sharpest focus.
4. To verify parallax elimination, move your head slightly while looking through the scope. If the reticle appears to move relative to the target, further fine-tune the AO dial. When parallax is eliminated, the reticle will remain stationary on the target regardless of slight head movements.

Important: If the AO dial setting differs significantly from the actual range of your target, the target may appear blurry and out of focus, and parallax will be present.



Image 3.3: The adjustable objective bell, showing distance markings for precise focus and parallax adjustment.

3.3 Reticle Illumination

The FMR01 reticle features illumination for improved visibility in low-light conditions. The illumination control is an inline dial located on the left side of the scope's main tube. Rotate the dial to turn the illumination on and adjust its brightness level. The reticle offers both red and green illumination options.

3.4 Windage and Elevation Adjustments

The scope features capped windage and elevation turrets, located on the top and right side of the main tube, respectively. Each click of the turret adjusts the point of impact by 1/4 MOA (Minute of Angle).

1. Remove the turret caps.
2. To adjust the point of impact, rotate the turrets. Follow the directional arrows (UP/DOWN for elevation, L/R for windage).
3. After making adjustments, replace the turret caps to protect the mechanisms.



Image 3.4: The adjustment turrets, indicating 1/4 MOA per click for precise windage and elevation changes.

4. FMR01 RETICLE INFORMATION

The Monstrum Marauder 2-10x40 MPVO scope features the FMR01 reticle, a Second Focal Plane (SFP) design. In an SFP reticle, the reticle size remains constant regardless of magnification. This means that the subtensions (the measured distances between reticle marks) are only accurate at a specific magnification, typically the highest magnification (10x) for this scope.

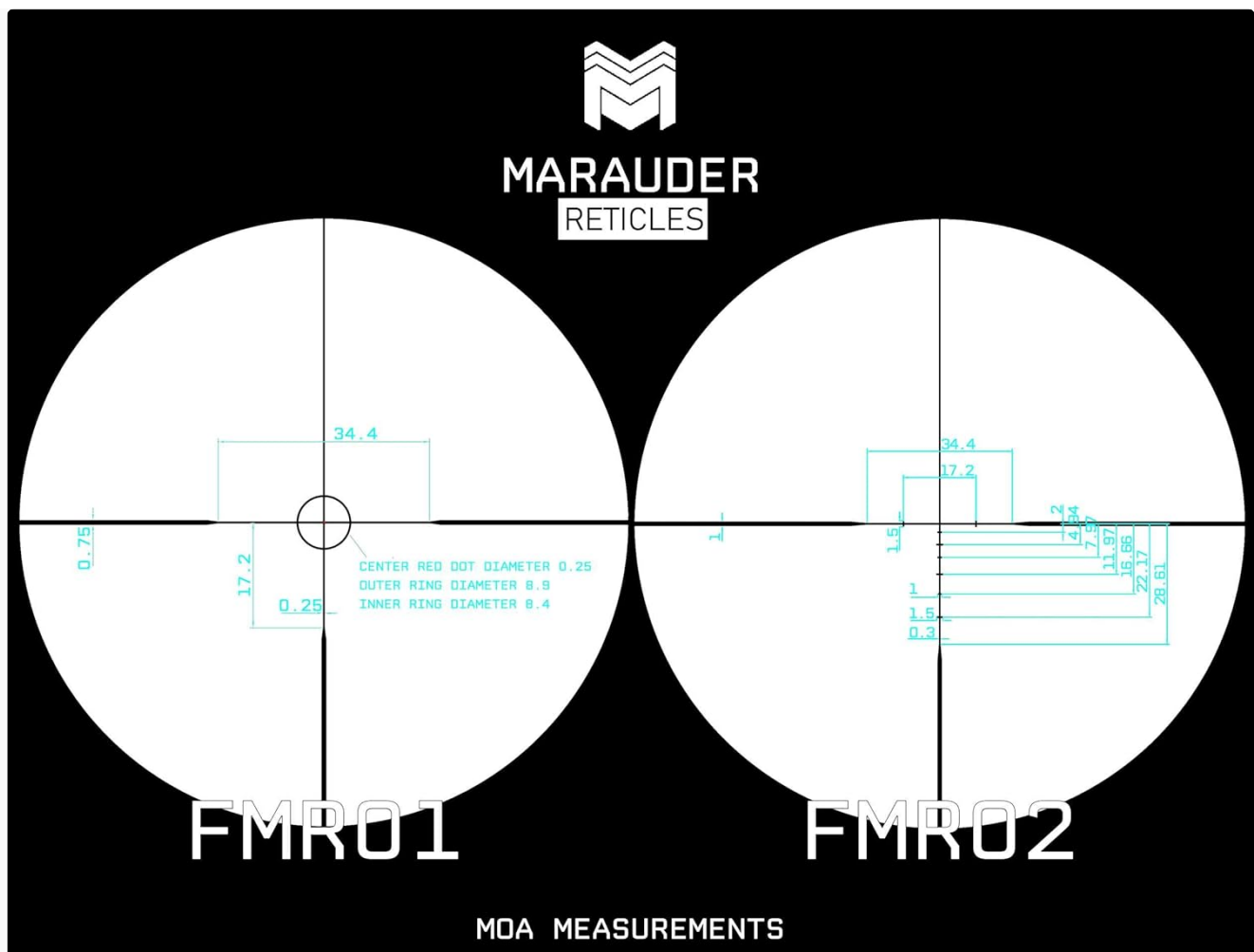


Image 4.1: Detailed diagram of the FMR01 reticle, showing its design and MOA measurements. Refer to this diagram for precise subtension values.

