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Vortex Razor HD Gen III 4-24x44

Vortex Razor HD Gen III 4-24x44 FFP Riflescope

INSTRUCTION MANUAL

1. PRODUCT OVERVIEW

The Vortex Razor HD Gen III 4-24x44 First Focal Plane (FFP) Riflescope is engineered for precision and versatility, offering a balance of magnification and field of view. This optical system provides exceptional resolution, color fidelity, and light transmission, making it suitable for various shooting scenarios. Its robust construction ensures durability and reliable performance.



The Vortex Razor HD Gen III 4-24x44 FFP Riflescope.

Key Features:

- **HD Optical System:** Delivers exceptional resolution, reduces chromatic aberration, and provides outstanding color fidelity and light transmission.
- **Proprietary Coatings:** Anti-reflective coatings on all air-to-glass surfaces increase light transmission. Armortek coatings protect lenses from scratches, oil, and dirt.

- **EBR-7D Glass-Etched Reticle:** Features ten daylight-bright illumination settings for precise range estimation, holdovers, windage corrections, and moving-target leads.
- **L-Tec+ Zero Stop Turret System:** Micro-adjust zero stop for ultra-fast and simple zeroing, ensuring a rock-steady return to zero with a single set screw.
- **Durable Construction:** O-ring sealed and argon purged for waterproof and fogproof performance. Aircraft-grade aluminum construction provides a durable, shockproof platform.

2. COMPONENTS AND PARTS IDENTIFICATION

Familiarize yourself with the various parts of your Razor HD Gen III riflescope to ensure proper handling and operation.



Detailed diagram showing the various components of the riflescope, including ocular lens, magnification adjustment ring, fast-focus eyepiece, locking elevation turret, parallax adjustment knob, battery compartment, locking illumination control knob, capped windage turret, objective lens, and throw lever.

What's in the Box:

- Vortex Razor HD Gen III 4-24x44 FFP Riflescope
- Defender Flip Caps
- 3" Sunshade
- Throw Lever
- Custom 2mm Throw Lever Tool
- Custom 2.5mm Turret Tool
- CR2032 Battery
- Lens Cloth
- Product Manual
- Reticle Manual

WHAT'S IN THE BOX

RAZOR HD GEN III 4-24x44 FFP RIFLESCOPE

- ▶ DEFENDER® FLIP CAPS
- ▶ 3" SUNSHADE
- ▶ THROW LEVER
- ▶ CUSTOM 2mm THROW LEVER TOOL
- ▶ CUSTOM 2.5mm TURRET TOOL
- ▶ CR2032 BATTERY
- ▶ LENS CLOTH
- ▶ PRODUCT MANUAL
- ▶ RETICLE MANUAL



Image displaying the complete contents included with the Vortex Razor HD Gen III 4-24x44 FFP Rifle Scope, such as the scope, sunshade, flip caps, lens cloth, battery, throw lever, and adjustment tools.

3. SETUP AND INSTALLATION

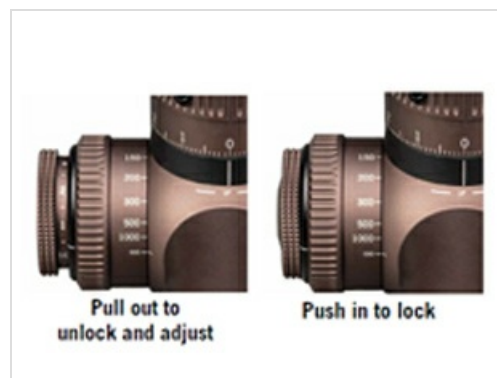
3.1 Mounting the Rifle Scope

Proper mounting is crucial for optimal performance. Use appropriate 34mm rings and a base compatible with your rifle. Ensure the scope is level and eye relief is set correctly for your shooting position. Refer to your ring and base manufacturer's instructions for specific torque specifications.

3.2 Battery Installation for Illumination

The reticle illumination is powered by a CR2032 battery. To install or replace the battery:

1. Unscrew the cap on the illumination control knob (integrated into the parallax knob).
2. Insert the CR2032 battery with the positive (+) side facing out.
3. Replace the cap and tighten securely.



The locking illumination control knob, which pops out from the parallax knob to offer 10 brightness settings and off-settings between each.

3.3 Fast-Focus Eyepiece Adjustment

To ensure a sharp reticle image:

1. Look through the scope at a blank, bright wall or the sky.
2. Rotate the fast-focus eyepiece (located at the rear of the scope) in either direction until the reticle appears sharp and clear.
3. Avoid over-tightening.

