

**User Manual of Product 1:**

Vortex Optics Crossfire Red Dot Sight Gen II- 2 MOA Dot  
(CF-RD2)

**User Manual of Product 2:**

Vortex Optics VMX-3T 3X Red Dot Sight Magnifier with Built-In  
Flip Mount



# CROSSFIRE®

RED DOT



### THE CROSSFIRE® RED DOT SIGHT

The Crossfire® Red Dot with daylight-bright red dot lends itself to a variety of firearm platforms including AR's, shotguns and pistols. The multi-height base offers different mounting heights for user- and weapons-specific customization.



Dual Use: Shooting Tactical / Hunting

Patent Pending

Please read entire manual before using your new optic.

## RED DOT ADJUSTMENTS

### Battery Installation

Remove the battery compartment cover. Install one CR2032 battery so the “+” lettering faces outward and replace the cover. When replacing the cover, be sure it is fully screwed down.



### Powering Up

Turning the illumination dial on Crossfire® Red Dot will turn the unit on. Align the number with the Indicator Dot to turn the unit on.

### Brightness Adjustments

The Crossfire® Red Dot sight offers eleven variable illumination settings. Adjust the dot brightness by turning the illumination dial to the desired level. There are two night vision compatible settings marked N1 and N2 on the illumination dial.

### Typical Battery Life

The Red Dot uses a CR2032 battery. The typical battery life depends on the brightness intensity setting of the dot.

DOT COLOR	MEDIUM BRIGHTNESS AT MIDDLE SETTING
Bright Red Dot	50,000 Hours

### Windage and Elevation Adjustments

The Crossfire® Red Dot incorporates elevation and windage dials with audible clicks. Each small click will move the point-of-impact one Minute of Angle. 1 MOA will closely correspond to one inch at 100 yards, 1/2 inch at 50 yards, 1/4 inch at 25 yards, etc.

**EXAMPLE:** At a 50 yard sight-in distance, it will take twelve clicks of the dial to move the bullet's point-of-impact six inches.

### **Making Elevation and Windage Adjustments**

Remove the turret cap and use the raised bar on the cover or a coin to turn the adjustment dial. Move the dials in the direction you wish the bullet's point-of-impact to change. Turning the elevation turret counter-clockwise will raise the elevation. Turning the windage turret clockwise will move the point of impact to the left.

### **Mount Height Options**

The Crossfire® Red Dot can be mounted on a variety of platforms using the high mount or low mount.

**NOTE:** To ensure the attachment screws do not loosen under use, we recommend using a thread locker compound.

### **Mounting Tips**

When changing mounts, use the included wrench to loosen or tighten the four screws attaching the mount to the Crossfire® Red Dot.

### **Mounting the Crossfire® Red Dot**

To get the best results from your Crossfire® Red Dot, proper mounting is essential and, although not difficult, the correct steps must be followed. Your firearm will need to be equipped with a Picatinny® or Weaver® style rail/base. If needed, these may be purchased at most firearms dealers.

- Attach the unit to the rail/base with the illumination dial positioned on the right side.
- Make sure the mount is solidly seated in the base groove. In order to prevent recoil injury, position the Red Dot so you have at least four inches of eye relief.
- Be sure the base clamp is hooked around the outside of the rail/base.
- Press the Red Dot downward and forward toward the muzzle. Then, firmly tighten the base clamp bolt using the hex wrench.

**NOTE:** It is a good practice to regularly re-check all mounting screws to be sure they haven't loosened under field conditions.

## SIGHTING IN

### Bore Sighting

After mounting, an initial bore sighting of the Crossfire® Red Dot at short range (25–50 yards) will save time and money at the range. This can be done using a bore sighter according to the manufacturer's instructions, or by removing the bolt on some rifles to visually sight through the barrel.

#### To visually bore sight a rifle:

1. Place the rifle solidly on a rest and remove the bolt.
2. Sight through the bore and center the target inside the barrel.
3. With the bulls eye centered in the bore, make windage and elevation adjustments until the illuminated dot is also centered over the bulls eye.

### Final Range Sight-In

Final sight-in should be done at the range using the exact ammunition you expect to hunt or shoot with:

1. After bore sighting the Red Dot, fire a shot or two at your desired zero distance to check that you're roughly on target. **If necessary, adjust the dot to put you near the center of the target** (see **Windage and Elevation Adjustment** on page 6).
2. Fire a three-shot group as precisely as possible.
3. Using the center of this group as a reference, make any necessary adjustments for windage and elevation correction. Using arrows for reference, adjust dials in the direction you wish the group to move.
4. Fire a final three-shot group to confirm proper adjustment. Repeat as necessary.

## SHOOTING WITH THE CROSSFIRE

The key thing to remember when shooting with the Crossfire® Red Dot is to keep both of your eyes open! Shooting with both eyes open allows you to take full advantage of your peripheral vision to get on target very quickly. Eye placement is not critical. As long as you can see the dot, you'll hit your target!

**NOTE:** If using an optional magnifier for distance shooting, you may find it easier to shoot with one eye closed due to the increased magnification.

## TROUBLESHOOTING

Please check the following before returning the Red Dot for service.

### If the red dot does not illuminate:

- Is the battery dead? Replace.
- Is the battery installed correctly? Be sure the battery is oriented with “+” lettering facing the cover.
- Is the battery cover loose? Be sure cover is snug and contact points are clean.

