



The **Monstrum Tactical S31242-M-RGAO** is a full-featured scope suitable for hunting, target shooting, or tactical use. The scope comes equipped with:



- Adjustable 3-12 times magnification, for targeting out to 600 yards and beyond
- Adjustable reticle illumination with 5 brightness levels in both red and green, allowing for better reticle visibility at night or in low light environments
- ¼ MOA/click windage and elevation adjustment dials with locking turrets
- An adjustable objective lens – or AO - that allows for sharper focus of the target image, elimination of parallax, and range estimation.
- A mil-dot reticle with markings that allows you to estimate range or compensate for bullet drop
- Aircraft grade 6061 aluminum construction, for lightweight and durable performance
- A sealed, nitrogen charged scope tube for resistance to fog and water

## Monstrum Tactical 3-12x42 AO Scope

S31242-M-RGAO

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### Scope Dimensions

The S31242-M-RGAO has a 30mm diameter tube and requires a mount with 30mm diameter scope rings.

### Mounting the Scope:

- 1. Determine the proper eye relief for positioning the scope.** Using the scope's adjustable magnification ring, set the scope to maximum magnification and look through the scope. The optimum eye relief is the farthest distance away from the scope from which you can still see the entire circular field of view. For the S31242-M-RGAO, the eye relief should be approximately 3.5 inches.
- 2. Set your scope rings and position your scope.** Hold your rifle in a comfortable shooting position with your cheek welded to the stock. The scope should be mounted at a comfortable eye relief in relation to this position. Set your scope rings and position the scope accordingly.
- 3. Secure the scope.** Rotate the scope within the rings such that the vertical crosshair is aligned vertically with the rifle. Tighten the rings securely and evenly. If necessary, apply a drop of loc-tite® to the threads of the screws to secure them.

## Focusing the Scope

The first step in focusing your scope, is adjusting the focus ring at the near end of the eyepiece. Please note that adjusting the focus ring does not bring the target image into focus. Adjusting the focus ring only focuses the eye on the reticle.

### To adjust the focus ring:

1. For AO equipped scopes, first set the AO ring adjustment to infinity ( $\infty$ ).
2. With the scope pointed toward a blank wall or the sky, look through the scope and adjust the focus ring until the reticle is in sharp focus.

## For AO Scopes

AO stands for adjustable objective. An AO scope is a scope with an adjustable objective lens. What does that mean?

For non-AO scopes (scopes with a fixed objective lens), targets will only be in focus and parallax free with the reticle at a fixed distance (commonly 100 yards for consumer scopes). Targets at other distances will be out of focus and parallax will come in to play. This means that for targets at other distances the position of the reticle in relation to the target will shift slightly when you move your head, resulting in less accurate shooting.

An AO scope allows you to adjust the objective lens of the scope, bringing the target image into focus with the plane of the reticle. An AO scope, when properly focused, will (1) bring your targets into sharper focus (2) eliminate parallax and (3) gather ranging information about your target.

### Using the AO ring:

1. Look through your scope at your desired target.
2. Adjust the AO ring until the target image is at its sharpest focus.
3. Confirm that the sight picture is parallax free. To confirm this, move your eye slightly from side-to-side. The reticle should remain fixed on the target.

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## OPERATING THE SCOPE

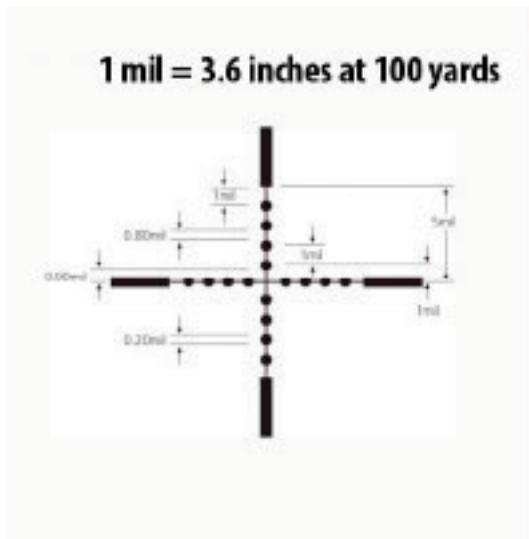
### Reticle Illumination

The S31242-M-RGAO is equipped with an illuminated reticle that lights in both red and green in varying brightness intensities. The illuminated reticle aids visibility in low light environments.

