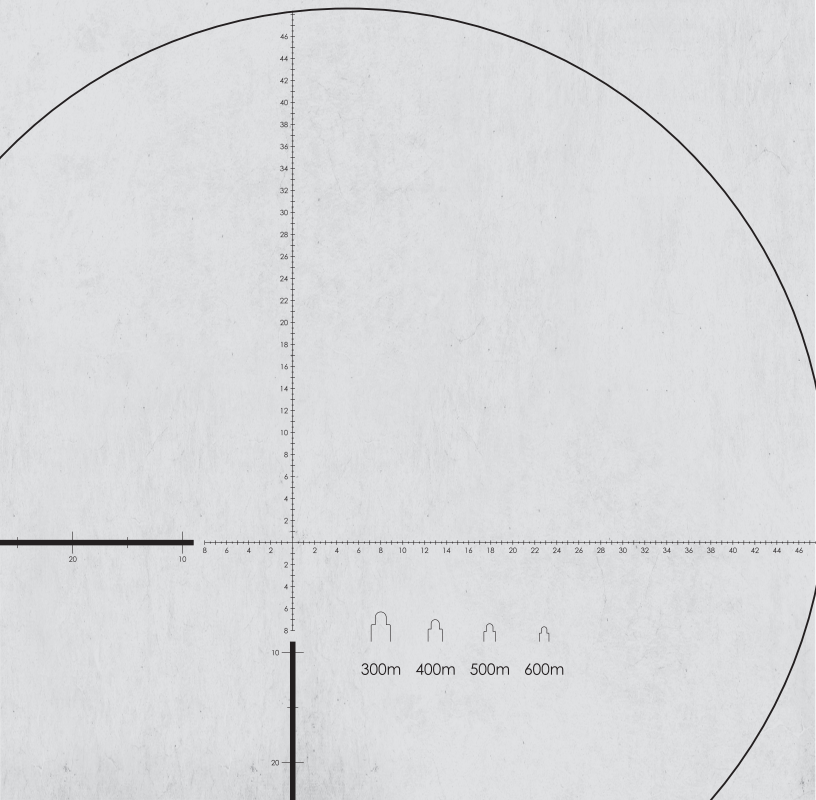


RECON[®] R/T

MONOCULAR



Tactical Monocular Manual





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.

Patent Pending



THE RECON® R/T

Built to handle the roughest conditions, this compact tactical optic is designed to provide field surveillance and range estimation in a quick handling, lightweight package. The Recon R/T monocular delivers brilliant optical performance using Vortex's premium XD glass and XR lens coatings.

BASIC OPERATION

Adjust the eyecup

The Recon R/T features a winged eyecup that blocks stray light when fully extended. The heavy duty folding flared rubber eyecup on the Recon R/T is designed to accommodate both eyeglass wearers and non-eyeglass wearers. If you are viewing with eyeglasses, fold the eyecup down for the best views.



Adjust eyecup for the best viewing.

Adjust the image focus

Use the main focus wheel on the eyepiece to obtain crisp, sharp images of objects at varying distances. Designed for quick single-handed operation, simply place the thumb and forefinger on the focus wheel and turn to move lens forward or backward until the image is as sharp as possible.



Rotate to focus image

Adjust the reticle focus

The reticle focus, located on the eyepiece next to the eyecup, adjusts the sharpness of the reticle. While looking at a blank wall or blue sky, turn the wheel until the reticle is as sharp as possible. Once set for a particular user, that user will not need to adjust the reticle focus again.



Rotate to focus image

ACCESSORIES

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

Utility Clip

Depending on your preference, you can position the clip in one of three positions on the body of the Recon R/T. This versatile carrying option allows quick attachment of the Recon to MOLLE webbing, pocket edges, or other equipment.

Picatinny Rail

This allows quick attachment of any accessory using the standard Picatinny rail clamp—attach the rail on either side of the Recon R/T.



Lanyard

Thread the lanyard on one of the built-in 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 clip.

