First light, last light, and all day long, this crossbow topper will have you stacking arrows and filling tags in no time. Designed to be zeroed at 40 yards, our purpose-built reticle not only gives you holdover points out to 100 yards, it features red and green illumination for low-light shooting. We also included the magnification and Feet per Second (FPS) on the magnification ring to keep the scope compatible with a variety of bows and setups, and a wide field of view makes it perfect for a variety of shooting situations. Plus, we’re including rings with the scope, so it’s ready to mount right out of the box. And the best part? It’s a Crossfire®, so you know it’s built for the field.
CROSSBOW SCOPE ADJUSTMENTS

Ocular Focus
The ocular focus is a one-time adjustment used to focus the reticle for maximum sharpness. This adjustment is slightly different for every shooter. A clearly focused reticle is a critical component for accurate shooting.

Ocular Focus—Reticle Focus Adjustment
The Crossfire® II crossbow scope features a fast focus eyepiece designed to quickly and easily adjust the reticle focus. To adjust the reticle focus:

1. Set the magnification to the highest setting.
2. Point the scope at a blank white wall or up at the sky.
3. Glance through the scope. If the reticle is not in focus, look away and make an adjustment to the eyepiece.
4. Repeat this process until the reticle is in sharp focus.

Tip: Make this adjustment quickly as your eye will try to compensate for an out-of-focus reticle.

Warning: Looking directly at the sun through a riflescope, or any optical instrument, can cause severe and permanent damage to your eyesight.

Magnification
The magnification adjustment is used to change the crossbow scope’s magnification level, or “power,” adjusting from low to high magnification depending on the shooter’s preference.

The magnification ring indicates both the power of magnification and the FPS for the crossbow. Yardage marks on the reticle will be accurate when setting the FPS on the magnification ring to your crossbow’s FPS setting.

Magnification Adjustment
Rotate the magnification ring to the desired magnification or FPS.
TURRETS

The Crossfire® II crossbow scope features precision, finger-adjustable elevation and windage turrets with tactile clicks.

To make adjustments:

1. Remove the elevation and/or windage turret cap(s).

2. Turn the turret in the direction you wish the arrow’s point of impact to go: up or down, left or right.

3. Replace the turret cap(s) when done.

**Tip:** After sight-in, you can realign the zero marks on the elevation and windage turrets with the reference dots if you wish. See “Indexing the Turrets” section for instructions.

The capped-style elevation and windage turrets provide a high travel range. Each click of the turret will provide 1/2 MOA of reticle movement.

Indexing the Turrets

The Crossfire® II crossbow scope features an elevation and windage turret that will allow you to reindex the zero indicator after sight-in without disturbing your settings. This allows you to quickly return to your original zero if temporary corrections are used in the field.

Index the turret as follows:

1. Remove the elevation/windage cap.

2. Using a coin or a screwdriver, hold the turret firmly so it does not move and remove the screw retaining the turret dial.

3. Lift the turret dial straight up and realign the dial with the zero-mark aligned with the reference line on the scope housing.

4. Push the turret dial straight down. While holding the turret so it does not move, reinstall the turret dial screw.

5. Replace the elevation/ windage turret cap.

Illumination Adjustments

The Crossfire® II crossbow scope features a reticle illumination system with both red and green illumination options, and variable levels of intensity to aid in low-light performance.

To activate the illumination, rotate the adjustment dial in either direction. This illumination dial allows for continuous adjustment between levels of brightness intensity. An off click between each color allows you to turn the illumination off and return to either color quickly.
Installing and Replacing the Battery

1. Unscrew the battery cap with a coin.
2. Remove the battery.
3. Replace with a new CR2032 battery.
4. Reinstall the battery cap and be sure to fully tighten it.

Parallax Setting

Parallax is a phenomenon that results when the target image does not fall on the same optical plane as the reticle within the scope. This can cause an apparent movement of the reticle in relation to the target if the shooter’s eye is off-center.

- When the target image is not focused on the reticle plane and your eye is off-center behind the scope, parallax occurs. This is because the line of sight from the eye to the focused target image does not coincide with the reticle aiming point.

The Crossfire® II crossbow scope’s parallax setting is set at 75 yards and will have minimal parallax at distances from 35 to 125 yards. At distances closer than 30 yards, there may be a very slight shift of the reticle on the target (parallax) if your eye is not centered directly behind the scope’s eyepiece. This shift can be eliminated by keeping your eye centered behind the scope when shooting.
CROSSBOW SCOPE MOUNTING

The Crossfire® II crossbow scope comes with 30mm mounting rings.

Eye Relief And Reticle Alignment

Install the bottom ring halves on the mounting base. Place the scope on the bottom ring halves and loosely install the upper ring halves. Before tightening the scope ring screws, adjust for comfortable eye relief:

1. Set the scope to maximum magnification.
2. Slide the scope as far forward in the rings as possible.
3. Look through the scope while in your normal shooting position and slowly slide the scope towards your eye. Stop sliding the scope when you see the full field of view.
4. Without disturbing the front-back placement, rotate the scope until there is an exact match between the vertical crosshair of the reticle and the vertical axis of the crossbow. Use a reticle leveling tool, a weight hung on a rope, flat feeler gauges, or a bubble level to help with this procedure.