4. OPERATING THE RIFLESCOPE

4.1 Magnification Adjustment

The Razor HD Gen III features a 4-24x magnification range. Rotate the magnification adjustment ring (located forward of the eyepiece) to change the magnification. The included throw lever can be attached for quicker adjustments.

4.2 Elevation and Windage Adjustments (Zeroing)

The riflescope features an exposed, locking elevation turret with the L-Tec+ Zero System and a capped windage turret. These turrets allow for precise adjustments to your point of impact.

- **Elevation Turret:** Pull up to unlock, rotate to adjust, and push down to lock. The L-Tec+ Zero System provides a hard stop below your zero and allows for micro-adjustments to set your zero precisely.
- **Windage Turret:** Remove the cap to access the windage adjustment dial. Rotate to adjust. Replace the cap when finished to maintain a streamlined profile.



The capped windage turret, providing a streamlined profile and micro-adjust zero system.

4.3 Parallax Adjustment

Parallax is the apparent shift in the reticle relative to the target when the shooter's eye moves off-center. To eliminate parallax:

1. Look through the scope and focus on your target.
2. Rotate the parallax adjustment knob (on the left side of the scope) until the target and reticle appear to be in the same focal plane and there is no apparent shift when moving your head slightly.
3. The parallax knob adjusts from 15 yards to infinity.



The parallax adjustment knob, integrated with the illumination control, allowing adjustments from 15 yards to infinity.

4.4 Reticle Illumination

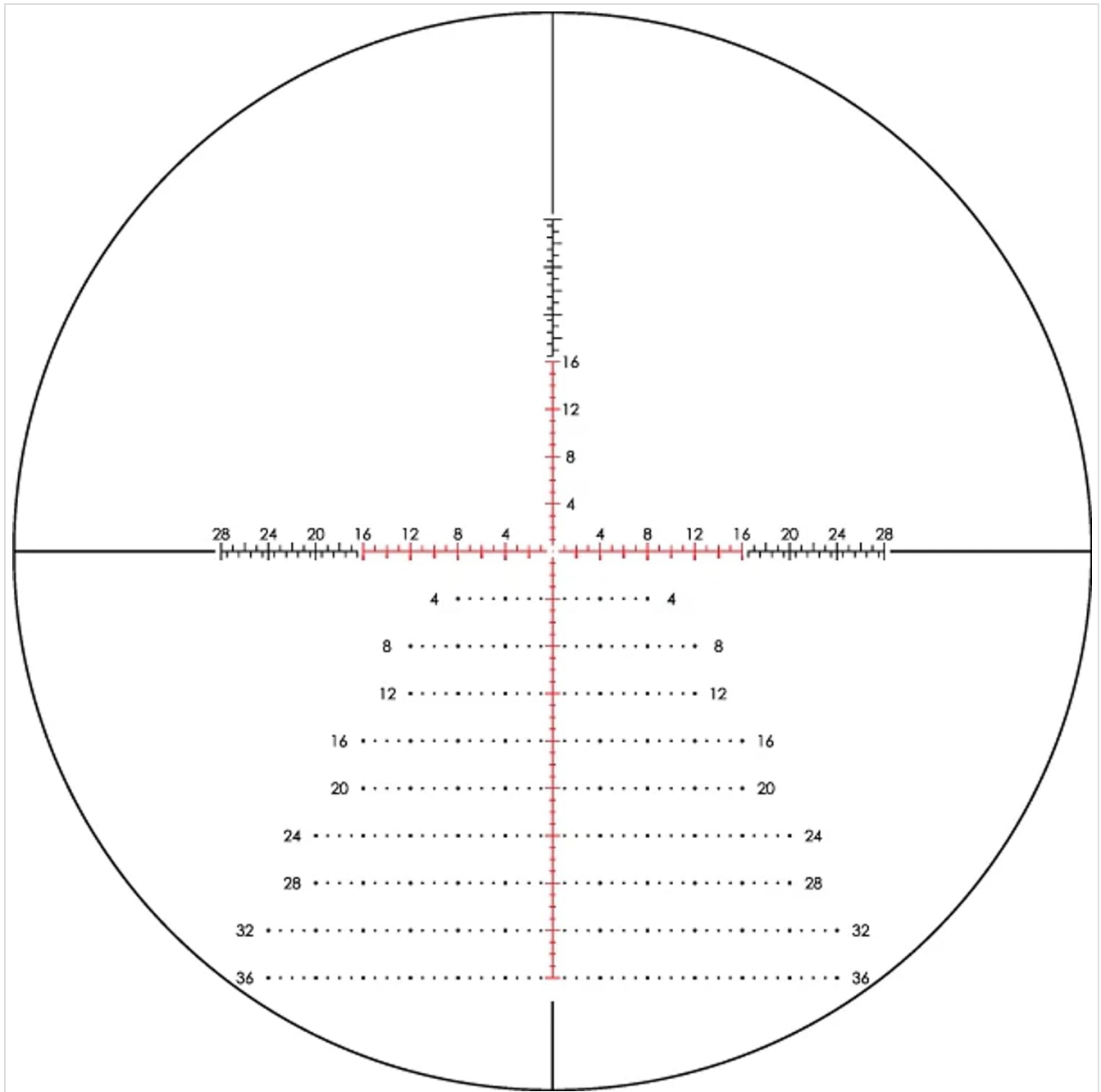
The EBR-7D reticle features adjustable illumination for varying light conditions. The illumination control knob is integrated into the parallax knob.