Hand Strap

The padded handstrap can be positioned on the left or right side of the Recon R/T according to your preference.



Rain/Dust Hood

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

Case

The Recon R/T comes with a soft case which may be attached to articles of gear or clothing using molle straps or the built-in belt loop. Between viewing sessions, safely store your monocular in the case. Note: If the optics are exposed to moisture, keep the caps off and allow the optics to dry out completely before putting them in the case for storage.

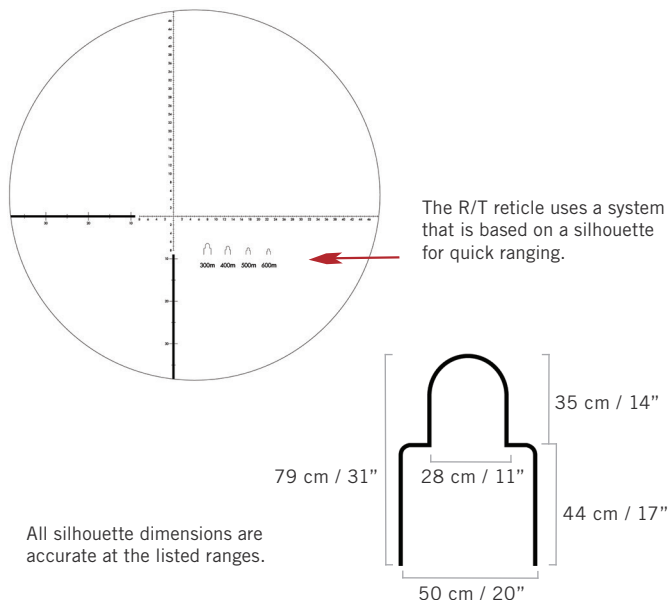
Flip Cap Objective Lens Cover

This objective lens cap adds extra protection with fast flip action.



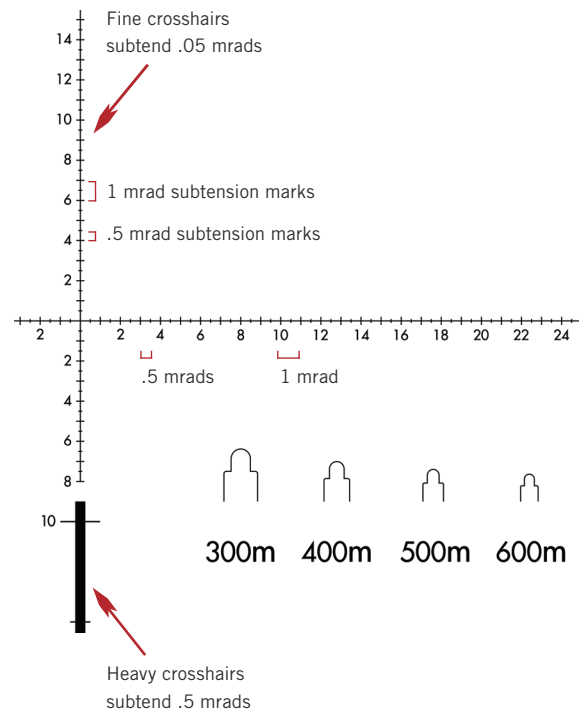
USING THE RECON R/T RETICLE

The R/T reticle is based on an angular measurement called the milliradian (mrad for short) that 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.



All silhouette dimensions are accurate at the listed ranges.

