

## VIPER HD

RETICLE EYEPIECE



MOA
PRODUCT MANUAL



Rotate this ring to adjust the diopter setting.



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

## **VIPER® HD RANGING RETICLE EYEPIECE**

The Viper® HD Ranging Reticle's wideangle eyepiece reveals the same excellent field of view you would see at the same magnification through the 20-60x zoom eyepiece, and the fixed power 33.5x magnification offers the highest level of resolution. Vortex's ranging reticle provides precise target range estimation.

This MOA-based Viper® HD reticle can be used to estimate distances, to call shots, and provide rapid MOA corrections for stray shots. It will be most useful when used in conjunction with MOA-based riflescopes.

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## 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.

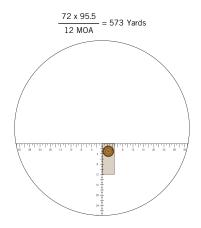
Measured MOA

Using either the vertical or horizontal MOA scale, place the reticle on the target of known dimensions and read the number of MOA spanned. You will obtain maximum accuracy in ranging by calculating exact MOA measurements. MOA should be estimated in 1/4 MOA increments if possible. To help calculate fractions of MOA, 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

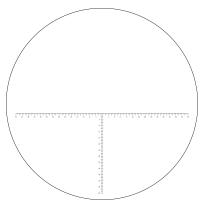
in the interest of speedier calculations. Be aware that this will produce a five percent over-estimation error of the yardage distance obtained.

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

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

- ▶ Unlimited
- Unconditional
- ▶ Lifetime Warranty

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

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