

The background features a dark blue grid with a semi-circular reticle scale. The scale is marked with numbers from 20 to 180 in increments of 10, with finer tick marks between them. The scale is positioned such that it appears to be part of a larger circular instrument.

RETICLE MANUAL

READ IT BEFORE USE!!!

READ AND UNDERSTAND THE CONTENTS OF YOUR RETICLE MANUAL.

▼ Scan the QR code to learn more about VectorOptics.



VECTROPTICS



USER MANUAL



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INSTAGRAM

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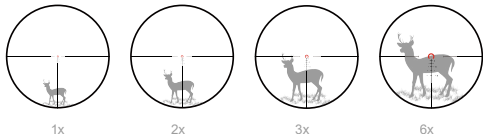
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FIRST FOCAL PLANE RETICLES

A first focal plane (FFP) reticle is a type of reticle that is commonly used in long-range shooting.

These reticles are designed to change their size proportionally to the magnification of the scope. This means that the reticle remains accurate at any magnification, making it ideal for long-range shooting. In an FFP reticle, the reticle markings grow and shrink as the magnification is adjusted, allowing for accurate holdovers and range estimations at any power setting.

Compared to the second focal plane (SFP) reticle, the FFP reticle offers greater versatility and accuracy. FFP reticles are particularly useful in tactical shooting scenarios where quick and precise adjustments need to be made.

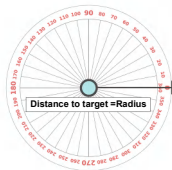


MILS / MRAD EXPLAINED

MILs, or milliradians, are a unit of measurement dividing radians in a circle. A radian is equal to 57.3 degrees, with $6.2832 (\pi \times 2)$ radians in a circle. There are 1000 milliradians in 1 radian and 6,283 milliradians (or mils) in a circle.

1 MIL equals 1/1000 of any shooting distance. So 1 MIL is 1 meter at 1000 meters, and 1 yard(36") at 1000 yards. Then **1 MIL is approximately 10cm at 100m**, 20cm at 200m and so on. Likewise, **1MIL is approximately 3.6 inches at 100 yards**, 7.2 inches at 200 yards and so on.

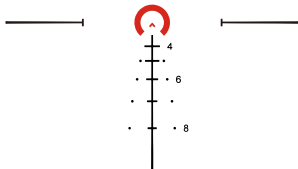
A mil is so large that it's usually broken into tenths in order to make precise adjustments on your scope turret.

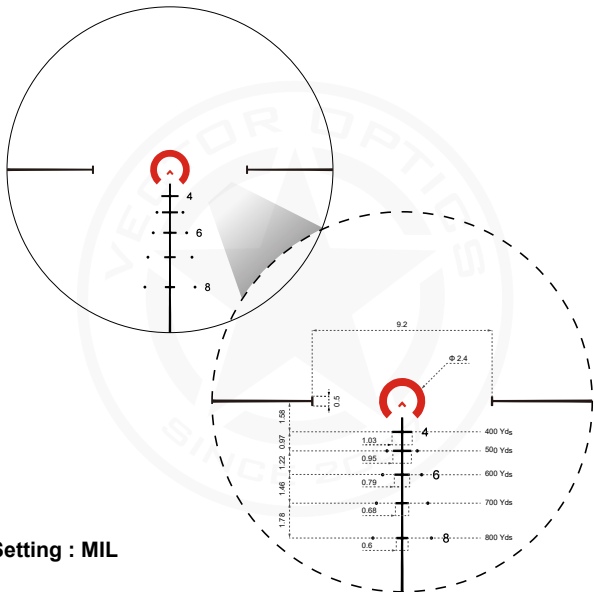


THE Vector Optics® VCT-BNW FFP MIL RETICLE

The **VCT-BNW** reticle is a great choice for those with a .22 caliber rifle. It features a bullet drop compensation (BDC) system that's correlated with range estimation and wind holds, making it ideal for tactics, hunting, or competition use. This reticle improves your first hit ratio and decreases time on target. It's specifically designed for shooting range clays, cans, bottles, and other targets. With this reticle, you'll be able to fully utilize the ranging features and bullet drop compensation in no time. The BDC system makes it easy for adjusting your aim based on distance, so you can make quick and accurate shots without the need for a separate rangefinder or ballistic calculator.

