



**RITON**  
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**RITON**

**RT-R Mod 3**

**RRD**

**(Rifle Red Dot) Manual**



## RITON RT-R Mod 3

RRD

(Rifle Red Dot)

Thank you for choosing a quality RITON red dot optic. This manual is designed to help you get the fullest potential out of your new RITON optic and to ensure you have years of trouble free use.

Made from a single piece of aircraft-grade aluminum. Your RITON RT-R Mod RRD optic is waterproof, fogproof and the lenses are fully multi-coated. It has been tested to withstand up to 1200 G force of impact as well as being sealed with O rings and Nitrogen purged and sealed for fog and water protection. It has unlimited eye relief, easy to use capped adjustment knobs for elevation, windage and side illumination control knob.



## RITON RRD SET UP

### Battery Installation:

Remove the battery compartment cover. Place the CR2032 battery so the positive end faces outward, then replace the cover. When replacing the cover, ensure that the cover is fully screwed down and that the o-ring seal is in place to maintain the waterproofing.

### Power / Brightness Settings:

To turn on your RITON RRD, twist the numbered knob from the off position to the number 1 position. To adjust brightness setting simply twist the numbered knob to the next numbered position until desired brightness is achieved.

### Windage and Elevation

The RITON RRD incorporates elevation and windage dials with audible clicks. Each small click will move the point-of-impact 1 Minute of Angle (MOA). 1 MOA will correspond to 1 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 2 clicks of the dial to move the bullet's point-of-impact one inch.

### Adjusting the Windage and Elevation:

#### Remove the dial covers:

- Use a coin or screw driver to make the adjustments.
- Turn the adjustment dial in the appropriate direction as indicated by the arrow on the dial. Move the dial in the direction you wish the bullet's point-of-impact to change.

#### Elevation Adjustment:

Remove the small turret cap on the top of the RRD and turn the inner turret counter-clockwise to adjust bullet's point-of-impact up; turn the inner turret clockwise to adjust bullet's point-of-impact down.



### **Windage Adjustment:**

Remove the small turret cap on the side of the Red Dot and turn the inner turret counter-clockwise to adjust the bullet's point-of-impact to the right; turn the inner turret clockwise to adjust the bullet's point-of-impact to the left.



### **Mounting Your RITON RRD:**

To get the best possible performance from your RITON RRD, proper mounting is essential and, although not difficult, the proper steps must be followed. Your firearm will need to be set up with a Picatinny or Weaver style rail/base. If your firearms is not set up with either one these they may be purchased at most firearms dealers. If you are unsure of your capabilities, it would be best to use the services of a qualified gunsmith. The mounted height of the RITON RRD will vary according to the weapon you have purchased:

- The included cantilever ring mount puts the optic bore center 45 mm above the base, providing lower 1/3 co-witness with iron sights on flat top AR-15 style rifles.

The RITON RRD comes with a cantilever ring mount. To attach the RED DOT mount:

1. Loosen the nut on the bottom of the RED DOT base. Then attach the lower half to the rail/base and make sure this is solidly seated in the base groove. To prevent recoil injury, position the ring so that you have at least four inches of eye relief.
2. Be sure the base clamp is hooked around the outside of the rail/base. Press downward and forward toward the muzzle. Then, firmly tighten the base clamp hex nut to 35-45in/lbs torque.

### **Sighting in your RRD:**

Sighting in at short range (25–50 yards) will save time and money at the range. This can be done using a bore sight 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 bullseye centered in the bore, make windage and elevation adjustments until the illuminated dot is also centered over the bullseye. Shooting with your RITON RRD, remember to keep both your eyes open! Shooting with both eyes open allows you to take full advantage of your peripheral vision to achieve 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.*

### **Final Sight in:**

1. After the Red Dot has been bore sighted, 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.
2. Fire a two to 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 two to three-shot group to confirm proper adjustment. Repeat if necessary.
5. Make sure all caps are securely fastened after final sight in.

### **Parrallax:**

The parrallax for the RITON RRD is set at 50 yards.

### **Reticle:**

The reticle for the RITON RRD is a 2 MOA Illuminated Red Dot.

### **Troubleshooting:**

Please check the following before returning a scope 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 the + 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 move the Red Dot or mount in any direction. Many times, problems thought to be with the scope are actually mounting problems.

**Maintenance/ Cleaning:**

Your RITON RRD requires very little routine maintenance other than to periodically clean the exterior lenses. The exterior of the red dot 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.

- 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.

**Storage:**

Keep lens covers closed to protect the lenses when not in use.

- Remove the battery when 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