The FMR01 reticle provides a clean sight picture with a central aiming point and holdover marks for bullet drop compensation. Familiarize yourself with the specific MOA measurements provided in the reticle diagram (Image 4.1) to effectively utilize its ranging and holdover capabilities at the designated magnification.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your scope.

- **Cleaning Lenses:** Use a soft, lint-free cloth or a lens pen specifically designed for optical lenses. Gently wipe away dust and debris. For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
- **Cleaning Exterior:** Wipe the exterior of the scope with a soft, damp cloth. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the scope in a cool, dry place, preferably in its original packaging or a protective case, away from direct sunlight and extreme temperatures. Ensure all caps are on the turrets and lenses.
- **Battery Replacement:** If the reticle illumination dims or stops working, replace the battery. Refer to the battery compartment for the correct battery type and orientation.

6. TROUBLESHOOTING

If you encounter issues with your Monstrum Marauder scope, refer to the following common problems and solutions:

- **Blurry Image:**

- Adjust the diopter for reticle sharpness (Section 2.2).
- Adjust the Adjustable Objective (AO) for target focus and parallax elimination (Section 3.2).

- **Reticle Not Illuminating:**

- Check if the illumination dial is turned on.
- Replace the battery (refer to Section 5 for battery replacement).

- **Point of Impact Shift:**

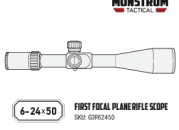


- Ensure scope rings are securely tightened to the recommended torque.
- Verify that the scope is not damaged.

7. SPECIFICATIONS

Feature	Specification
Magnification	2-10x
Objective Lens Diameter	40mm
Reticle Type	FMR01 (Second Focal Plane)
Reticle Illumination	Yes (Red/Green)
Adjustable Objective (AO)	Yes
Tube Diameter	1 inch
Click Value	1/4 MOA
Color	Black
Model Number	SXA21040B-FMR01
Item Package Dimensions	15.98 x 3.58 x 3.11 inches
Package Weight	0.88 Kilograms

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Monstrum website or contact Monstrum customer service directly. Keep your proof of purchase for any warranty claims.

 <p>MONSTRUM 1-6x24 FIRST FOCAL PLANE RIFLE SCOPE SKU: G2-FFPS1624</p>	<p>Monstrum G2-FFPS1624 1-6x24 First Focal Plane Rifle Scope User Manual</p> <p>Comprehensive user manual for the Monstrum G2-FFPS1624 1-6x24 First Focal Plane Rifle Scope. Learn about features, package contents, mounting, focusing, sighting, reticle details, and warranty information.</p>
 <p>MONSTRUM TACTICAL 6-24x50 FIRST FOCAL PLANE RIFLE SCOPE SKU: G3F62450</p>	<p>Monstrum Tactical G3F62450 6-24x50mm First Focal Plane Rifle Scope User Manual</p> <p>Detailed user manual for the Monstrum Tactical G3F62450 6-24x50mm First Focal Plane Rifle Scope. Covers features, package contents, mounting instructions, focusing, adjustable objective (AO) usage, sighting in, reticle details, illumination, sunshade attachment, and warranty information.</p>
 <p>MONSTRUM 1-6x24 FIRST FOCAL PLANE RIFLE SCOPE SKU: G2-FFPS1624</p>	<p>Monstrum G2-FFPS1624 1-6x24 First Focal Plane Rifle Scope User Manual</p> <p>Comprehensive user manual for the Monstrum G2-FFPS1624 1-6x24 First Focal Plane Rifle Scope. Learn about features, package contents, mounting, focusing, sighting, reticle details, and warranty information.</p>
 <p>Thermion 2 LRF XL60/XP60/XG60 naudotojo vadovas</p>	<p>Pulsar Thermion 2 LRF XL60/XP60/XG60 Naudotojo Vadovas</p> <p>Išsamus vadovas, skirtas Pulsar Thermion 2 LRF XL60, XP60 ir XG60 termovizoriniams optiniams taikikliams. Apima specifikacijas, funkcijas, naudojimo instrukcijas, priežiūrą ir trikčių šalinimą.</p>
 <p>BARNETT 2-7x36mm CROSSBOW SCOPE USER MANUAL</p>	<p>Barnett 2-7x36mm Crossbow Scope User Manual</p> <p>Comprehensive instructions for the Barnett 2-7x36mm Crossbow Scope, covering setup, zeroing, adjustments, and safety precautions. Includes details on illuminated reticles and battery usage.</p>
 <p>LEVENHUK ARMY BINOCULARS WITH RETICLE levenhuk</p>	<p>Levenhuk Army Binoculars with Reticle User Manual</p> <p>Comprehensive user manual for Levenhuk Army Binoculars with Reticle. Learn about features, specifications, using the rangefinder reticle for distance and size calculations, care and maintenance, battery safety, and warranty information.</p>