The illuminated reticle is powered by a single CR2032 3V battery, located within the reticle illumination dial. To change the battery, use a coin to unscrew the cap of the battery hatch and position the battery negative side down.

### Mil-Dot Reticle

The S31242-M-RGAO includes a mil-dot reticle useful in estimating the distance from a given target. Please note that 1 MIL (or Mildot) = approximately 3.6 inches at 100 yards away.



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4. The AO ring should also allow you to estimate the approximate range of your target based on the physics of the image projection. Once in focus, the approximate range of your target is indicated by the range markings on the AO ring.

### Sighting in your scope

#### Tip:

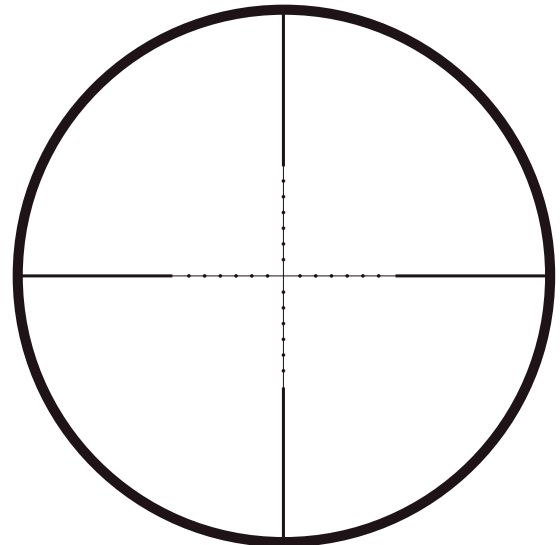
Before firing any rounds, we recommend bore sighting your rifle. Bore sighting refers to the process of aligning the bore of your rifle with your target, commonly done with a laser bore sighter, and then sighting in your optic accordingly. Bore sighting ahead of time will save you a significant amount of time and ammo, however, bore sighting alone is not enough to properly sight in your rifle. Once bore sighted, you are ready to sight in your scope.

### To sight in your scope:

1. Position your target 100 yards away (or at whatever distance you wish to sight your scope at)
2. Position your rifle on a steady shooting platform such as a gun rest or bipod pointed at the target
3. For variable magnification scopes, set your scope to the maximum magnification
4. Fire one round at the center of the target, taking care not to change the position of the rifle
5. Using a spotting scope or binoculars, identify the bullet hole on the target
6. Using the windage and elevation adjustment dials on your scope, adjust the position of the crosshairs to align with the bullet hole. The elevation dial is located on top of the scope, while the windage dial is located on the right of the scope. Each click of the adjustment dial will move the position of the crosshairs by  $\frac{1}{4}$  MOA or roughly  $\frac{1}{4}$  inch at 100 yards.
7. Once the crosshairs are aligned with the bullet hole, aim again at the center of the target and repeat the process until you are consistently hitting the center of the target
8. Once the scope has been zeroed, tighten the turret locks at the base of the windage and elevation dials to prevent the dials from moving

Note that the windage and elevation dials have numbered markings at the base and can be reset to zero for a simpler point of reference. To reset the turrets to zero, simply unscrew the set screw at the top of the turret using the included hex key, rotate the turret to align the "0" with the white mark at the base of the turret, then re-tighten the set screw

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### Warranty Support

Monstrum Tactical ensures strict standards of quality control and provides a one year warranty with all of our rifle scope products. Please note, that to qualify for warranty support, scopes must be purchased new and include proof of purchase. For warranty support, please contact Monstrum Tactical at [support@monstrumtactical.com](mailto:support@monstrumtactical.com).

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