



PRODUCT MANUAL

**CROSSFIRE<sup>®</sup> II**

2-7x32 SFP CROSSBOW SCOPE KIT

## SPECIFICATIONS

<b>CONFIGURATION</b>	<b>2-7x32</b>
<b>RETICLE</b>	XBR®-2 MOA
<b>FOCAL PLANE</b>	Second Focal Plane
<b>ILLUMINATION SETTINGS</b>	Yes
<b>EYE RELIEF</b>	2.7"
<b>LINEAR FIELD OF VIEW (@100 YDS.)</b>	57.5' - 16.4'
<b>TURRET STYLE</b>	Capped
<b>TUBE SIZE</b>	30mm
<b>ADJUSTMENT GRADUATION</b>	1/2 MOA
<b>TRAVEL PER ROTATION</b>	30 MOA
<b>MAX ELEVATION ADJUSTMENT</b>	160 MOA
<b>MAX WINDAGE ADJUSTMENT</b>	160 MOA
<b>PARALLAX SETTING</b>	75 yds.
<b>LENGTH</b>	9.5"
<b>WEIGHT</b>	14.0 oz.



## DIMENSIONS

<b>OVERALL LENGTH</b>	L1	9.5"
<b>FRONT MOUNTING SURFACE</b>	L2	1.7"
<b>REAR MOUNTING SURFACE</b>	L3	1.5"
<b>OVERALL MOUNTING SURFACE</b>	L4	4.5"
<b>OBJECTIVE LENGTH</b>	L5	2.0"
<b>EYEPIECE LENGTH</b>	L6	3.1"
<b>OUTSIDE DIAMETER OBJECTIVE</b>	H1	1.6"
<b>OUTSIDE DIAMETER EYEPIECE</b>	H2	1.5"
<b>MAGNIFICATION RING OUTSIDE DIAMETER</b>	H3	1.6"
<b>TURRET SADDLE DEPTH</b>	H4	0.09"

## CROSSFIRE® II CROSSBOW SCOPE KIT

First light, last light, and all day long, this crossbow topper will have you stacking bolts and filling tags in no time. 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 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. It's a Crossfire®, so you know it's built for the field.



Images are for representation only. Product may vary slightly from what is shown.

## INITIAL SET UP

### Ocular Focus – Fast-Focus Eyepiece

The ocular focus is typically 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. When setting up a scope, this should be the first adjustment you make and should only need to be changed from user to user, or if your eyesight changes over time.

### Ocular Focus – Fast-Focus Eyepiece Adjustment

The Crossfire® II 2-7x32 SFP Crossbow Scope uses a Fast-Focus Eyepiece designed to easily adjust the focus on the scope's reticle.

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

### Adjusting the Reticle Focus to Your Eye:

1. Turn the Magnification Adjustment Ring to the highest power. Looking through the optic, turn the Fast-Focus Eyepiece counterclockwise until the reticle is slightly blurry.



2. While looking at a white wall or a clear blue sky, taking short glances through the optic, turn the Fast-Focus Eyepiece clockwise until the reticle is clear and crisp as soon as you look through the optic. This may take several attempts.

**Note:** You do not want your eye to focus to the reticle, rather you want the reticle in focus to your eye instantly when looking through the optic. Looking away and letting your eyes refocus is important in getting the Fast-Focus Eyepiece set correctly.

Once this adjustment is complete, it will not be necessary to refocus every time you use the scope. However, because your eyesight may change over time, you should recheck this adjustment periodically.

### Parallax

Parallax results when the target image is not 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-axis behind the optic.

### Fixed Parallax

The Crossfire® II 2-7x32 Crossbow Scope comes equipped with a fixed parallax at 75 yards.

With a fixed parallax, the shooter may experience small amounts of parallax error inside and outside of the fixed yardage, or if the shooter is off-axis behind the optic. If the shooter is perfectly aligned behind the optic, or at the parallax setting's yardage, there should be no parallax error.

