

## Mantis 1x22



Designed by Red Win Optics  
www.redwinoptics.com

## Mantis 1x22

### HOW TO USE Mantis 1x22

1. **Battery** 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.
2. **Powering Up** Turning the illumination dial on Red Dot will turn the unit on.
3. **Brightness Adjustment** The Mantis sight offers eleven variable illumination settings. Adjust the dot brightness by turning the illumination dial to the desired level.
4. **Windage and Elevation Adjustment** The Mantis 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.
5. **Making Elevation and Windage Adjustments** Remove the turret cap and use the raised bar on the cover 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.

### MOUNTING Mantis 1x22

To get the best results from your Mantis, 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 Mantis 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 Mantis 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.

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#### 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 Mantis, 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 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 Mantis 1X22

The key thing to remember when shooting with the Mantis 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!

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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.

## TROUBLE SHOOTING

Please check the following before returning the Mantis 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 Mantis in any direction. Many times, problems thought to be with the scope are actually mount problems.

## CLEANING

Your Mantis will require very little routine maintenance other than periodically cleaning the exterior lenses. If desired, the exterior lens may be cleaned by wiping with a soft, dry cloth.

- Be sure to blow away any dust or grit on the lens prior to wiping the surface.
- Using your breath, or a very small amount of water or pure alcohol, can help remove stubborn things like dried water spots.


## 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.

## RED WIN SHIELD

 5 Years VIP Warranty

 One time FREE Accidental Damage repair service , includes accidental Water Damage and Drop Damage.

 Free Two-Way Shipping

Red Win deliveries the best model for your money with 100% quality assurance. Red Win promised

1. Within 5 Years of receiving the purchased product, if there is quality problem, it will be replaced or repair for free .
2. Warranty included product problem caused by force majeure (such as fire, flood, earthquake, lightning strike, etc .)
3. Products purchased through offline stores can be exchanged directly at the sales store .

## SUPPORT

Thank you for purchasing Red Win products.

Should you have any queries please feel free to contact us at [info@redwinoptics.com](mailto:info@redwinoptics.com) or visit [www.redwinoptics.com](http://www.redwinoptics.com) to get more support.

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RWD11



RW2021D11  
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