Vector Optics Veyron 3-12x44

Vector Optics Veyron 3-12x44 Riflescope Instruction Manual

Model: Veyron 3-12x44 SFP

Introduction

This manual provides comprehensive instructions for the proper use, setup, and maintenance of your Vector Optics Veyron 3-12x44 Second Focal Plane Compact Riflescope. Designed for compact air guns and lightweight firearms, this riflescope features a 30mm monotube, turret lock system, and an illuminated center dot reticle. Please read this manual thoroughly before operating the device to ensure optimal performance and safety.



Image: The Vector Optics Veyron 3-12x44 Second Focal Plane Compact Riflescope, showcasing its compact design and control turrets.

Product Overview and Features

The Veyron 3-12x44 riflescope is engineered for precision and durability. Key features include:

- **Magnification:** 3-12x variable magnification for versatile targeting.
- **Objective Lens:** 44mm objective lens diameter for clear light gathering.
- **Reticle:** Etched Glass Reticle with an Illuminated Center Dot for enhanced visibility in various lighting conditions.
- **Coating:** Fully Multi-Coated optics ensuring 87% light transmission for bright and clear images.
- **Eye Relief:** Generous 4-inch (101.6mm) long eye relief for comfortable viewing.
- **Turret System:** Turret Lock System with 1/10 MIL (1cm) adjustments for precise windage and elevation control.
- **Parallax:** Side Focus adjustment, minimum from 10 yards.
- **Durability:** Shockproof (750G) and Waterproof (IPX6) construction, suitable for various environments.



Image: Illustration of the fully multi-coated optics, demonstrating high light transmission and clear imaging contrast compared to standard optics.



Image: Detailed view of the custom designed etched glass reticle with red intermittent illumination levels, indicating its precision for targeting.



Image: Visual representation of the riflescope's shockproof (750G) and waterproof (IPX6) capabilities, along with its suitability for AR/AK platforms, airguns, airsoft, and CQB applications.

Components and Accessories

Your Veyron riflescope package includes the following items:

- Vector Optics Veyron 3-12x44 Riflescope
- Flip-up Caps (for objective and ocular lenses)
- Honeycomb Sunshade
- Cleaning Cloth
- Mounting Rings (if included with specific package)
- User Manual



Image: A display of the riflescope and its accompanying accessories, including mounting rings, lens caps, cleaning cloth, and the user manual.

Setup and Mounting

Proper mounting is crucial for accuracy and performance. The Veyron riflescope features a 30mm monotube design.

1. **Mounting Rings:** Securely attach appropriate 30mm mounting rings to your firearm's rail system. Ensure the rings are aligned and tightened according to the manufacturer's specifications for your specific rings.
2. **Scope Placement:** Place the riflescope into the lower half of the rings. Adjust the scope's position forward or backward to achieve optimal eye relief. The recommended eye relief is approximately 4 inches (101.6mm).
3. **Leveling:** Use a scope leveling kit or a plumb bob to ensure the reticle is perfectly level with your firearm. This prevents canting errors during shooting.
4. **Tightening:** Once eye relief and level are set, carefully tighten the top halves of the mounting rings. Tighten screws evenly and incrementally to avoid stressing the scope tube. Refer to the torque specifications provided with your mounting rings.

5. **Sunshade Installation:** Screw the honeycomb sunshade onto the objective lens end of the riflescope if desired, to reduce glare.
6. **Flip-up Caps:** Attach the flip-up caps to protect the objective and ocular lenses when not in use.