### Magnification Adjustment

The Magnification Adjustment Ring is used to change the scope's "power." The Crossfire® II 2-7x32 Crossbow Scope is a variable powered optic with a 3.5x optical design. (E.g. 2-7x)

The Magnification Adjustment Ring also indicates the FPS for the crossbow. Yardage marks on the reticle will be accurate when setting the FPS on the Magnification Adjustment Ring aligns with your crossbow's FPS setting.

To adjust your optic's magnification or FPS (feet per second), rotate the Magnification Adjustment Ring clockwise, or counterclockwise, to increase or decrease the magnification or FPS to your desired level.



**Note:** The Crossfire® II 2-7x32 Crossbow Scope must be set to the magnification that aligns with your crossbow's FPS setting for the yardage marks in the XBR®-2 reticle to be accurate.

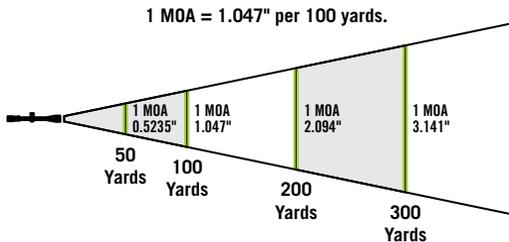
## TURRETS

The Crossfire® II 2-7x32 Crossbow Scope is offered in Minute of Angle (MOA). The Crossfire® II 2-7x32 Crossbow Scope has a matching reticle/turret configuration.

**Note:** The top of both the windage and elevation turret will state what unit the scope is laid out in.

### Minute of Angle (MOA) Adjustment

Minute of Angle is an angular unit of measurement commonly found in scopes. It is used to measure bullet drop, wind holdovers, and for measuring targets. Both the reticle and turrets will be laid out in specific MOA values. 1 MOA equates to 1.047" at 100 yards, 2.09" at 200 yards, 3.14" at 300 yards, etc. Being an angular unit of measurement, the value of 1 MOA will increase/decrease proportionally as you increase/decrease the distance you are shooting. For this reason, think about all of your adjustments in MOA, rather than a linear unit such as inches. If your turret, reticle, and drop chart are all laid out in MOA, adjusting your scope for bullet drop or windage corrections is extremely easy.



### Elevation and Windage Turrets

Use turrets to adjust the arrow's point of impact. The Crossfire® II 2-7x32 Crossbow Scope uses a 1/2 MOA on both the Windage and Elevation Turrets. Each click will move the arrow's point of impact roughly .5" at 100 yards. The turret on the top of the scope is the Elevation



Turret, which is used to adjust the arrow's point of impact up and down. The turret on the right-hand side of the scope is the Windage Turret and is used to adjust the arrow's point of impact left and right.

### Capped Turrets

The Crossfire® II 2-7x32 Crossbow Scope comes equipped with capped turrets. This protects the turrets from accidental adjustment while out in the field, in transit, or in storage. You will need to remove the caps prior to making any adjustments on the turrets.

**Note:** The scope is still waterproof with the caps removed.

### Adjusting Capped Turrets:

1. Remove the turret caps by spinning them counterclockwise.
2. Following the directional arrows, turn the dials in the direction you wish the arrow's point of impact to change. (If you hit high, dial down. If you hit low, dial up. If you hit right, dial left. If you hit left, dial right.)
3. When finished adjusting, replace the turret caps.

**Note:** The reticle will move in the opposite direction of the turret dials. When you dial up, the reticle will move down, forcing you to aim higher, changing your point of impact upward.

### Illumination

The Crossfire® II 2-7x32 Crossbow Scope uses a reticle illumination system with both red and green illumination options and variable levels of intensity to aid in low-light performance.



Illumination Control Knob

#### To Turn Illumination On

To activate the illumination, rotate the Illumination Control Knob in either direction.

#### To Adjust Illumination Brightness

Once the illumination is on, continue to rotate the Illumination Control Knob for continuous adjustment between the levels of brightness intensity.

#### To Turn Illumination Off

To turn the illumination off, dial the Illumination Control Knob to the "R" or "G" off setting between each of the colors.

