



GRiffin OPTICS DIVISION

# RED DOT SIGHT

OWNERS MANUAL



GRiffin  
ARMAMENT

# GRiffin OPTICS DIVISION RED DOT SIGHT

## INSTALLATION & MAINTENANCE GUIDE



**FAILURE TO READ AND UNDERSTAND THIS MANUAL  
PRIOR TO USE MAY RESULT IN INJURY OR DAMAGE**

### WELCOME

Griffin Armament® has been satisfying customers for nearly two decades with innovative and cutting edge sound suppressor technology.

Founded by two brothers and former Army snipers, Griffin Armament knows what precision shooters want; accuracy, durability, and consistency above all else. Our optics are designed, developed, and tested in Wisconsin. Our commitment to quality, performance, and value are pillars of our company and why our products are sought after by discerning owners.



### DISCLAIMER

Neither the manufacturer nor reseller from whom you received the product(s) are responsible for improper use or any resulting damage. Firearms and their accessories can be dangerous if not handled correctly, and it is the user's own responsibility to understand this manual and product for safe operation. If there are any unanswered questions, Griffin's experienced customer service team will gladly assist at (262)-200-0003.



Still have questions? Check out our [video channel](#) for an in-depth briefing on all products and accessories.

### PRODUCT SYNOPSIS

T1/T2 Red Dot Optics continue to be a trusted option for shooters seeking reliability and precision in a compact form. Griffin has expanded its optics lineup to cater to this demand, focusing on delivering exceptional value without compromising on durability or performance. The Griffin Red Dot Sight™ (GRS™) leads the charge in this category, offering 50,000 hours of battery life, precise 1MOA adjustments, 10 brightness levels, and 90MOA of total elevation and windage adjustments.

The GRS™ features a crisp, distortion-free sight picture for optimal viewing, IPX7-rated water resistance, a 4MOA red or green illuminated dot, and convenient auto-off/shake-to-wake functionality. Perfect for short-range carbines, handguns, and as a reliable backup for magnified optics in quick target transitions.

Additionally, the GRS™ is compatible with Griffin's GPM™ scope mount series, easily attaching using the RTO™ T1/T2 mounting plates. These can be positioned either atop the scope or at 45/90-degree offsets based on the user's preference. degree offsets based on user preference.

### SPECIFICATIONS

Model	GRS2R
Magnification	1x
Obj. Lens Diameter	18mm
Lens	Multi Coated Glass
Dot Color	Red
Dot Size	4MOA Single Dot
Adjustments Graduation	1MOA
Max Elevation Adjustment	90MOA
Max Windage Adjustment	90MOA
Parallax Free	100yds
Motion Activation (Shake Awake)	225s after no movement
Shockproof	1200Gs Force
Waterproof	IPX7, 1m for 30mins
Dimensions (LxWxH)	49.5x40.7x64.3mm (H includes Riser Mount)
Weight	130g (Riser Mount & Battery included)
Footprint	T1/T2
Brightness Settings	10 Levels (8 Daytime, 2 NV)
Battery Type	1xCR2032
Battery Loading Way	Side Loaded

## TOOL KIT FOR INSTALLATION



(1) Riser Plate, (1) Flat Plate, (2) Allen Keys (Flathead & T6 Torx),  
(1) CR2032 Battery, (1) Cleaning Wipe, (1) GRS™ Optic

Included with the GRS™ are all the tools necessary for installation and use right out of the box. The included riser mount can be installed to any picatinny rail setup using the included T6 torx allen key to loosen, then retighten the T6 bolt on the riser once installed to the rail. The GRS™ mounts to the included T1/T2 footprint riser in the same fashion, using a T6 Torx clamp screw.

The included flathead allen key can be used to make windage and elevation adjustments via the small flathead knobs on the top and side of the GRS™. Follow the arrows marked on the sight body to make 1MOA adjustments vertically or horizontally.

The GRS™ operates using (1) CR2032 battery which is installed on the right side of the sight. Unscrew the large round cap to access the battery port and install the battery prior to first use. A quarter or other coin can also be useful in removing and installing the battery cap.

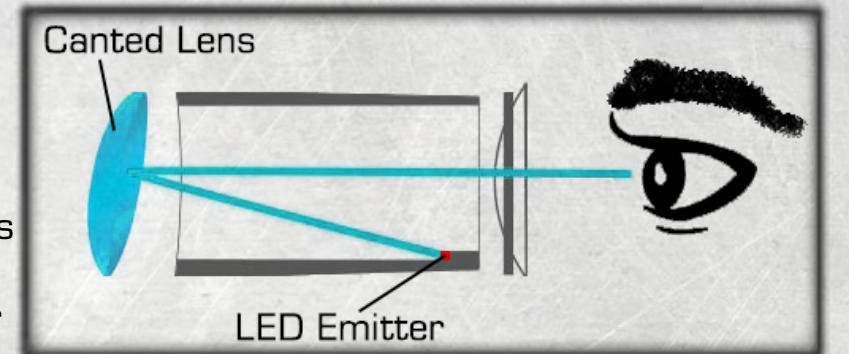
The GRS™ can be mounted directly to any industry standard T1/T2 footprint mount, T1/T2 mount-equipped handgun, or to picatinny rails using the included riser mount. QD mounts are available separately in a variety of heights and can be secured to picatinny rails in seconds.