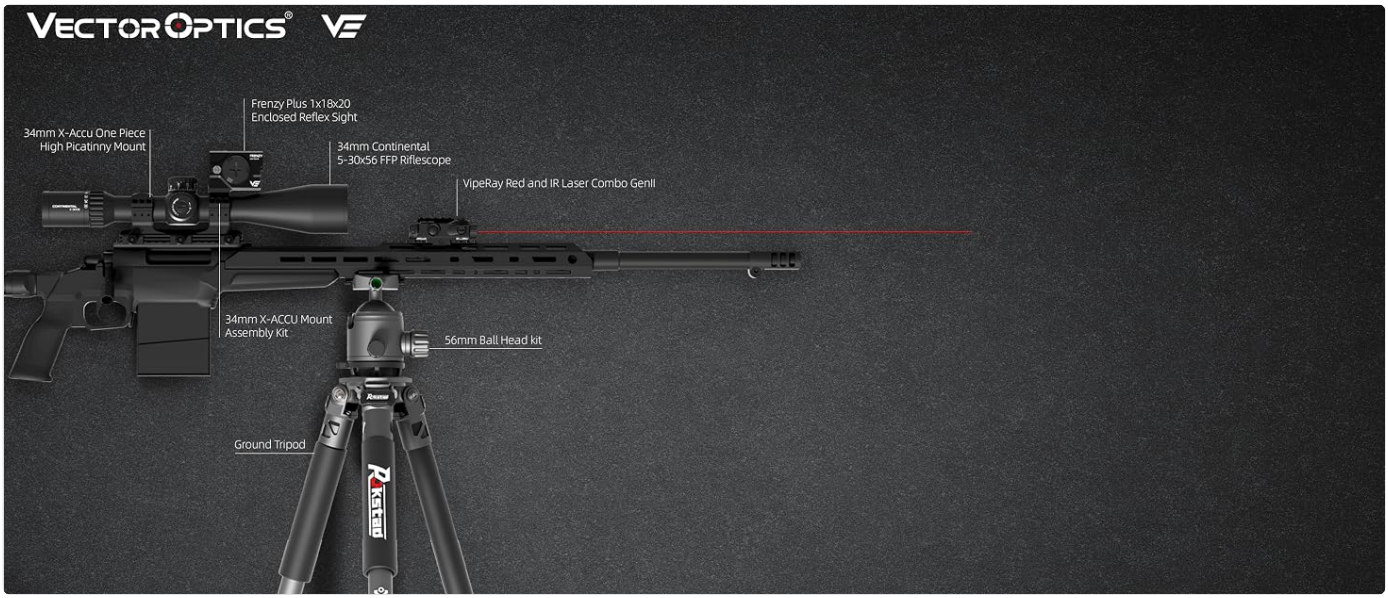


Image: An example of the Vector Optics riflescope mounted on a firearm, illustrating proper setup and accessory integration.

Operating Instructions

Magnification Adjustment

The Veyron 3-12x44 features a variable magnification ring located near the ocular lens. Rotate this ring to adjust the magnification from 3x to 12x. The numbers on the ring indicate the current magnification setting.



Image: Visual guide demonstrating the 4x zoom factor and magnification adjustment from 3x to 12x, along with details on the 1/10 MIL adjustment turrets.

Diopter Adjustment

The diopter adjustment ring is located on the ocular lens. To adjust, look through the scope at a plain background (like a clear sky or a blank wall) and rotate the diopter ring until the reticle appears sharp and clear. This adjustment compensates for individual eyesight differences.

Parallax Adjustment (Side Focus)

The parallax adjustment knob is located on the left side of the scope. Rotate this knob to bring the target and reticle into the same focal plane, eliminating parallax error. Adjust the knob until the target appears sharp and the reticle does not shift relative to the target when you move your eye slightly. The minimum parallax setting is 10 yards.

Windage and Elevation Adjustment

The windage (right side) and elevation (top) turrets are used to adjust the point of impact. Each click of the turret adjusts the point of impact by 1/10 MIL (1 centimeter at 100 meters). The turrets feature a lock system to prevent accidental adjustments.

- **Unlocking Turrets:** Pull the turret knob upwards to unlock it for adjustment.
- **Adjusting:** Rotate the elevation turret clockwise to move the point of impact down, and counter-clockwise to move it up. Rotate the windage turret clockwise to move the point of impact right, and counter-clockwise to move it left.
- **Locking Turrets:** Push the turret knob downwards to lock it in place after adjustment.
- **Zero Reset:** After zeroing your rifle, you can reset the turrets to '0' by loosening the small screws on the turret cap, rotating the cap to '0', and then re-tightening the screws.

Illuminated Reticle Operation

The illumination control is integrated with the parallax knob on the left side. Rotate the outer ring of this knob to turn the illumination on and adjust its brightness. The reticle features red intermittent illumination levels. Turn the knob to the 'OFF' position when illumination is not needed to conserve battery life.

Maintenance

Proper maintenance ensures the longevity and performance of your riflescope.

- **Cleaning Lenses:** Use the provided cleaning cloth or a soft, lint-free cloth specifically designed for optical lenses. Gently wipe away dust and smudges. For stubborn marks, use a small amount of lens cleaning fluid applied to the cloth, not directly to the lens.
- **Cleaning Body:** Wipe the exterior of the riflescope with a soft, damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures. Use the flip-up caps to protect the lenses. If storing for extended periods, consider removing the battery for the illuminated reticle.
- **Water Exposure:** While waterproof (IPX6), it is recommended to wipe down the scope with a dry cloth after exposure to moisture to prevent water spots and corrosion.

Troubleshooting

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

Problem	Possible Cause	Solution
Blurry image or reticle	Incorrect diopter or parallax adjustment	Adjust the diopter ring until the reticle is sharp. Adjust the side focus (parallax) knob until the target is clear and parallax is eliminated.
Reticle illumination not working	Battery drained or incorrectly installed	Check battery orientation. Replace battery if necessary. Ensure illumination knob is turned to an 'ON' setting.
Point of impact shifts	Loose mounting rings or turret not locked	Ensure mounting rings are securely tightened to specified torque. Confirm turrets are locked after adjustment.
Fogging inside scope	Rapid temperature change or seal compromise	Allow scope to acclimate to temperature. If persistent, contact customer support as internal seals may be compromised.

If the problem persists after attempting these solutions, please contact Vector Optics customer support for further assistance.