**Note:** When the illumination is off, the reticle will appear black.

### Battery Installation/Replacement

To install/change the battery on the Crossfire® II 2-7x32 Crossbow Scope, unscrew the Illumination Control Knob's cap and install a new CR2032 battery with the positive side (+) facing out.

#### Replacing the Battery

1. Unscrew the cap by spinning counterclockwise.
2. Remove the CR2032 battery.
3. Replace with a new CR2032 battery with the positive side (+) facing out.
4. Reinstall the battery cap by spinning clockwise until tight.



## CROSSBOW SCOPE MOUNTING

To get the best performance from your scope, proper mounting is essential. Although not difficult, the correct steps must be followed. If you are unsure of your abilities, use the services of a qualified archery shop.

### Mounting Checklist

- Vise or a solid platform for your crossbow
- 30mm Rings (included)
- Torque wrench
- Reticle leveling tool(s) (such as feeler gauges or bubble levels and a plumb bob)

#### Recommendation:

Pick up the Vortex Pro Torque Wrench, which comes with the complete set of bits needed to install Vortex® scopes and rings and the Vortex Pro Leveling Kit.



### Rings and Bases

The Crossfire® II 2-7x32 Crossbow Scope features a 30mm main tube. 30mm rings are included with the scope to ensure proper mounting.



### Eye Relief and Reticle Adjustment

After installing 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 maximum eye relief to avoid injury.

1. Set the scope to its highest magnification.
2. Move the scope fore and aft in the rings until you achieve a full, unobstructed sight picture.
3. Without disturbing the fore-aft placement, rotate the scope until the reticle is level. Use a leveling tool(s) such as feeler gauges or bubble levels and a plumb bob to aid in this process.
4. After leveling the reticle, tighten and torque the ring screws down per manufacturer's instructions. Use caution and do not over-tighten ring screws.

**Note:** We typically suggest 15-18 in-lbs of torque on the ring screws. For base clamp screws on the rings, we suggest 30 in-lbs of torque. We do not recommend liquid thread-locking compound on the ring screws.

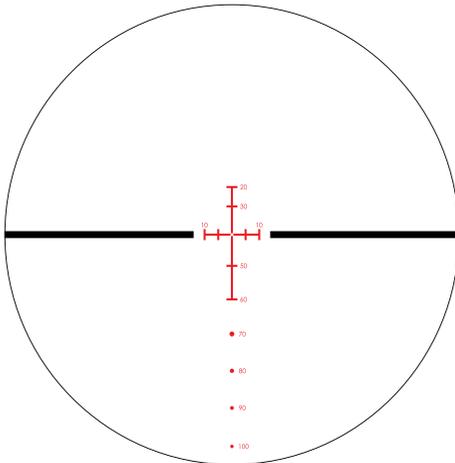
If you have questions about a specific setup, please call our Technical Department at:

**1-800-4VORTEX (1-800-486-7839) Ext. 1**

## 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 XBR®-2 yardage marks to be accurate, match the FPS on the magnification ring to your crossbow's FPS setting. Reference the table below to see which magnification setting aligns with your crossbow's FPS setting.

MAGNIFICATION	FPS (FEET PER SECOND)
2x	275
3x	330
4x	380
5x	425
6x	450



## SIGHTING IN YOUR CROSSBOW SCOPE

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 6 yards or 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.

### Initial Sight-In

1. Place the crossbow on a solid rest, ensuring the limbs and bowstring are clear of the rest.
2. Rotate the Magnification Adjustment Ring to a low magnification (2x-4x). Following all safe shooting practices, aim and shoot from 6 yards.

**Note:** Keeping your eye centered behind the eyepiece will reduce effects of parallax at this close range.

3. While looking through the scope, use the Windage and Elevation Turrets to move the reticle crosshair from the original aiming point to the place where the arrow struck. Be sure to read pages 9 and 10 prior to adjusting.
4. Shoot another arrow to confirm the adjustment. This procedure may be repeated as many times as necessary until your point of impact and point of aim are in the same place, and you have achieved a perfect zero.

## Final Sight-in

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.