**CLEAR THE FIREARM PER MANUFACTURER'S  
MANUAL BEFORE PERFORMING MODIFICATIONS**

## OBJECTIVE LENS

Reflex optics operate by reflecting the light of an LED emitter off a reflective objective lens back towards the shooter. To achieve this, the obj. (front) lens is tilted at an angle such that the mirrored surface is perpendicular to the LED source.



Opposed to a normal riflescope, a canted objective lens is integral to the function of reflex optical sights. The LED is positioned near the base of the housing, close to the first lens. The objective lens is canted towards this emitter to properly reflect the light given off from the LED back to the shooter and create the dot image seen by the user.

This canted lens has the added benefit of reducing glare from sunlight reflecting off the objective lens which can give away a shooter's position. Canted lenses are used in all high-quality reflex sights across the industry.

## CLEANING AND MAINTENANCE

- 1) Begin by blowing off debris from lenses using air pressure. This is ideally done with a camera lens blower tool.
- 2) Follow up with camera lens brush, brushing and blowing back and forth as needed until all debris is clear.
- 3) Finish with spraying and wiping off lenses with brand new microfiber towel and lens cleaner of your choosing. Finish with suede polishing tip if desired for perfect smoothness.
- 4) Brush down body to remove any dirt or debris and wipe external body clean.





**FAILURE TO PROPERLY MOUNT YOUR OPTIC MAY  
CAUSE DAMAGE TO YOURSELF OR YOUR FIREARM**

## INSTALLATION OR REPLACEMENT OF BATTERY

- 1] Using a high-quality CR2032 battery can extend battery life up to 50,000 hours at brightness level 5. **Do NOT use a rechargeable battery.**
- 2] Unscrew the battery cap using a small flat object like a coin if necessary.
- 3] Use the included flathead screwdriver to pry loose the old battery.
- 4] Install the new battery by firmly pressing it into the battery housing clamps in the body of the GRS™ with the positive (+) side facing out.
- 5] Re-install the battery cap by screwing it onto the GRS™ and snugging with a coin or other flat object. **Do NOT overtighten battery cap.**



## OPTIC AND MOUNT INSTALLATION

- 1] The GRS™ is compatible with industry standard T1/T2 footprinted mounts.
- 2] Use the included T6 Torx allen key to loosen the clamp screw at the base of the GRS™.
- 3] Mount the GRS™ to the riser and gently snug the screw to 15 in/lbs.
- 4] Loosen the clamp screw at the base of the riser and mount to industry standard picatinny rail.
- 5] Tighten the T6 clamp screw on the riser to secure the mount/optic to the firearm. (15in/lbs.)



**DO NOT LOOK THROUGH THE OPTIC AT BRIGHT  
SOURCES OF LIGHT (E.G. DIRECT SUNLIGHT)**

## SHAKE AWAKE & ADDITIONAL FEATURES

- 1) 10 Reticle Brightness Settings
- 2) 4MOA Dot
- 3) Red or Green Dot Available
- 4) Parallax Free (100yds) Clear Sight Picture
- 5) Fully-Enclosed Aluminum Body
- 6) Auto-Off Battery Saver
- 7) Shake Awake
- 8) IPX7 Water Resistance
- 9) Shockproof (1200 G's)
- 10) Lifetime Mechanical Warranty (2 Year Electronics Warranty)



## ZEROING

Initial zeroing is recommended at 15-25m before moving further out and fine-tuning for longer ranges.

- 1] Fire a 3-shot group and average the point of impact across the group.
- 2] Using the included flathead screwdriver, adjust elevation (top) and windage (side) knobs to correct the point of impact. The direction noted by the arrow denotes the movement of the point of impact.
- 3] Each click/hash mark is a 1 MOA adjustment. Once adjustments are made, fire another 3-shot group to confirm zero of the optic.
- 4] Repeat these steps as necessary.



## WARRANTY STATEMENT

### GRiffin OPTIC PRODUCT LIFETIME LIMITED WARRANTY

Subject to the limitations outlined below, Griffin Armament will repair or replace free of charge any product we manufacture for 2 years (electronics) and lifetime for mechanical. This warranty is unlimited in duration and covers at Griffin Armament's sole discretion, service, repair, and/or replacement of damaged products caused by normal use. Any repair not covered by the warranty will be billed at a maximum of 30% of current MSRP for a comparable optical product.

### LIMITATIONS

Griffin Armament's warranty does not cover loss, normal wear, damage to our product or the host weapon system resulting in whole or in part from abusive or negligent use, unauthorized modifications, or neglect. Finish wear is cosmetic and is not covered by this warranty. Any repairs to the unit made necessary by the above mentioned factors may be invoiced to the owner at a maximum of 30% of current MSRP for the most comparable product. In all cases refer to the product manual for product limitations prior to using a Griffin Armament product. Warranty is subject to change without notice.

To learn more about Griffin Armament® and the kit we provide, please visit us on the web at [www.GriffinArmament.com](http://www.GriffinArmament.com) or keep track of our social media pages:

Instagram

Facebook

YouTube

Rumble



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