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› Vector Optics Sentinel-X 10-40x50 SFP Riflescope User Manual

Vector Optics Sentinel-X 10-40x50 SFP (SCOL-34)

Vector Optics Sentinel-X 10-40x50 SFP Riflescope User Manual

Model: Sentinel-X 10-40x50 SFP (SCOL-34)

1. INTRODUCTION

Thank you for choosing the Vector Optics Sentinel-X 10-40x50 SFP Riflescope. This manual provides detailed instructions for the proper setup, operation, and maintenance of your riflescope to ensure optimal performance and longevity. Please read this manual thoroughly before using the product.

2. PRODUCT OVERVIEW

The Sentinel-X 10-40x50 SFP Riflescope is designed for precision shooting, particularly for air guns and .22LR rimfire benchrest shooting at 25 meters. It features a 10-40x magnification range, a 50mm objective lens, and a 30mm monotube for enhanced durability and light transmission. The etched glass COM-25M reticle is specifically designed to match standard benchrest shooting targets.

Key Features:

- **Magnification:** 10-40x variable power.
- **Objective Lens Diameter:** 50mm for bright, clear images.
- **Tube Diameter:** 30mm monotube construction.
- **Reticle:** Etched glass COM-25M, optimized for 25-meter benchrest targets.
- **Adjustment:** 1/8 MOA windage and elevation adjustments with a turret lock system.
- **Side Focus:** Parallax adjustment starting from 10 yards.
- **Eyepiece:** Fast-focus eyepiece for quick reticle focusing.
- **Durability:** O-ring sealed, nitrogen purged for water and fog proof performance, shockproof up to 750g.



Figure 1: Overall view of the Vector Optics Sentinel-X 10-40x50 SFP Riflescope.



Figure 2: Close-up view of the windage, elevation, and side focus turrets.

3. SPECIFICATIONS

Feature	Specification
Magnification	10-40x
Objective Lens Diameter	50mm
Tube Diameter	30mm
Adjustment Click Value	1/8 MOA
Reticle	Etched glass COM-25M
Eye Relief	92-85mm (3.6-3.3 inch)

Feature	Specification
Exit Pupil	5.0-1.25mm
Elevation Range	50 MOA
Windage Range	50 MOA
Lens Coating	Fully multicoated
Length	405mm (16 inch)
Weight	750g (26.5 ounce)
Finish	Matte Black
Material	6061 T6 aircraft grade aluminum alloy, glass
Shockproof	Up to 750g
Water/Fog Proof	O-ring sealed, Nitrogen purged
Side Focus Markings	25, 50, 100, and infinite

4. SETUP

4.1 Mounting the Riflescope

The Sentinel-X riflescope comes with 30mm weaver mount rings (or dovetail mount rings on request). Ensure your rifle has a compatible mounting rail. Securely attach the rings to the rail, then place the riflescope into the rings. Adjust the scope's position for proper eye relief before tightening the ring screws. Ensure the reticle is level with the rifle.

4.2 Diopter Adjustment

The fast-focus eyepiece allows for quick and easy reticle focusing. To adjust the diopter, look through the scope at a plain, bright background (like the sky or a blank wall). Rotate the eyepiece until the reticle appears sharp and clear to your eye. This adjustment compensates for individual eyesight differences and ensures the reticle is in sharp focus.

5. OPERATING INSTRUCTIONS

5.1 Magnification Adjustment

Rotate the power ring located near the eyepiece to change the magnification from 10x to 40x. Adjust to your desired magnification level based on target distance and shooting conditions.

5.2 Side Focus (Parallax) Adjustment

The side focus turret, located on the left side of the scope, adjusts for parallax error. Rotate the side focus knob until the target appears sharp and clear, and the reticle does not appear to shift relative to the target when you move your head slightly. The side focus starts at 10 yards and has markings for 25, 50, 100, and infinite.

5.3 Windage and Elevation Adjustments

The windage (horizontal) and elevation (vertical) turrets are located on the top and right side of the scope, respectively. Each click adjusts the point of impact by 1/8 MOA. To make an adjustment, **pull the turret knob up** to unlock it, make the desired clicks, and then **press the turret knob down** to lock it in place. This turret lock feature prevents accidental adjustments.

5.4 Reticle Usage (COM-25M)

The etched glass COM-25M reticle is designed for precision benchrest shooting at 25 meters. When used at 40x power, the 1.5mm center dot perfectly matches a 2mm diameter bull-eye target. Each graduation on the horizontal line of the reticle coincides with all target rings, aiding in precise aiming and holdovers.