SPECIFICATIONS

Detailed technical specifications for the Vector Optics Veyron 3-12x44 Riflescope:

Feature	Specification
Magnification	3-12x
Objective Lens Diameter	44mm (1.73 Inches)
Ocular Lens Diameter	33mm
Tube Diameter	30mm Monotube
Eye Relief	90-85mm (3.5-3.4 Inches) / 101.6mm (4 Inches)
Field of View	35.1-8.7ft @ 100 yards
Click Value	1/10 MIL (1cm)
Adjustment Range	17.5 MIL
Reticle Type	Illuminated Center Dot (Etched Glass)
Optical Coating	Fully Multi-Coated
Parallax Setting	Side Focus, Min from 10 Yards
Length	243mm (9.6 inches)
Weight	750 Grams (26.4 Oz)
Material	Aluminum
Waterproof Rating	IPX6
Shockproof Rating	750G



Image: Diagram illustrating the objective lens and ocular lens diameters of the riflescope.

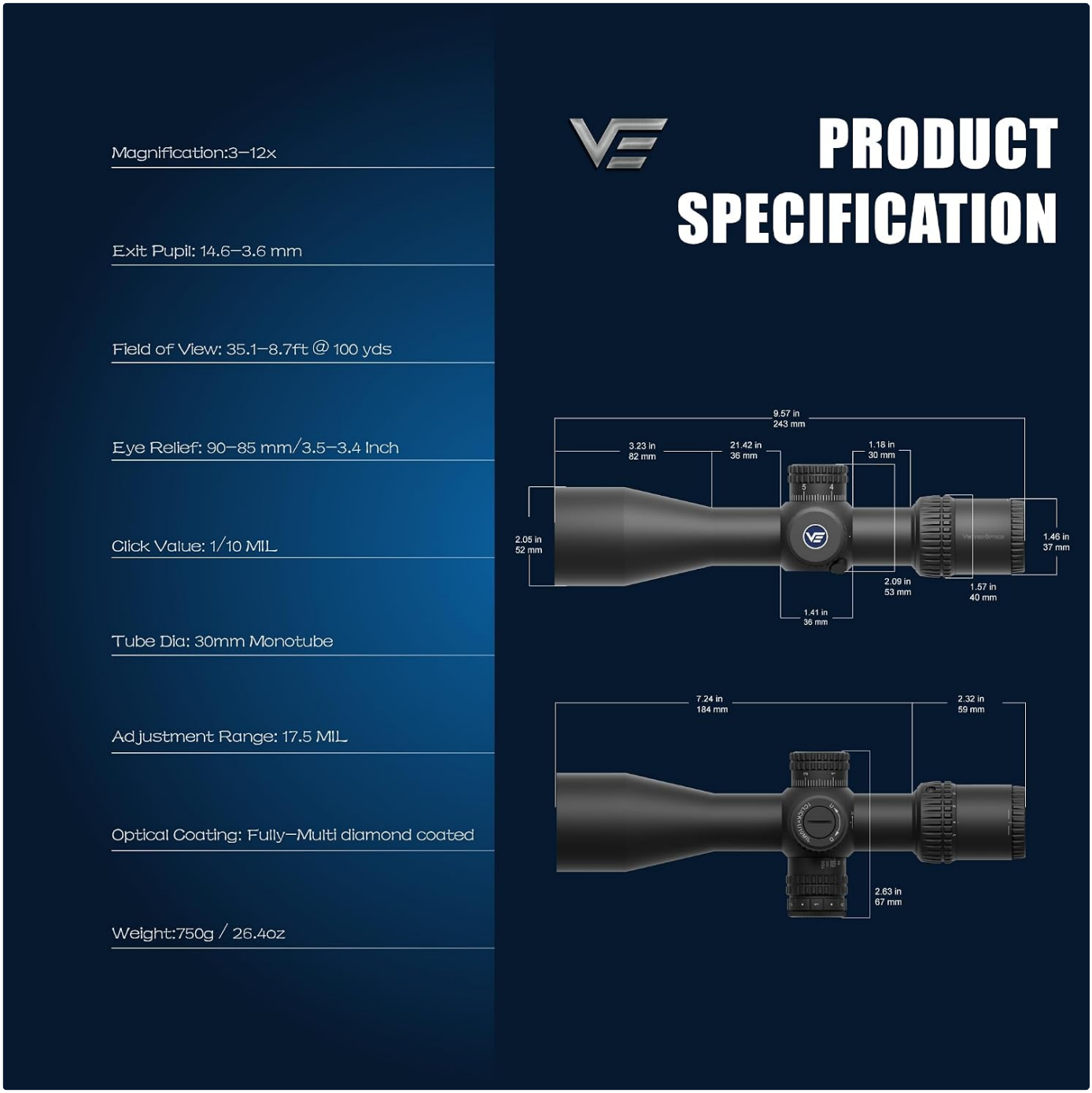


Image: Technical drawing showing the detailed dimensions of the Vector Optics Veyron riflescope.

Warranty and Support

Vector Optics stands behind the quality of its products. The Veyron 3-12x44 Riflescope comes with a **5-year warranty** from the date of purchase, covering manufacturing defects and material flaws under normal use.

For warranty claims, technical support, or any inquiries regarding your riflescope, please contact Vector Optics customer service. Keep your proof of purchase for warranty validation.

You can find contact information and additional resources on the official Vector Optics website: www.vectoroptics.com