### If bullets are not grouping:

- Be sure all mount screws are tight. You should not be able to twist or move the Red Dot in any direction. Many times, problems thought to be with the scope are actually mount problems.

**NOTE:** Our **Troubleshooting Guide** is available online at <http://www.vortexoptics.com/content/troubleshooting>.

## MAINTENANCE

### Cleaning

Your Red Dot will require very little routine maintenance other than periodically cleaning the exterior lenses. If desired, the exterior may be cleaned 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 such as the VTX Lens Pen and Fog Free Cleaning Kits.

- 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 are permanently lubricated, so no additional lubricant should be applied.

**NOTE:** Do not attempt to disassemble any components of the Red Dot.

### Storage

Use the included lens cover to protect the lenses when not in use.

- Remove the battery before putting in storage for extended periods.
- Avoid storage in direct sunlight or in any very hot location.
- Storage and use in extreme cold will shorten battery life.



Low Mount



High Mount /  
Lower 1/3 Co-Witness



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# VMX-3T™

**3X MAGNIFIER**



# VMX-3T™

## 3X MAGNIFIER

### THE VMX-3T MAGNIFIER

Offering 3x magnification along with durable construction, the Vortex VMX-3T with included Flip Mount can quickly add extended range ability to red dot sights.



VMX-3T with Flip Mount



# VMX-3T<sup>™</sup>

## 3X MAGNIFIER

### MOUNTING THE VMX-3T MAGNIFIER

#### Attach VMX-3T to Flip Mount

Using the included screws, attach the VMX-3T magnifier to the Flip Mount. Ocular lens and Release Button should face shooter.

#### Mount height options

With the included flip mount and shim, there are two options for mounting the VMX-3T:

##### Absolute Co-Witness Height with Flip Mount

Positions the VMX-3T at 37 mm from the base surface to the center of the optic. This puts the dot height at a center (absolute) sight picture when co-witnessed with standard AR-15 iron sights. For this height, **do not** install the included shim plate.

##### Lower 1/3 Co-Witness Height with Flip Mount and Shim Plate

Positions the VMX-3T at 40 mm from the base surface to the center of the optic. This puts the dot height at a lower 1/3 sight picture when co-witnessed with standard AR-15 iron sights. For this height, install the included shim plate between the VMX-3T and the Flip Mount.



#### VMX-3T with Flip Mount

For a lower 1/3 co-witness height, attach the shim plate between the flip mount and the VMX-3T.





## VMX-3T ADJUSTMENTS

### Center the red dot image

The VMX-3T is easy to use and does not require any special sight-in—just zero-in the red dot as normal and add the VMX-3T behind for additional 3x magnification.

The dot-centering screws can be used to help center the red dot in the VMX-3T's field of view. After the VMX-3T is mounted in front of red dot scope, the dot may seem off-centered while viewing through the VMX-3T. This will not affect the point-of-impact. If desired, the centering screws can be used to move the dot up/down or left/right until the dot is more centered. *Do not force screws once resistance is felt and the end-of-travel range has been reached.*



**Note:** Perfectly centering the red dot in the VMX-3T is not required for accuracy. Once the primary red dot optic has been sighted in using its own adjustments, the adjustments done to the VMX-3T using the centering screws will not affect the point-of-impact.



# VMX-3T™ 3X MAGNIFIER

## Adjust the focus

Use the focus knob to achieve a sharp image. Turn the focus dial clockwise or counter-clockwise until image is as sharp as possible.



## Using the flip mount

To use the included flip mount, simply push on the release button and flip the VMX-3T off to the side.





# VMX-3T<sup>™</sup>

## 3X MAGNIFIER

## MAINTENANCE

### Keep lenses clean

For the best viewing, regularly clean the exterior lenses:

- Remove any dust or grit from the lens before wiping. Use a can of pressurized air, soft camel hair brush or an acrylic optical brush.
- Clear lenses of smudges, fingerprints or eyelash oil. Fog the lens with your breath, then use a non-abrasive lens cloth\* to clean the lens.

**Note:** \*Never use facial tissue, heavy cotton, or flannel fabric—these materials can scratch the surface of a lens. Use lens cleaning fluid and optical tissue or cloth to clean lenses.

### Lubrication

All components of the VMX-3T are permanently lubricated, so no additional lubricant should be applied.

### Storage

If possible, avoid long term storage of the VMX-3T exposed to direct sunlight or any very hot location. Over time, prolonged high temperatures can adversely affect internal lubricants.

## THE VIP WARRANTY

We build optics based on our commitment to your absolute satisfaction. That's why Vortex products are unconditionally guaranteed and we make this Very Important Promise to you—a Very Important Person.



Rest assured that in the event your VMX-3T becomes damaged or defective, Vortex Optics will repair or replace the scope at no charge to you. Call Vortex Optics at 800-426-0048 for prompt, professional, and friendly service.

### Vortex Optics

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Visit [www.vortexoptics.com](http://www.vortexoptics.com) for more information. Canadian customers may visit [www.vortexcanada.net](http://www.vortexcanada.net) for customer service information.

**Note:** Do not attempt to disassemble any components. The VIP warranty does not cover theft, loss, or deliberate damage to the product.

# VORTEX®

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#VMX-3T-12A  
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