1. Pull the illumination control knob out from the parallax knob.
2. Rotate the knob to select one of the ten brightness settings.

3. Each setting has an 'off' position between them, allowing you to quickly return to your preferred brightness.
4. Push the knob back in to lock the setting and prevent accidental changes.

4.5 Using the EBR-7D FFP Reticle

The EBR-7D is a First Focal Plane (FFP) reticle, meaning its subtensions remain accurate across all magnification settings. This allows for consistent range estimation, holdovers, and windage corrections regardless of the magnification level.



View through the riflescope showcasing the EBR-7D (MOA) First Focal Plane reticle, designed for precise range estimation and holdovers.

The reticle features an illuminated cross-plex with a floating center dot, surrounded by precise subtensions for various calculations. Refer to the included Reticle Manual for detailed instructions on using the EBR-7D (MOA) reticle for specific applications like rangefinding, bullet drop compensation, and wind drift correction.

5. MAINTENANCE

5.1 Cleaning the Lenses

The lenses of your Razor HD Gen III riflescope are coated with Armortek for enhanced durability. To clean them:

1. Use the included lens cloth or a soft, lint-free cloth.
2. Gently brush away any loose dust or debris.
3. If necessary, use a small amount of lens cleaning fluid applied to the cloth (not directly to the lens) to remove smudges or fingerprints.
4. Avoid harsh chemicals or abrasive materials, as these can damage the lens coatings.

5.2 General Cleaning and Storage

Keep the exterior of the riflescope clean by wiping it with a soft, damp cloth. Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure all caps are securely in place to protect the lenses and turrets.

6. TROUBLESHOOTING

If you encounter any issues with your Razor HD Gen III riflescope, consider the following common troubleshooting steps:

- **Unclear Reticle:** Adjust the fast-focus eyepiece until the reticle is sharp.
- **Blurry Image:** Adjust the parallax knob to match the distance to your target. Ensure the objective lens is clean.
- **Illumination Not Working:** Check if the CR2032 battery is correctly installed and has sufficient charge. Replace if necessary. Ensure the illumination knob is pulled out and set to a brightness level.
- **Inconsistent Point of Impact:** Verify that the scope is securely mounted and all mounting screws are torqued to the manufacturer's specifications. Check for any loose components on the rifle or scope.
- **Turret Issues:** Ensure elevation and windage turrets are unlocked before attempting adjustments.

For persistent issues or complex problems, please refer to the detailed troubleshooting guide in the full product manual or contact Vortex customer support.

7. SPECIFICATIONS

Below are the detailed specifications for the Vortex Razor HD Gen III 4-24x44 FFP Riflescope:

Feature	Specification
Brand	Vortex
Model	Razor HD Gen III 4-24x44
Color	Anodized Stealth
Style	Rifle Scope
Sport	Hunting
Item Weight	5.2 Pounds (approx. 32.3 oz)
Material	Aluminum
Magnification Minimum	4 x
Compatible Devices	Rifle
Mounting Type	Ring Mount
Night Vision	No
Reticle Type	EBR-7D (MOA)
UPC	843829142298
Included Components	Riflescope, Battery, Lens Cloth (and other accessories listed in 'What's in the Box')

8. OFFICIAL PRODUCT VIDEO OVERVIEW

Watch the official product overview video for a visual guide to the Vortex Razor HD Gen III 4-24x44 FFP Riflescope's features and operation.

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Official overview video for the Vortex Razor HD Gen III 4-24x44 FFP Riflescope, detailing its features and benefits.

9. WARRANTY AND SUPPORT

Vortex VIP Warranty

The Vortex Razor HD Gen III 4-24x44 FFP Riflescope is backed by the Vortex VIP Warranty. This is an unlimited, unconditional, lifetime warranty. If your product becomes damaged or defective, Vortex will repair or replace it. This warranty is fully transferable and does not cover loss, theft, deliberate damage, or cosmetic damage that does not hinder the product's performance.

Customer Support

For further assistance, technical support, or warranty claims, please contact Vortex Optics directly through their official website or customer service channels.