Vector Optics SCFF-65

Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope

User Instruction Manual

1. Introduction

Thank you for choosing the Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope. This manual provides detailed instructions for the proper setup, operation, and maintenance of your new rifle scope. Please read this manual thoroughly before using the product to ensure safe and effective operation.

2. Safety Information

- Always handle firearms and optics with extreme care. Follow all firearm safety rules.
- Ensure the firearm is unloaded and safe before mounting or adjusting the scope.
- Never look directly at the sun or any intense light source through the scope, as this can cause permanent eye damage.
- Keep the scope and its accessories out of reach of children.
- Avoid dropping or subjecting the scope to severe impacts, which can damage internal components.

3. Package Contents

Upon opening your Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope package, please verify that all the following items are included:

- Riflescope (Vector Optics SCFF-65 Tauron 4-24x50 FFP)
- Rubber Lens Cover
- Sunshade
- User Manual (this document)
- Plastic Wrench

Image: The Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope shown with its included accessories, such as lens covers, sunshade, and user manual, neatly arranged within its protective packaging.

4. Product Overview

The Vector Optics SCFF-65 Tauron 4-24x50 FFP is a high-performance rifle scope designed for precision shooting. Familiarize yourself with its main components:

Image: An overall view of the Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope, showcasing its matte black finish and general form factor.

- **Objective Lens:** The front lens, responsible for gathering light. (See image below)
- **Eyepiece/Diopter Adjustment Ring:** Located at the rear, used to focus the reticle. (See image below)
- **Magnification Ring:** Adjusts the magnification from 4x to 24x.
- **Windage Turret:** Located on the right side, adjusts horizontal point of impact.
- **Elevation Turret:** Located on top, adjusts vertical point of impact, features a Zero Stop.
- **Side Parallax Adjustment:** Located on the left side, adjusts for parallax error at various distances.

Image: A detailed view of the windage, elevation, and parallax turrets, along with the magnification adjustment ring, showing their markings and textured surfaces for grip.

Image: A front-facing view of the rifle scope, highlighting the large objective lens which gathers light for a clear image.

Image: A rear view of the rifle scope, focusing on the eyepiece and the diopter adjustment ring, which allows users to fine-tune the reticle's focus to their eye.

5. Setup

5.1 Mounting the Scope

1. **Choose Appropriate Mounts:** Use high-quality Picatinny-compatible rings that match the scope's 30mm tube diameter.
2. **Position the Scope:** Place the scope in the rings, ensuring proper eye relief. Eye relief is the distance between your eye and the eyepiece for a full, clear field of view. This is typically determined by shouldering the rifle in your natural shooting position.
3. **Level the Reticle:** Rotate the scope within the rings until the reticle is perfectly level with the rifle. Use a reticle leveling tool for best results.
4. **Tighten Rings:** Securely tighten the ring screws according to the mount manufacturer's specifications. Do not overtighten, as this can damage the scope tube.

5.2 Focusing the Reticle (Diopter Adjustment)

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. Adjust the diopter adjustment ring (at the rear of the eyepiece) until the reticle appears sharp and clear the instant you look through the scope.
4. Once focused, the reticle should remain sharp regardless of the target distance or magnification setting.

5.3 Zeroing the Scope

Zeroing establishes the point of impact at a specific distance. This scope features a First Focal Plane (FFP) reticle, meaning the reticle size changes with magnification, and subtensions remain accurate at all power settings.

1. **Initial Boresight:** If possible, boresight the scope to get the initial shots on paper at a short distance (e.g., 25 yards).
2. **Shoot a Group:** At your desired zeroing distance (e.g., 100 yards), fire a three-shot group from a stable

rest.