1. Place the crossbow on a solid rest, ensuring the limbs and bowstring are clear of the rest.
2. Rotate the Magnification Adjustment Ring to 7x magnification. Following all safe shooting practices, aim and shoot from 40 yards.
 

**Note:** Keeping your eye centered behind the eyepiece will reduce effects of parallax at this close range.
3. While looking through the scope, use the Windage and Elevation Turrets to move the reticle crosshair from the original aiming point to the place where the arrow struck. Be sure to read pages 9 and 10 prior to adjusting.
4. Shoot another arrow to confirm the adjustment. This procedure may be repeated as many times as necessary until your point of impact and point of aim are in the same place, and you have achieved a perfect zero.

Once your scope is zeroed, adjust the Magnification Adjustment Ring to align with your crossbow's FPS setting.

## Reindexing the Elevation and Windage Turrets

After the crossbow and scope have been zeroed in, the elevation and windage dials should be reindexed to their zero indicators. This will allow you to accurately keep track of elevation or windage corrections dialed on the turrets in the field, and quickly return to an original zero-point setting.

### To Reindex Capped Turrets

1. Remove the outer cap. While firmly holding the dial, loosen and remove the center screw.
2. Lift the dial off the scope. Orient the dial to align the zero mark on the index line.
3. Install the dial and reinstall and tighten the center screw while firmly holding the dial.



## MAINTENANCE

### Cleaning

Your Vortex® crossbow scope requires very little routine maintenance other than periodically cleaning the exterior lenses. The scope's exterior may be cleaned by wiping with a soft 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 dried water spots.

### Lubrication

All components of the scope are permanently lubricated, so no additional lubricant should be applied.

**Note:** Other than removing the Turret Caps, do not attempt to disassemble any components of the scope. Disassembling of scope may void warranty.

### Storage

If possible, avoid storing your scope in direct sunlight or any very hot location for long periods of time.

## TROUBLESHOOTING

Please consult the following list prior to returning a scope for service. Many times, a problem thought to be with the scope is a mounting issue. Be sure the correct rings and bases are being used and that they are properly torqued to the crossbow. Be sure there is no free play in the scope, base, or rings

### Common Issues

#### Point of Impact is Inconsistent or Changes Drastically After Turret Adjustment

- Verify that the ring screws are not over-torqued. Ring screws should only be torqued to Vortex® recommendations, and no thread-locking compound or lubricants should be applied. Over-torquing ring screws will cause excess pressure on the tube, which may cause problems when making turret adjustments.
- Remove the scope from the rings and visually check the scope tube for slide marks, and/or indentations from over-torqued, or out-of-spec rings.
- Be sure that the base is tightened using thread-locking compound to the top of the crossbow to manufacturer's specifications.

#### Cannot Focus on the Reticle and Target

- Check and reset the ocular focus for the shooter's eye. See Ocular Focus – Fast-Focus Eyepiece Adjustment on page 5.

#### Reticle is Moving in the Wrong Direction

- The reticle will always move opposite of the turrets. Markings on the turrets indicate point of impact change. If you dial down on the turret, the reticle will move upward, forcing you to move the crossbow down, to change your point of impact downward.

## SAFETY AND PRECAUTIONS

The Crossfire® II 2-7x32 Crossbow Scope contains a 3V CR2032 battery.

### ⚠️ WARNING

- **INGESTION HAZARD:** this product contains a CR2032, 3V button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **INTERNAL CHEMICAL BURNS** in as little as **2 HOURS**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- **SEEK IMMEDIATE MEDICAL ATTENTION** if a battery is suspected to be swallowed or inserted inside any part of the body.



- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.

- If ingested, call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

## NOTICE

### Virtual Patent Marking Notice By Vortex Optics

This product may be protected by patents in the U.S. and elsewhere for Vortex Optics. <http://vtx.legal> website is provided to satisfy the virtual patent marking provisions of various jurisdictions including the virtual patent marking provisions of the America Invents Act and provide notice under 35 U.S.C. §287(a). Please visit <http://vtx.legal> to view list of products that may be covered by one or more U.S./Foreign patents or published patent applications.



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For the most up to date manual visit  
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M-00288-2

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