

VORTEX

**RAZOR**<sup>HD</sup>  
RETICLE EYEPIECE

LONG EYE RELIEF | WIDE ANGLE

MOA | 85MM | 22X

Rotate this ring to adjust the diopter setting.



Rotate this ring to fine tune the reticle orientation in uneven conditions.

### RAZOR® HD RANGING RETICLE EYEPIECE

The wide-angle nature of the Razor® HD Ranging Reticle eyepiece reveals a field of view that is wider than what you would see at the same magnification through the 20-60x zoom eyepiece and the fixed-power design offers the highest level of resolution. Vortex's ranging reticle provides precise target range estimation.

This MOA-based Razor HD reticle can be used to estimate distances (see back) as well as to call shots and provide rapid MOA corrections for stray shots. It will be most useful when used in conjunction with MOA-based riflescopes.

## RANGING WITH THE MOA RETICLE

MOA measurements are very effective for ranging using simple formulas—knowing the size of the target or nearby object is essential.

$$\frac{\text{Target Size in Inches} \times 95.5}{\text{Measured MOAs}} = \text{Range (Yards)}$$

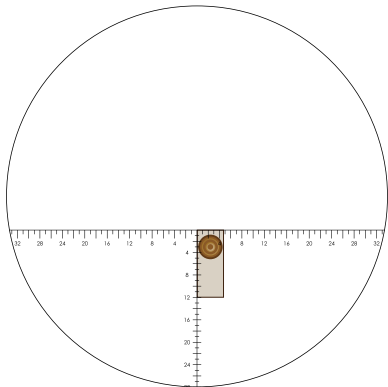
$$\frac{\text{Target Size in cm} \times 34.37}{\text{Measured MOAs}} = \text{Range (Meters)}$$

Using either the vertical or horizontal MOA scale, place the reticle on the target of known dimensions and read the number of MOAs spanned. You will obtain maximum accuracy in ranging by calculating exact MOA measurements. MOAs should be estimated in 1/4s if possible. To help calculate fractions of MOAs, the inner crosshair line thickness can be used as a reference.

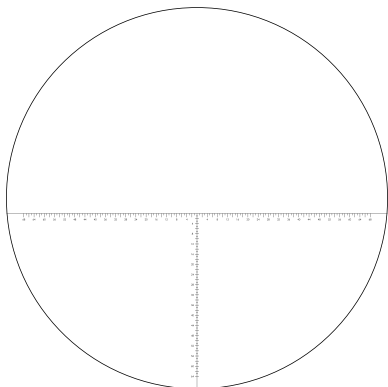
Note: In the MOA ranging formula, a shooter may substitute 100 for 95.5 in the interest of speedier calculations. Be aware that this will produce a five percent over-estimation error of the yardage distance obtained.

**Example:** Ranging a 6-foot target (72 inches) at 12 MOAs yields 573 yards.

$$\frac{72 \times 95.5}{12 \text{ MOA}} = 573 \text{ Yards}$$



Accurate measuring will depend on a very steady hold—be sure to use a high quality tripod. Once you have an accurate MOA reading, use the formula to calculate the distance.



MOA Reticle



## VIP WARRANTY

OUR UNCONDITIONAL PROMISE TO YOU.

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