



PRODUCT MANUAL

RECON[®] R/T

MONOCULAR

SPECIFICATIONS

SKU	RT155
MAGNIFICATION X OBJECTIVE LENS DIAMETER	15x50
LINEAR FIELD OF VIEW (@1000 YDS.)	215'
ANGULAR FIELD OF VIEW	4.1°
CLOSE FOCUS	12.0'
EYE RELIEF	16.0mm
DIOPTRER RANGE	±3
EYECUP STYLE	Winged
LENGTH	8.0"
WEIGHT	15.2 oz.

Caution: Monoculars are not intended for looking at the sun or other intense light sources. Such viewing could damage the retina and cornea of your eyes – even to the point of causing blindness.

Recon® R/T Monocular

The Recon® R/T is an advanced tactical monocular unlike any other in the field - the first truly compact, full-featured monocular in the Vortex® line developed specially for field surveillance and range estimation with MRAD-based subtensions and secondary quick ranging silhouettes. The versatile Utility Clip secures the Recon® R/T to any belt or strap, so it's ready at a moment's notice.



Images are for representation only.
Product may vary slightly from what is shown.

BASIC OPERATION

Adjust the Eyecups

The heavy-duty Winged Eyecup folds up and down for optimal viewing with or without eyeglasses. If you are viewing with eyeglasses, fold the eyecup down for best viewing. The Eyecup will rotate to accommodate use with either your left or right eye.



Adjust the Image Focus

To adjust the image focus, rotate the Image Focus Wheel until the image is in focus.

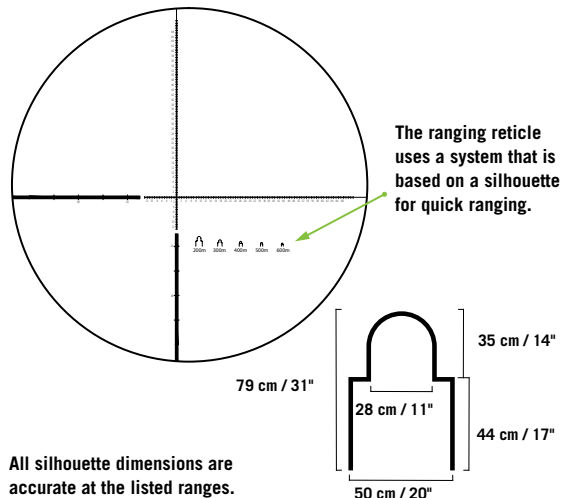


Adjust the Reticle Focus

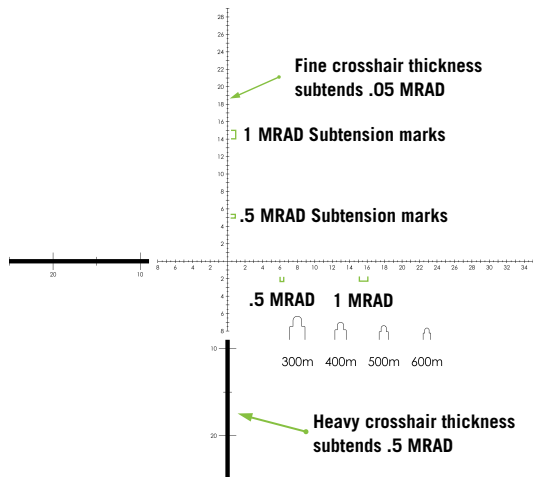
The Reticle Focus Wheel adjusts the sharpness of the reticle. While looking at a blank wall or blue sky, rotate the Reticle Focus Wheel until the reticle is in focus.

USING THE RANGING RETICLE

The ranging reticle is based on an angular measurement called the milliradian (MRAD) which allows you to calculate ranges when comparing the reticle to an object of a known dimension. The key to effective ranging with this reticle is knowing the measurements of common objects in your vicinity.



Subtensions



Ranging with MRAD

MRAD measurements are effective for ranging using a simple formula. Knowing the size of the target or a nearby object is essential to using these formulas.

$$\frac{\text{Target Size (yds.)}}{\text{Measured MRAD}} \times 1000 = \text{Range (yds.)}$$

$$\frac{\text{Target Size (inches)}}{\text{Measured MRAD}} \times 27.77 = \text{Range (yds.)}$$

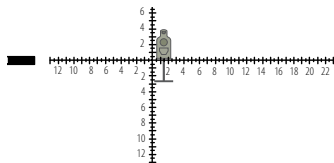
$$\frac{\text{Target Size (inches)}}{\text{Measured MRAD}} \times 25.4 = \text{Range (m)}$$

$$\frac{\text{Target Size (m)}}{\text{Measured MRAD}} \times 1000 = \text{Range (m)}$$

$$\frac{\text{Target Size (cm)}}{\text{Measured MRAD}} \times 10 = \text{Range (m)}$$

For the most accurate solution, use the longest dimension. If the object is taller than it is wide, it is best to use the object's height in the formula. Using either the vertical or horizontal MRAD scale, place the reticle on a target of known dimensions and read the number of MRAD spanned. You will obtain the best results if measured to the nearest 1/10th MRAD.

