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## Vortex CFR-1501i

# Vortex Crossfire HD 1.5-5x32 Scout Riflescope Instruction Manual

Model: CFR-1501i

## INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your Vortex Crossfire HD 1.5-5x32 Scout Riflescope. Designed for optimal performance, this riflescope features an HD optical system and a durable construction suitable for various hunting conditions.

## KEY FEATURES

- **HD Optical System:** Utilizes select glass elements for sharp resolution, reduced chromatic aberration, and excellent color fidelity with edge-to-edge clarity.
- **Fully Multi-Coated Lenses:** Anti-reflective coatings on all air-to-glass surfaces enhance light transmission and improve clarity in low-light conditions.
- **Illuminated Dead-Hold 2A BDC (MOA) Reticle:** Combines trusted holdover and windage guidance with an illuminated floating center dot for fast, precise aiming in low light. Ideal for varying distances where holdover estimation is crucial.
- **Fast Focus Eyepiece:** Allows quick adjustment of reticle focus for rapid target acquisition.
- **Durable Construction:** Built from aircraft-grade aluminum with a low-glare matte black anodized finish. Waterproof, fogproof, and shockproof for lasting field performance.
- **Scout Configuration:** Specifically designed for scout rifles and hunting pistols, offering extended eye relief.

## COMPONENTS OVERVIEW

Familiarize yourself with the main components of your riflescope:



**Figure 1:** Labeled diagram of the Vortex Crossfire HD Rifle Scope, highlighting the Ocular Lens, Fast-Focus Eyepiece, Magnification Adjustment Ring, Elevation Turret, Windage Turret, Battery Compartment, Illumination Control Knob, and Objective Lens.

**Ocular Lens:** The lens closest to the eye.

**Fast-Focus Eyepiece:** Used to quickly adjust the reticle focus.

**Magnification Adjustment Ring:** Rotates to change the rifle scope's magnification.

**Elevation Turret:** Adjusts the vertical point of impact.

**Windage Turret:** Adjusts the horizontal point of impact.

**Battery Compartment:** Houses the CR2032 battery for reticle illumination.

**Illumination Control Knob:** Adjusts the brightness of the illuminated reticle.

**Objective Lens:** The lens furthest from the eye, gathering light.

## SETUP

### Mounting the Rifle Scope

Proper mounting is crucial for accuracy and consistent performance. Ensure the rifle scope is securely mounted to your firearm using appropriate rings and bases. Consult a qualified gunsmith if you are unsure about the mounting process.

### Focusing the Reticle (Fast Focus Eyepiece)

1. Hold the rifle scope about 3-4 inches from your eye.
2. Look through the rifle scope at a plain, bright background (like a wall or clear sky).
3. Rotate the fast-focus eyepiece (located at the rear of the ocular lens) clockwise or counter-clockwise until the reticle appears sharp and crisp.
4. Avoid staring at the reticle for too long, as your eye will naturally compensate for slight out-of-focus conditions. A quick glance is best.

### Adjusting Magnification

The magnification adjustment ring is located forward of the fast-focus eyepiece. Rotate this ring to increase or decrease the magnification. The 1.5-5x32 Scout model offers a magnification range from 1.5x to 5x.

### Illumination Control

Your riflescope features an illuminated reticle. The illumination control knob is located on the left side of the riflescope, opposite the windage turret. Rotate the knob to turn the illumination on/off and adjust the brightness settings. Intermediate "off" positions are present between each brightness level. For a visual demonstration, please refer to the official product overview video in the "Official Product Overview Video" section.