3. **Adjust Turrets:** Observe the point of impact relative to your aim point. Use the windage and elevation turrets to adjust the reticle. The turrets are marked for precise adjustments (e.g., 1/4 MOA or 0.1 MRAD per click). Turn the elevation turret clockwise to move the impact down, counter-clockwise to move it up. Turn the windage turret clockwise to move the impact right, counter-clockwise to move it left.
4. **Confirm Zero:** Fire another group to confirm the adjustments. Repeat until your shots consistently hit the desired aim point.
5. **Set Zero Stop:** Once zeroed, follow the instructions for your specific Zero Stop mechanism (refer to the included user manual for detailed steps if not covered here) to set your elevation turret to stop at your zero point. This prevents accidental adjustments below your zero.

6. Operating the Scope

6.1 Magnification Adjustment

Rotate the magnification ring to change the power from 4x to 24x. Since this is a First Focal Plane (FFP) scope, the reticle will appear to grow or shrink with the target as you adjust magnification, ensuring that all reticle subtensions (e.g., mil-dots, hash marks) remain accurate at any power setting.

6.2 Parallax Adjustment

Parallax is the apparent shift in the reticle's position relative to the target when your eye moves. To eliminate parallax error:

1. Look through the scope at your target.
2. Rotate the side parallax adjustment knob until the target and reticle appear to be in the same focal plane. You can test this by slightly moving your head; if the reticle appears to move relative to the target, adjust further until it remains stationary.
3. The parallax knob is marked with approximate distances, but fine-tuning is often required.

6.3 Windage and Elevation Turrets with Zero Stop

The windage and elevation turrets allow for precise adjustments to the point of impact. Each click corresponds to a specific value (e.g., 0.1 MRAD). The elevation turret features a Zero Stop mechanism, which allows you to quickly return to your established zero setting after making temporary adjustments for long-range shooting. Consult the specific instructions for your Zero Stop system to engage and disengage it properly.

7. Maintenance

7.1 Cleaning the Lenses

- Use a soft brush or compressed air to remove loose dust and debris from the lens surfaces.
- Apply a small amount of lens cleaning solution to a clean microfiber lens cloth.
- Gently wipe the lenses in a circular motion, starting from the center and moving outwards.
- Avoid using harsh chemicals, paper towels, or clothing, as these can scratch the lens coatings.

7.2 Cleaning the Scope Body

- Wipe the exterior of the scope with a soft, damp cloth to remove dirt and fingerprints.
- For stubborn grime, a mild soap solution can be used, followed by wiping with a clean, damp cloth.
- Ensure all moisture is wiped away before storage.

7.3 Storage

- Store the scope in a cool, dry place, away from direct sunlight and extreme temperatures.
- Use the provided lens covers to protect the objective and eyepiece lenses when not in use.
- If storing for extended periods, consider placing the scope in a padded case.

8. Troubleshooting

- **Blurry Image:** Adjust the diopter for reticle focus and the parallax knob for target focus. Ensure lenses are clean.
- **Reticle Not Clear:** Re-adjust the diopter ring to match your eye.
- **Point of Impact Shift:** Check scope mounts for tightness. Ensure the scope is not damaged. Verify consistent shooting technique.
- **Turrets Not Adjusting:** Ensure turrets are not locked (if applicable) and are turning freely.

9. Specifications

The following table details the key specifications of the Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope:

Feature	Specification
Brand	Vector Optics
Model Name	SCFF-65
Magnification	4-24x
Objective Lens Diameter	50 Millimeters
Reticle Type	Chevron (First Focal Plane)
Material	Aluminum
Mounting Type	Picatinny Mount
Compatible Devices	Rifle
Field Of View	25.5 Feet
Thread Type	30mm
Color	Matte Black
Special Features	First Focal Plane, Zero Stop, IP67 Water Resistance

10. Warranty and Support

For warranty information, technical support, or service inquiries regarding your Vector Optics SCFF-65 Tauron 4-24x50 FFP Rifle Scope, please contact Vector Optics directly through their official website or the retailer from whom you purchased the product. Keep your proof of purchase for warranty claims.