Accurate measuring will depend on a very steady hold. The optic should be firmly braced using a rest or a tripod. Once you have an accurate MRAD reading, use the formula to calculate the distance.

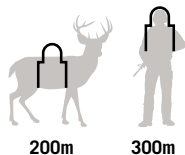


Ranging a 6' target (2 yards) at 4 MRAD yields 500 yards.

$$\frac{2 \text{ yds.}}{4 \text{ MRAD}} \times 1000 = 500 \text{ yds.}$$

Quick Ranging with Silhouettes

The silhouettes used in the R/T reticle are based on an average 20-inch shoulder width and 11-inch head width. To use, simply match the object being ranged to the closest silhouette in shape and read the indicated yardage. You may also use other dimensions on the silhouette and compare to objects of known dimension to obtain range estimation.



ACCESSORIES

Using a unique modular design, the Recon® R/T allows nearly unlimited options in accessory attachment and hand placement.

Utility Clip

The Utility Clip can be installed in one of three positions on the body of the Recon® R/T. This versatile carrying option allows quick attachment of the Recon® R/T to MOLLE webbing, pocket edges, or other equipment.

Picatinny Rail

Allows quick attachment of any accessory using the standard Picatinny Rail clamp. Attach the Picatinny Rail on either side of the Recon® R/T.

Hand Strap

The padded Hand Strap can be positioned on the left or right side of the Recon® R/T.

Flip Cap Objective Lens Cover

The objective lens cap adds extra protection with fast-flip action.

Rain/Dust Hood

The easy, slip-fit design helps keep the Ocular Lens free of moisture and dust. To attach or detach, simply slide attachment slit over the end of the clip. The hood can then be pulled off and on over the eyepiece.

Soft Carry Case

The Recon® R/T comes with a Soft Carry Case which may be attached to articles of gear or clothing using MOLLE straps or the built-in belt loop.

Note: If the optic is exposed to moisture, keep the caps off and allow the optic to dry out completely before putting it in the case for storage.

Lanyard

Thread the Lanyard through one of the four Attachment Loops on the Recon® R/T. The Lanyard can be worn around the neck or used as a safety cord when carrying the Recon® R/T with its Utility Clip.

Attach the Lanyard in a few simple steps:



1. Detach the clip from the Lanyard.
2. Push the loop end through the Lanyard Attachment point on the monocular.
3. Pull the clip through the loop and cinch tight.
4. Re-attach the clip to the Lanyard.

MAINTENANCE

Cleaning

Your Recon® R/T monocular requires very little routine maintenance other than periodically cleaning the exterior lenses. The exterior may be cleaned by wiping with a soft 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 dried water spots.

Lubrication

All monocular components are permanently lubricated, so no additional lubricant should be applied.

Note: Do not attempt to disassemble any monocular components. Disassembling of the monocular may void warranty.

Storage

If possible, avoid storing your scope in direct sunlight or any very hot location for long periods of time.

NOTICE

Virtual Patent Marking Notice by Vortex Optics

This product may be protected by patents in the U.S. and elsewhere for Vortex Optics. <http://vtx.legal> website is provided to satisfy the virtual patent marking provisions of various jurisdictions including the virtual patent marking provisions of the America Invents Act and provide notice under 35 U.S.C. §287(a). Please visit <http://vtx.legal> to view list of products that may be covered by one or more U.S./Foreign patents or published patent applications.



VIP WARRANTY™

OUR UNCONDITIONAL PROMISE TO YOU.

We promise to repair or replace the product. Absolutely free.

- ▶ **Unlimited.**
- ▶ **Unconditional.**
- ▶ **Lifetime Warranty.**

You do not have to register, save the box, or a receipt for the Warranty to be honored.

Learn more at VortexOptics.com

service@VortexOptics.com • 1-800-4VORTEX

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

For additional and latest manuals, visit **VortexOptics.com**



M-00030-1

© 2023 Vortex Optics

® Registered Trademark and TM Trademark of Vortex Optics. Patent Pending