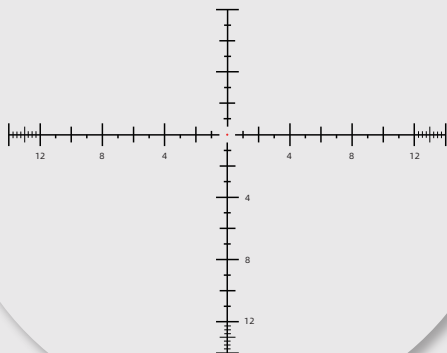
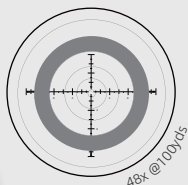
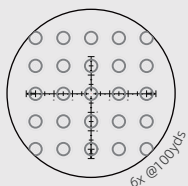


# VCT-MOA SFP RETICLE

The Vector Optics VCT-MOA reticle features a unique inverted "T" Mil-radian ranging scale, with a clear 0.1 MOA dot in the center, and a 2 MOA diameter circle space between the center dot and the ranging scale. It is designed to maximize long distance shooting and ranging abilities.

The VCT-MOA reticle enables effective range estimation, holdover adjustments, and moving target lead calculations. The inverted "T" Mil-radian ranging scale allows for precise measurements and calculations, while the center dot and circle space provide a clear and unobstructed view of the target. This reticle is ideal for field tactical, long-range hunting and benchrest shooting.

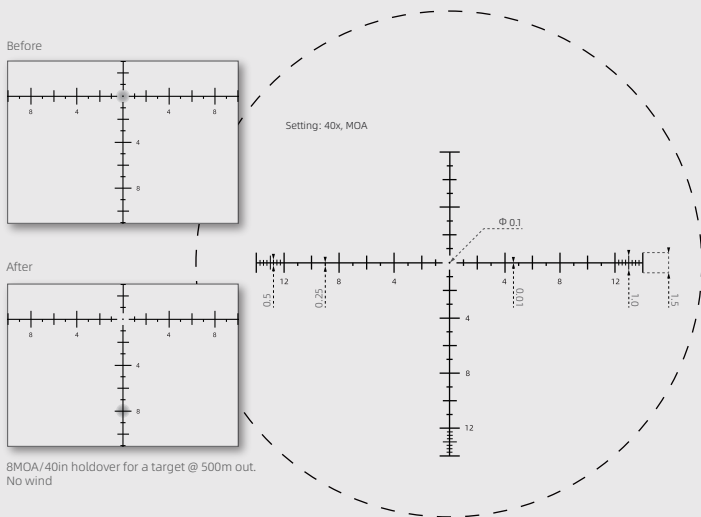
For VCT-MOA reticle, the suspension is valid at 40x.



# COMPENSATION BULLET DROP

Holdover refers to the technique of adjusting the aim of a firearm to compensate for the effect of gravity on the bullet's trajectory. Bullet drop is the decrease in bullet height as it travels through the air. The shooter can use the MOA markings on the reticle to calculate the bullet drop. The MOA markings on the vertical axis represent the distance in MOA between each hash mark. The horizontal axis represents the windage adjustment.

For example, under no wind condition, after zeroing your scope at 100yards, if you know your target is at 500yards and your ammo has a 40 inch bullet drop at that distance, you will need to use 8MOA holdover point. Here is how you get the 8MOA: since 1MOA equals 1 inch at 100yards, 5 inch at 500 yards, and then 40 inch equals 8 x 5 inch at 500, you need to hold the 8 MOA drop point to compensate for the 40 inch bullet drop, thus bring the aim point to line up with the bullet's point of impact.



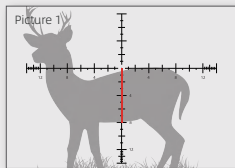
When it comes to wind correction in shooting, there are three key factors to keep in mind: the flying time of the bullet, the velocity and direction of the wind, and the ballistics coefficient (BC) of the bullet. By taking into account these three factors, a shooter can make the necessary adjustments to account for wind drift and achieve accurate shots even in challenging conditions.

# HOW TO MEASURE TARGET HEIGHT & LENGTH

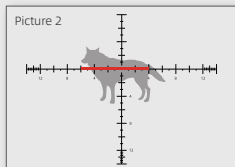
The VCT-MOA reticle can also help the shooter estimate the range to a target. If the shooter knows the target object's size at shooting distance, then he can compare it to either the vertical or horizontal hash mark spacing and roughly estimate the range.

The formula for range calculation is as follows:

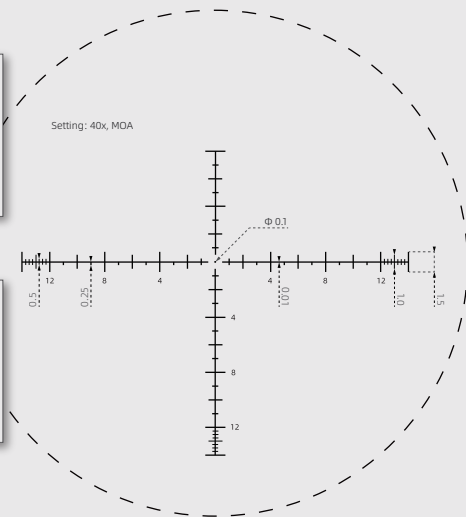
**Range (yards) = Target Height or Width (inches) \* 100 / Target Height or Width measured on reticle (MOA)**



Red represents the chest height of the target



Red indicates the length of the target



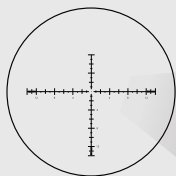
if a shooter is aiming at an elk, its back to bottom height is 24 inches, and it spans about 8 MOAs on the vertical line. Using the formula above, the range to the elk is calculated as follows:

$$\text{Range} = 24 \text{ (inches)} * 100 / 8 \text{ MOA} = 200 \text{ (yards)}$$

If a shooter is aiming at a 35 inches long coyote, and it spans about 10MOAs on the horizontal line. Using the formula above, the range to the coyote is calculated as follows:

$$\text{Range} = 35 \text{ (inches)} * 100 / 10 \text{ MOA} = 350 \text{ (yards)}$$

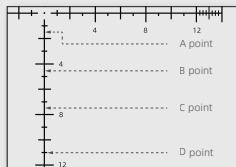
# USING FOR BULLET DROP COMPENSATION



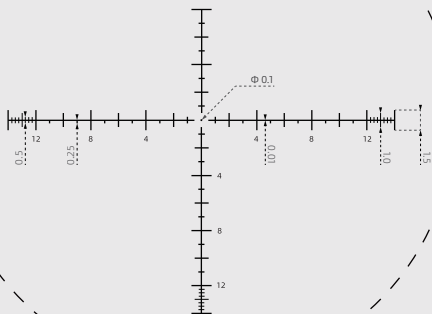
If you are using the VCT-MOA reticle for bullet-drop compensation, please first zero your rifle, then use the hash marks on the reticle to compensate for bullet drop. Here are two examples with different calibers:

## .223, 5.56 ZERO @200yds

A point: 300yds | 4.5" drop  
B point: 400yds | 18" drop  
C point: 500yds | 37.5" drop  
D point: 600yds | 66" drop



Setting: 40x, MOA



## .308, 7.62 ZERO @100yds

A point: 200yds | 1.5 MOA  
B point: 300yds | 4.5 MOA  
C point: 400yds | 7.5 MOA  
D point: 500yds | 11 MOA