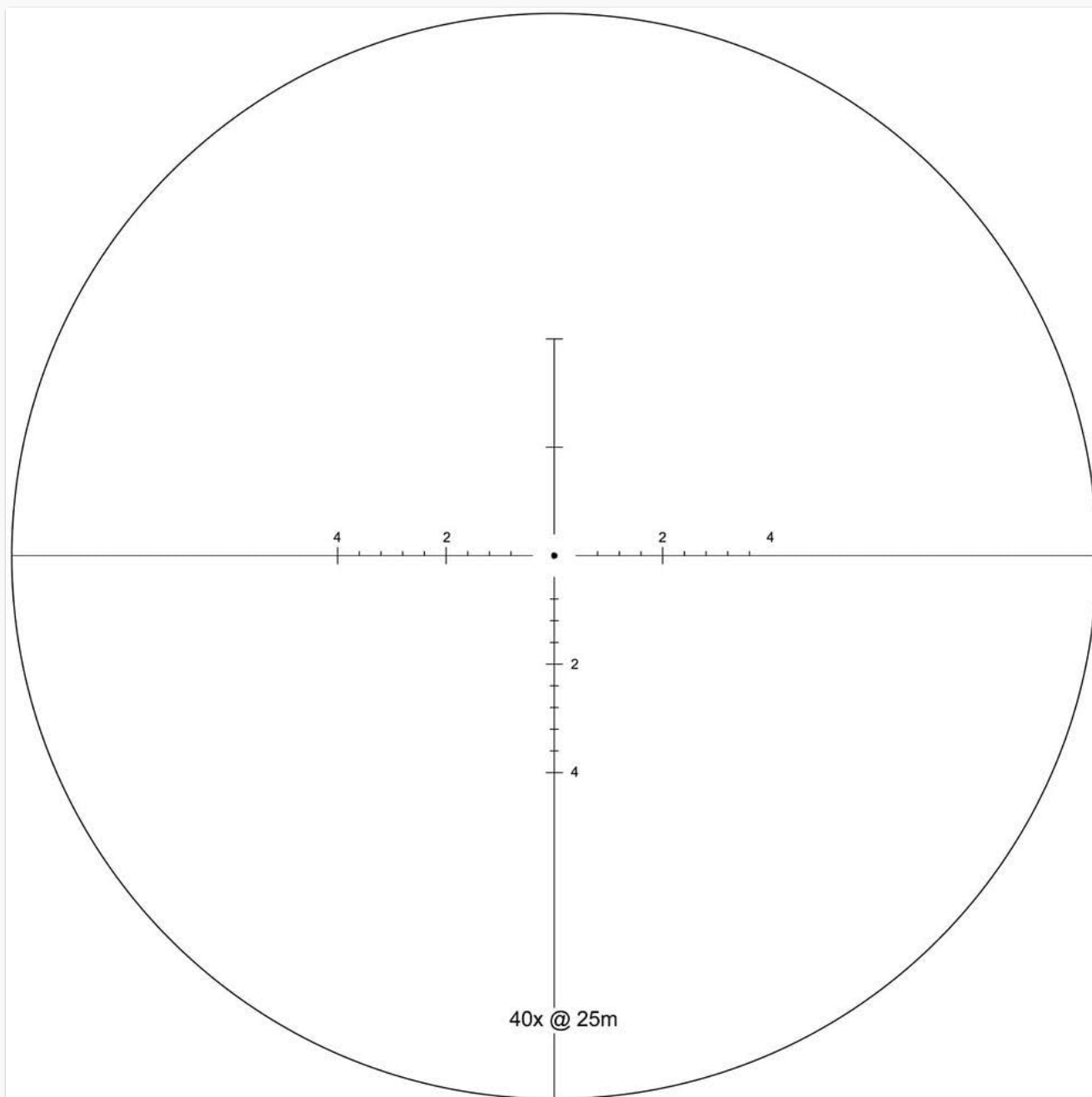


Figure 3: Diagram of the COM-25M reticle.