The VCT-BNW reticle is perfect for quick target acquisition and combines the advantages of a bullet drop compensator (BDC) and wind speed. This allows the shooter to quickly estimate range and wind simultaneously.





Setting : MIL

WIND DRIFT COMPENSATION

The VCT-BNW reticle also takes wind drift into account. Wind can cause a bullet to drift off course, which can lead to missed shots. The VCT-BNW reticle compensates for wind drift by using the dots aligned with the hashmarks. This allows the shooter to quickly estimate the wind speed and direction, and make the necessary adjustments to their aim to compensate for wind drift.

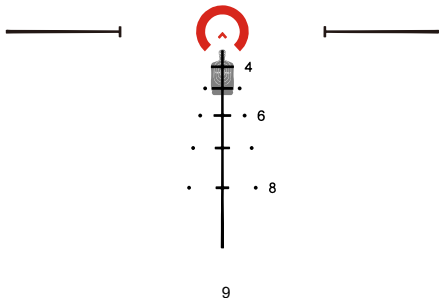
BULLET DROP COMPENSATION

The VCT-BNW reticle is designed for bullet drop compensation, shooters can estimate bullet holdover at different distances. The BDC starts at the center dot and finishes at the mark indicated by the number 8, can offer bullet-drop reference for all distances. **The VCT-BNW reticle is designed to follow the trajectory of a .223 rifle bullet, with the gap increasing each time to better match fixed distances.**

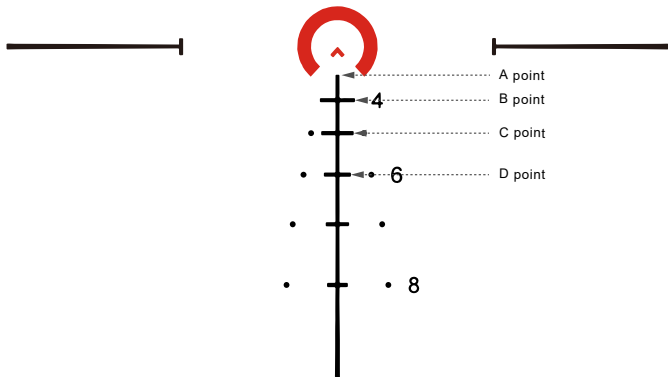
There are various firearms that the VCT-BNW reticle can be used with, like high powered rifles, rimfire rifles, black powder rifles, slug shotguns and so on. The hash marks of this reticle can also be used as

FAST RANGING WITH THE VCT-BNW RETICLE

With the VCT-BNW reticle, you can achieve fast-ranging. Start to zero using the center dot at 100 meters, then horizontally align the width of the target, an approximate distance can be obtained. Check out the picture below for reference. In the example picture, the target's shoulder width aligns with the hash mark 4, which means that the target is 400 meters away.



USING THE RETICLE FOR BULLET DROP COMPENSATION



If you are using the VCT-BNW reticle for bullet-drop compensation, please first zero your rifle at 100 yards or other distances and set the magnification to 10x, then use the hash marks on the reticle to compensate for bullet drop. Here are two examples with different calibers:

Caliber: .223, 5.56

High Velocity, Small Caliber Varmint Rifle
| boat tail bullets, 2700 - 3000 FPS muzzle
velocity | Use 200yds zero on center dot.

Bullet Drop:

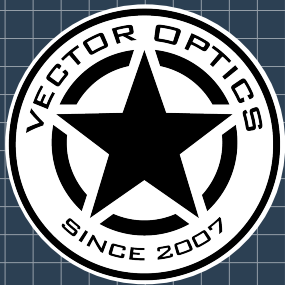
A point: 300yds | 7.5" drop
B point: 400yds | 23.5" drop
C point: 500yds | 50" drop
D point: 600yds | 92" drop

Caliber: .308, 7.62

High Power Big Game Rifle
Boat tail bullets, 2600 - 2650 FPS muzzle
velocity | Use 200yds. zero on center dot.

Bullet Drop:

A point: 285 yds. | 7.2" drop
B point: 385 yds. | 22" drop
C point: 485 yds. | 47.4" drop
D point: 600 yds. | 92" drop



VCT-BNW

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