## OPERATING THE RIFLESCOPE

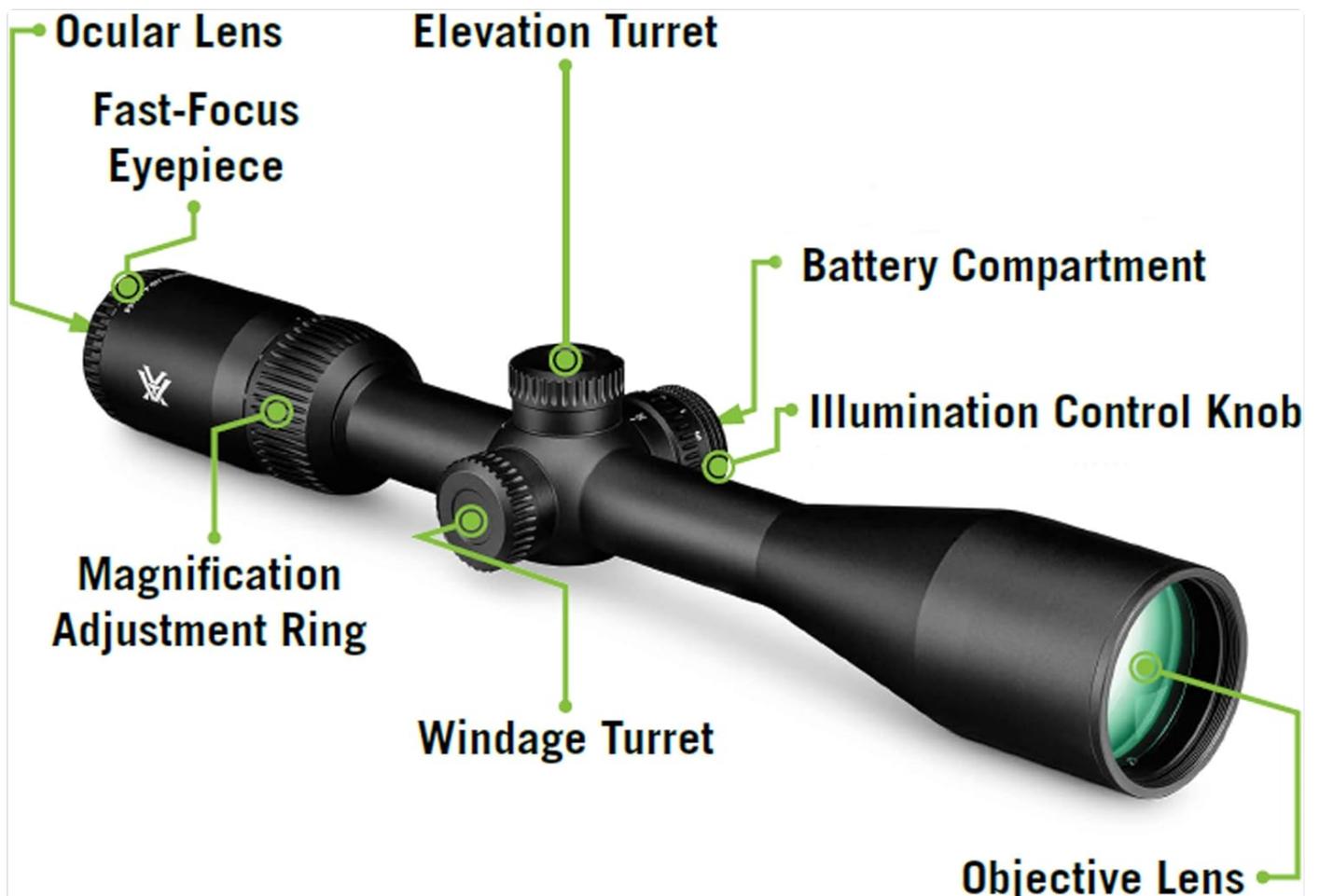
### Zeroing the Riflescope (Elevation and Windage Turrets)

The elevation and windage turrets are used to adjust the point of impact. Each click of the turret moves the point of impact by a specific MOA value. The Crossfire HD riflescopes feature capped turrets to prevent accidental adjustments. For a visual demonstration of turret adjustments, please refer to the official product overview video in the "Official Product Overview Video" section.

1. Ensure your riflescope is securely mounted.
2. Fire a group of shots at your desired zeroing distance.
3. Observe the point of impact relative to your aim point.
4. Remove the turret caps.
5. Adjust the elevation and windage turrets as needed. Turn the turret in the direction you want the bullet to move on the target. For example, if your shots are hitting low, turn the elevation turret counter-clockwise (UP).
6. Replace the turret caps after zeroing.

### Understanding the Illuminated Dead-Hold 2A BDC (MOA) Reticle

The Illuminated Dead-Hold 2A BDC reticle provides holdover and windage reference points, allowing for quick adjustments without dialing turrets. The illuminated center dot enhances visibility in low-light conditions.



**Figure 2:** A visual representation of the Illuminated Dead-Hold 2A BDC (MOA) reticle, showing the main crosshairs and additional holdover points, with an illuminated center dot. A deer silhouette is visible in the background.

For detailed information on specific holdover points and their corresponding distances, refer to the reticle manual included with your riflescope or visit the Vortex Optics website.

## MAINTENANCE

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### Cleaning the Lenses

Use the provided lens cloth or a soft, lint-free cloth to gently wipe away dust and debris from the lenses. For stubborn smudges or fingerprints, use a lens cleaning solution and a clean lens cloth. Avoid using harsh chemicals or abrasive materials.