Subtensions



Precision ranging with mrad

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

$$\frac{\text{Target Size (Yards)} \times 1000}{\text{Measured mrad}} = \text{Range (Yards)}$$

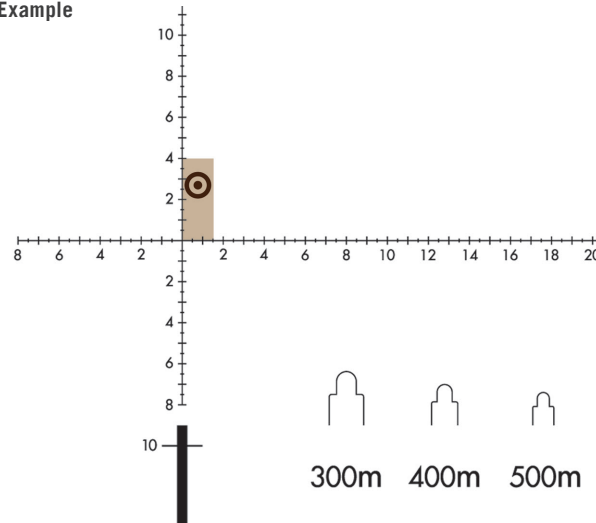
$$\frac{\text{Target Size (Inches)} \times 27.8}{\text{Measured mrad}} = \text{Range (Yards)}$$

$$\frac{\text{Target Size (Meters)} \times 1000}{\text{Measured mrad}} = \text{Range (Meters)}$$

Be sure reticle is in focus before ranging. Using either the vertical or horizontal mrad scale, place the reticle on the target of known dimension and read the number of mrad spanned. Obtain maximum accuracy in ranging by calculating exact mrad measurements—try to estimate mrad measurement in 1/10s if possible. The R/T reticle uses both 1 and .5 mrad graduations on the crosshair to help calculate fractions of mrad. Fine crosshairs subtend .05 mrad.

Accurate measuring will depend on a very steady hold. Be sure to solidly brace the arms when measuring or use a tripod mount for maximum accuracy. Once you have an accurate mrad reading, use one of the formulas to calculate the distance.

Example



Ranging a 6-foot target (2 yards) at 4 mrad yields 500 yards.

$$\frac{2 \times 1000}{4 \text{ mrad}} = 500 \text{ Yards}$$

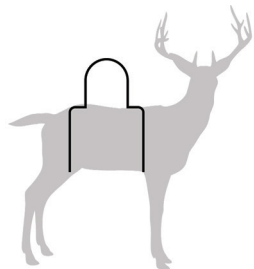
Quick ranging with silhouettes

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 person being ranged to the closest silhouette in shape and read the indicated yardage. As noted before, best accuracy will be obtained by bracing the arms or using a tripod mount.

You may also use other dimensions on the silhouette and compare to objects of



300m



300m

known dimension to obtain range estimation. In this example, a deer is ranged using the silhouettes. Using a deer's typical back-to-brisket dimension of 17 inches, the 17-inch shoulder height of the silhouettes can be used for quick range estimation.

LENS CARE

The neoprene hood protects the ocular lens from rain and dust when you are not actively viewing through the Recon R/T.

Follow this two-step process to gently clean the exterior lenses of your binocular.

1. Blow away any dust or grit before wiping the lens. Use a can of pressurized air, soft camel hair brush, or acrylic optical brush.
2. Gently remove smudges, fingerprints, and eyelash oil from the lens. Use a small amount of water or your breath to moisten the lens then wipe away smudges with a clean lens cloth. Isopropyl alcohol can help remove marks like fingerprints.

Note: Avoid over-scrubbing lenses and always use a clean lens cloth—replace the dirty lens cloth with a new, clean lens cloth. Please do not use facial tissue, heavy cotton, or flannel cloth on the lenses because these materials can scratch the lens surface.



THE VIP WARRANTY

We build optics based on our commitment to your absolute satisfaction. That's why Vortex products are unconditionally guaranteed and we make this Very Important Promise to you—a Very Important Person.

Rest assured that in the event your Recon becomes damaged or is defective, Vortex Optics will repair or replace the monocular at no charge to you. If we cannot repair your product, we will replace it with a product in perfect working order and equal or better physical condition. E-mail service@vortexoptics.com or call us at 800-426-0048 for prompt, professional, and friendly service.

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Visit www.vortexoptics.com for more information.
Canadian customers may visit www.vortexcanada.net
for customer service information.

Note: The VIP warranty does not cover loss, theft or deliberate damage to the product.

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