



# CROSSFIRE®

RED DOT



Dual Use: Shooting Tactical / Hunting

Patent Pending

## 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.

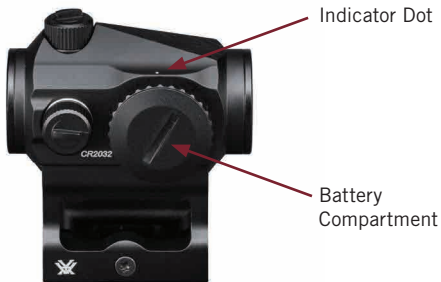


Please read entire manual before using your new optic.

## 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.

<b>DOT COLOR</b>	<b>MEDIUM BRIGHTNESS AT MIDDLE SETTING</b>
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



## **VIP WARRANTY**

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the product. Absolutely free.

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



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