### Battery Replacement

The illuminated reticle is powered by a CR2032 battery, located in the illumination control knob. To replace the battery, unscrew the battery cap, remove the old battery, insert a new CR2032 battery with the positive (+) side facing out, and securely replace the cap.

### General Care

Store your riflescope in a cool, dry place. When not in use, keep the neoprene cover or flip caps on the lenses to protect them from dust and scratches. Regularly inspect the mounting hardware for tightness.

## TROUBLESHOOTING

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If you experience issues with your riflescope, consider the following common troubleshooting steps:

- **Unclear Reticle:** Adjust the fast-focus eyepiece.
- **Inaccurate Shots:** Verify mounting hardware is tight, check zeroing, and ensure proper shooting technique.
- **Illumination Not Working:** Check or replace the CR2032 battery. Ensure the illumination control knob is turned to an "on" position.
- **Fogging:** The riflescope is nitrogen purged and O-ring sealed to prevent internal fogging. External fogging can be wiped away. If internal fogging occurs, contact Vortex Optics for assistance.

For further assistance, refer to the detailed product manual or contact Vortex Optics customer support.

## SPECIFICATIONS

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# WHAT'S IN THE BOX

## CROSSFIRE® HD 1.5-5.5x32 ILLUMINATED DEAD-HOLD® 2A BDC MOA SCOUT RIFLESCOPE

- ▶ NEOPRENE COVER
- ▶ 3" SUNSHADE
- ▶ LENS CLOTH
- ▶ TURRET TOOL
- ▶ CR2032 BATTERY
- ▶ PRODUCT MANUAL
- ▶ RETICLE MANUAL

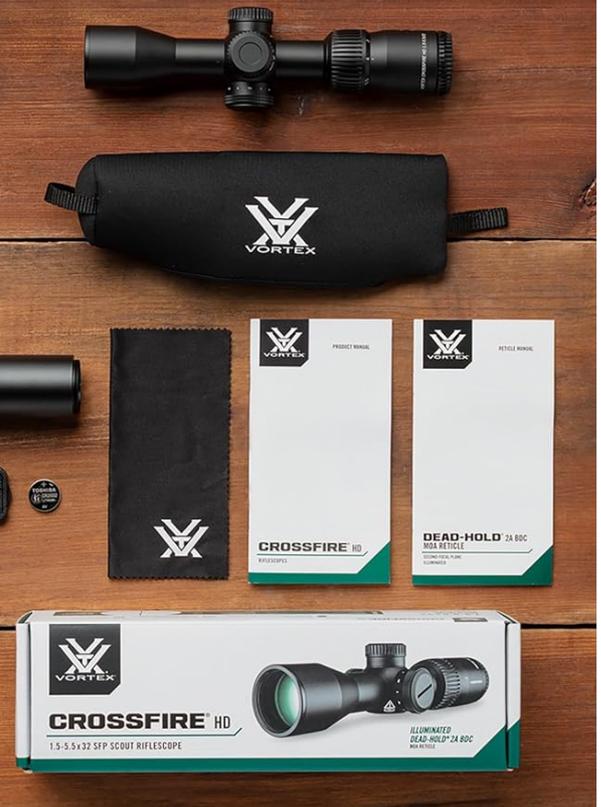


Figure 3: Detailed specifications table for the Vortex Crossfire HD 1.5-5.5x32 Scout Rifle Scope (SKU: CFR-1501i), including eye relief, design for scout rifles and handguns, HD optical system, and illuminated reticle.

### Vortex Crossfire HD 1.5-5x32 Scout Rifle Scope (CFR-1501i)

Feature	Detail
Magnification	1.5-5x
Objective Lens Diameter	32 mm
Reticle Type	Illuminated Dead-Hold 2A BDC (MOA)
Focal Plane	Second Focal Plane (SFP)
Tube Size	1-inch
Eye Relief	Extended (up to 24 inches at 1.5x)
Parallax Setting	100 yards
Length	8.7 inches
Weight	11.6 oz.
Material	Aircraft-grade Aluminum
Finish	Low-glare Matte Black Anodized
Environmental Protection	Waterproof, Fogproof, Shockproof
Power Source	CR2032 Battery (for illumination)

## WHAT'S IN THE BOX

Your Vortex Crossfire HD 1.5-5x32 Scout Riflescope package includes:

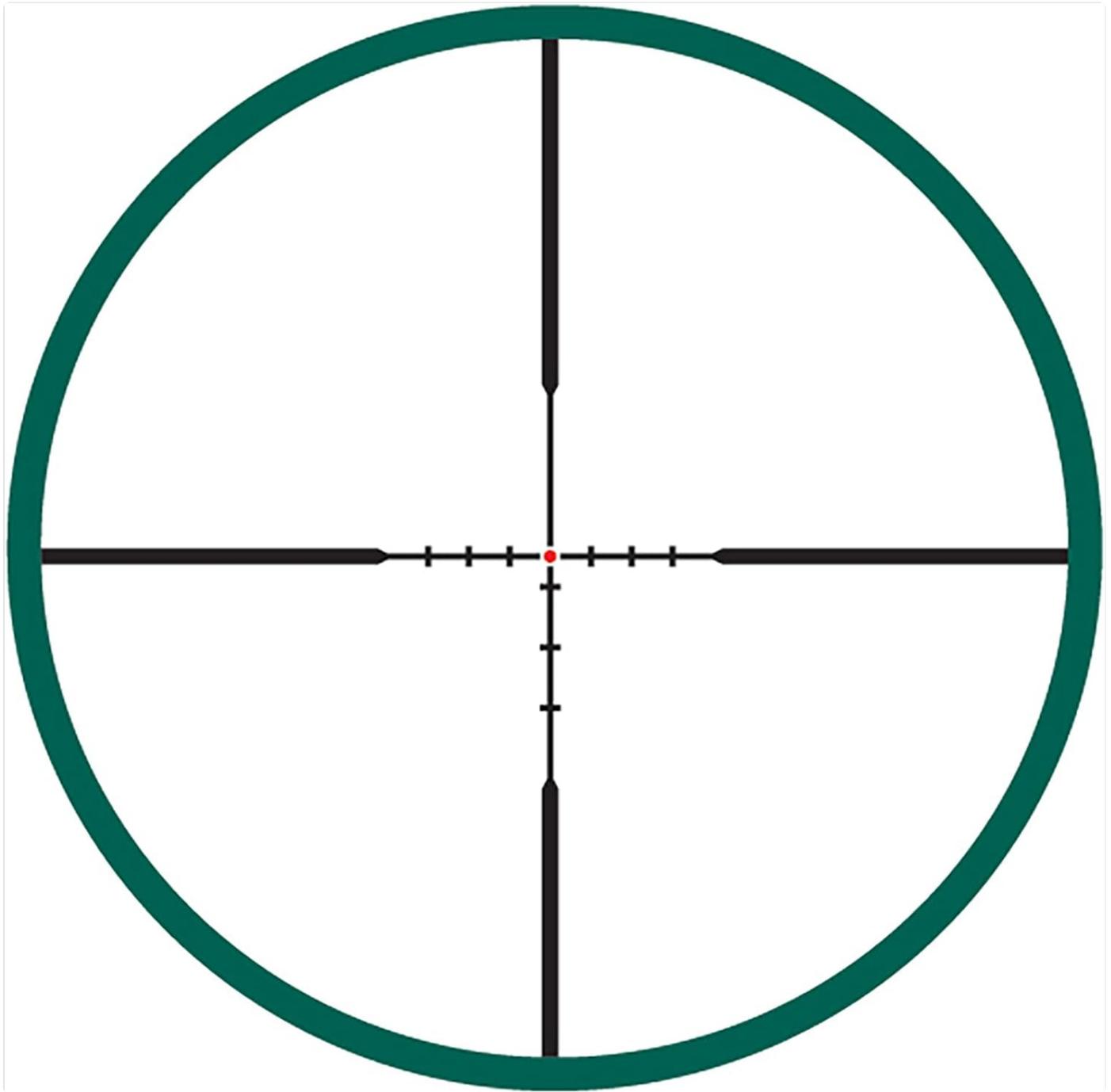


Figure 4: The complete contents of the Vortex Crossfire HD Riflescope package, laid out on a wooden surface.

- Vortex Crossfire HD 1.5-5x32 Scout Riflescope
- Neoprene Cover
- 3" Sunshade
- Lens Cloth
- Turret Tool
- CR2032 Battery
- Product Manual
- Reticle Manual

## WARRANTY AND SUPPORT

All Vortex Crossfire HD riflescopes are backed by the Vortex VIP Warranty. This is an unlimited, unconditional, lifetime warranty. Vortex will repair or replace your item if it becomes damaged or defective. This warranty does not cover loss, theft, deliberate damage, or cosmetic damage that does not hinder the product's performance.

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

[Visit Vortex Optics Website](#)

## OFFICIAL PRODUCT OVERVIEW VIDEO

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**Video 1:** An official overview of the Vortex Crossfire HD Riflescopes, detailing various models, features, and reticle options. This video provides a comprehensive look at the product line's capabilities and design.