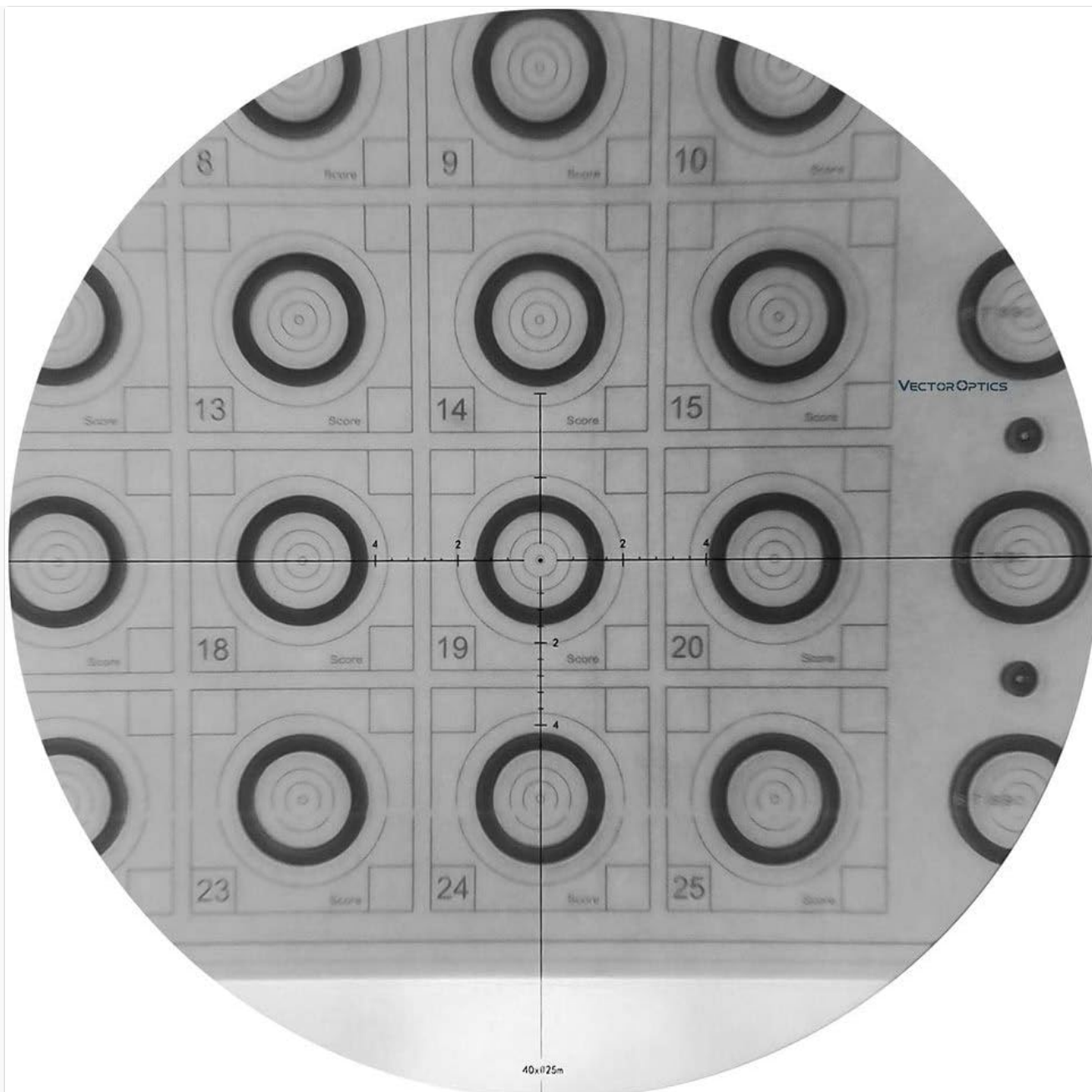


Figure 4: View through the riflescope showing the COM-25M reticle superimposed on a 25-meter benchrest target.

6. MAINTENANCE

6.1 Cleaning the Lenses

Use the provided cleaning cloth or a soft, lint-free cloth specifically designed for optical lenses. Gently wipe away dust and debris. For stubborn smudges, use a small amount of lens cleaning fluid applied to the cloth, not directly to the lens. Avoid touching the lens surfaces with your fingers.

6.2 General Care and Storage

- Keep the lens covers on when the riflescope is not in use to protect the lenses from dust and scratches.
- Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures.
- The riflescope is O-ring sealed and nitrogen purged for water and fog proof performance, but avoid prolonged submersion in water.
- The scope is shockproof up to 750g, but handle it with care to prevent damage from severe impacts.

7. TROUBLESHOOTING

7.1 Unclear Image / Blurry Reticle

- **Reticle Blurry:** Adjust the fast-focus eyepiece (diopter) until the reticle is sharp.
- **Target Blurry:** Adjust the side focus (parallax) knob until the target is clear and parallax is eliminated.
- **General Unclearity:** Ensure lenses are clean. Check for fogging (if persistent, contact support).

7.2 Difficulty Zeroing / Inconsistent Point of Impact

- **Mounting Issues:** Ensure the riflescope is securely mounted to the rifle. Loose rings or an improperly installed base can cause significant zeroing problems. Check all screws for tightness.
- **Turret Lock:** Confirm that the windage and elevation turrets are properly locked after making adjustments. If they are not pressed down, they can shift.
- **Ammunition Consistency:** Inconsistent ammunition can lead to varied points of impact.
- **Shooting Technique:** Ensure consistent shooting form and proper rifle support.
- **Scope Damage:** If all other factors are ruled out and the scope consistently fails to hold zero or adjust properly, the scope may be damaged. Contact customer support for assistance.

7.3 Turrets Not Adjusting

- Ensure the turret knob is **pulled up** to unlock it before attempting to make adjustments. After adjusting, **press it down** to lock.

8. WARRANTY INFORMATION

The Vector Optics Sentinel-X 10-40x50 SFP Riflescope comes with a **5-year warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the official Vector Optics website or contact customer support.

9. SUPPORT INFORMATION

For further assistance, technical support, or warranty inquiries, please contact Vector Optics customer service. You can typically find contact information on the official Vector Optics website or through the retailer where you purchased the product.

Website: www.vectoroptics.com (Note: This is a placeholder URL, please refer to your product packaging or official documentation for the correct support website.)