

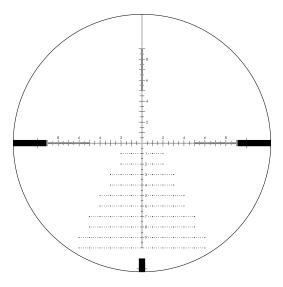
#### **RETICLE MANUAL**



FIRST FOCAL PLANE

## **EBR-2C MRAD RETICLE**

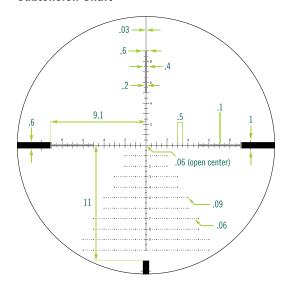
Designed to maximize long-distance shooting and ranging abilities, the EBR-2C MRAD reticle can be used to effectively determine ranges, holdovers, windage corrections, and moving target leads. The ultra-precise, laser-etched glass reticle ensures the MRAD specifications are kept to the tightest tolerances possible. The fine center crosshair subtensions on the EBR-2C MRAD reticle were carefully chosen to provide the optimum balance of precision aiming and low-light visibility. Includes windage reference dots on drop lines.



#### **MRAD Subtensions**

The EBR-2C MRAD reticle is based on Milliradian (MRAD) subtensions. MRAD is an angular unit of measurement used to account for bullet drop, wind corrections, and range estimation. 1 MRAD will correspond to 3.6" for each 100 yards.

#### **Subtension Chart**

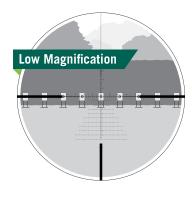


MRAD values are correct on all magnifications.

2

#### **First Focal Plane Reticles**

This riflescope features a first focal plane (FFP) reticle. FFP reticles are located within the riflescope near the windage and elevation turrets, in front of the erector tube. This style of reticle will appear to grow and shrink as you change the magnification.

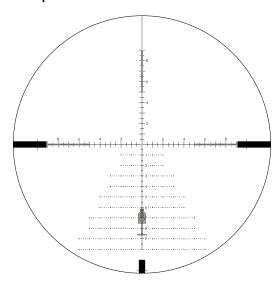




#### **Elevation Holdovers**

Correcting for bullet drop is easy with the EBR-2C reticle's .5 MRAD hashmarks. The shooter uses the bullet's drop in MRAD and holds on the corresponding hashmark.

#### **Example**



6.7 MRAD elevation correction at 800 yds. No wind.

**Note:** You can also use the reticle like a ruler when sighting-in and while making on-the-fly corrections. Measure the difference between the bullet's point of impact and your point of aim, and either hold on that respective hashmark, or dial in the correction on the turret, using the value of the corresponding hashmark.

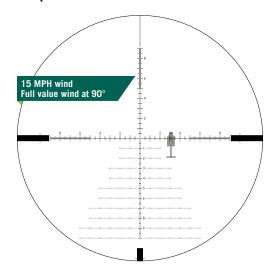
#### **Windage and Moving Targets**

Using the EBR-2C reticle for effective windage and moving target leads will require thorough knowledge of your weapon system's ballistics performance under varying conditions and experience in reading wind and target speed. As a bullet drops, it is important for the shooter to learn a particular weapon's windage/moving target corrections in MRAD rather than inches. Always hold the reticle into the wind.

#### **Basic Windage Correction Holdovers**

When dialing elevation, use the horizontal stadia line for windage or moving target lead corrections.

#### **Example**



2.6 MRAD correction for 15 mph wind.

# Basic Windage and Elevation Correction Holdovers

When using the reticle for elevation and wind holds, you can use the windage dots to help visually reference your windage and elevation corrections. Remember to hold the reticle into the wind.

#### **Example**



3 MRAD elevation correction at 500 yds.

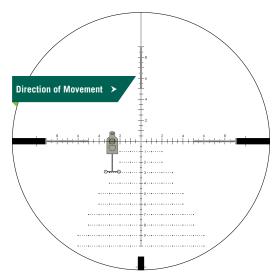
1.5 MRAD windage correction for 10 MPH wind.

#### **Basic Moving Target Lead Correction**

When estimating moving target leads, use the MRAD marks on the horizontal stadia line. Estimating moving target leads will require knowing distance, wind speed, moving target speed, and total bullet flight time (including rifle lock time). Bullet flight times can be roughly calculated based on FPS velocities or a ballistic calculator.

**Note:** Correctly estimating moving leads is difficult and requires practice and knowledge beyond the scope of this manual.

### **Example**



2.74 MRAD correction for a target moving 3 mph.

#### **RANGING**

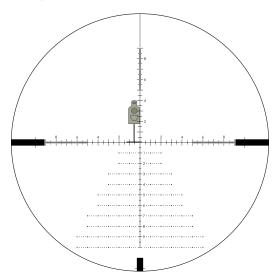
MRAD measurements are effective for ranging using a simple formula. To use this formula, the shooter needs to know the size of the target or nearby object in yards, inches, meters, or cm.

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 1/10 MRAD.

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

#### **Example**



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

10



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11



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