Note: After aligning the reticle, tighten and torque the ring screws. Vortex Optics recommends a torque setting of 15-18 in/lbs on the ring screws. DO NOT use a thread locking compound on the threads. Thread locking agents lubricate the threads, which can increase the applied torque.

XBR-2 RETICLE

The XBR-2 reticle can be used for targets ranging from 20-100 yards and is designed for a 40-yard zero on the center crosshair. For the crossbow’s reticle yardage marks to be accurate, match the FPS on the magnification ring to your crossbow’s FPS setting. For example, the reticle subtensions will be accurate at 4x magnification for a 380 FPS crossbow.
To avoid arrow loss, begin the initial sight-in at 6 yards. Due to arrow trajectory, this will also closely equal the desired 40-yard zero.

**Note:** If zeroing your crossbow at 40 yards, use any magnification setting (40 yards is the center of the reticle). If zeroing at any other range, set the magnification ring to match your crossbow’s speed setting.

**Step 1**

1. Support the crossbow very solidly using a rest or soft bags. Be sure limbs and bowstring are clear of the rest.

2. Set the magnification ring to a low power, 2-4x, then aim and shoot from 6 yards. Try to keep your eye centered behind the eyepiece in order to reduce the effects of parallax at this very close range.

3. While looking through the scope, use the windage and elevation turret dials to move the reticle crosshair from the original aiming point to the place the arrow struck. When dialing, use the up and down directional arrows on the turret dials for reference. Rotate the turrets in the direction you wish the reticle to go. While doing this adjustment, it is very important that the crossbow is solidly supported and does not shift position.

   **Note:** Each turret click is ½ MOA.

4. Shoot a second arrow to confirm adjustment. Repeat procedure if necessary.

**Example**

The arrow strike is 2 inches high and 4 inches to the right of center.

1. With bow solidly supported, look through the scope and turn the elevation dial “down” which will make the reticle appear to rise to the height of the arrow strike.

2. With the bow solidly supported, look through the scope and turn the windage dial “left” which will make the reticle appear to move right towards the location of the arrow strike.
Step 2
Move the target back to 40 yards. Due to trajectory arc, the initial 6-yard zero will closely correspond to the desired final 40-yard zero. Be sure to keep your eye centered behind the eyepiece.

1. Support the crossbow very solidly using a rest or soft bags. Be sure limbs and bowstring are clear of the rest.

2. Set the magnification ring to 7x magnification, then aim and shoot from 40 yards. Try to keep your eye centered behind the eyepiece in order to reduce the effects of parallax.

3. While looking through the scope, use the windage and elevation turret dials to move the reticle crosshair from the original aiming point to the place the arrow struck. When dialing, use the up and down directional arrows on the turret dials for reference. Rotate the turrets in the direction you wish the reticle to go. While doing this adjustment, it is very important that the crossbow is solidly supported and does not shift position.

4. Shoot a second arrow to confirm adjustment. Repeat procedure if necessary.

Tuning the FPS Indicator
When shooting beyond 40 yards using the BDC, it is good practice to tune the FPS ring to your bow.

1. Set your magnification/FPS ring to your bow’s advertised FPS.

2. Set a target at your desired distance (e.g. 60 yards) The greater the distance being shot, the more effective the tuning will be.

3. While shooting from a very stable position, such as using sandbags for support, and aiming with the 60-yard reticle mark on the bullseye, fire a shot at your target.

4. With the bow very solidly supported and while still looking through the scope, with the 60-yard reticle mark on the bullseye, look for your point of impact. Adjust the magnification so your 60-yard reticle mark matches the point of impact. It is very important that the crossbow does not move while doing this.

5. If point of impact is low, adjust magnification down. If point of impact is high, adjust magnification up.

Example:
Using the 60-yard reticle mark, your arrow misses the bullseye low. While still looking through the scope, and without moving the crossbow (60-yard reticle mark still on the bullseye), adjust the magnification/FPS ring down until the 60-yard reticle mark corresponds with your point of impact.

6. Repeat these steps after adjusting the magnification ring to verify your adjustment.

Tip: Use a silver permanent marker to mark the scope housing and the magnification ring to easily adjust the scope to the correct setting for your crossbow.

Note: If it is necessary to fine tune left or right hits, this may be done using the windage turret.
MAINTENANCE

Cleaning

The Vortex® Crossfire® II crossbow scope requires very little routine maintenance other than periodically cleaning the exterior lenses. Clean the scope’s exterior by wiping with a soft, dry cloth. When cleaning the lenses, be sure to use products that are specifically designed for use on coated optical lenses.

• Be sure to blow away any dust or grit on the lenses prior to wiping the surfaces.
• Using your breath, or a very small amount of water or pure alcohol, can help remove stubborn things like dried water spots.

Lubrication

All components of the Vortex® Crossfire® II are permanently lubricated, so no additional lubricant should be applied. If possible, avoid exposing your Vortex® crossbow scope to direct sunlight or any very hot location for long periods of time.

Note: Other than removing the turret caps and turret, do not attempt to disassemble any scope components. Disassembling the scope may void the warranty.

VIP WARRANTY

OUR UNCONDITIONAL PROMISE TO YOU.

We promise to repair or replace the product. Absolutely free.

‣ Unlimited.
‣ Unconditional.
‣ Lifetime Warranty.

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Note: The VIP Warranty does not cover loss, theft, deliberate damage, or cosmetic damage not affecting product performance.

For additional and latest manuals, visit VortexOptics.com