

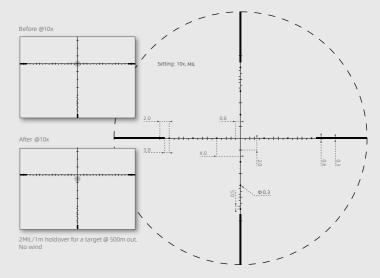
MDL MIL SFP RETICLE

The MDL reticle offers a highly versatile tool for both precision shooting and tactical applications. The horizontal line extends 12.8 MIL on each side, with small gaps representing 0.8 MIL intervals. The 0.3 MIL dots help shooters to locate 4 MIL, 8 MIL and 12 MIL more quickly. The thicker line is 0.3 MIL wide, with dash marks at 14 MIL on each side. The vertical line extend 12.8 MIL on each side, with each gap represents 2MIL, The 0.3 MIL dots help shooters to locate 4 MIL, 8 MIL and 12 MIL more quickly. From 8MIL to 12 MIL, each interval represents 0.5 MIL. For MDL reticle, the subtension is valid at 10x. Applicable products: VI S4 - 3-12x40 VI S4 - 4-16x44 VI S4 - 4-16x44 FDF VI S4 - 6-24x50 VI S4 - 6-24x50 FDE

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 MIL markings on the reticle to calculate the bullet drop. The MIL markings on the vertical axis represent the distance in MILs between each hash mark. The horizontal axis represents the windage adjustment.

For example, under no wind condition, after zeroing your scope at 100m, if you know your target is at 500m and your ammo has a 1 m bullet drop at that distance, you will need to use 2MIL holdover point. Here is how you get the 2MIL: since 1MIL equals 10cm at 100m, 50cm at 500m, and then 2MIL equals 2 x 50cm =1m at 500m, you need to hold the 2MIL drop point to compensate for the 1m 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

Setting: 10x, MIL 0.8 To use the MDL Reticle for ranging, the shooter first needs to know the height of the target in question. Once the height of the target is determined, the shooter can use the MDL Reticle to measure the target in MIL. Height of Target (yards) / MIL * 1000 = Distance to Target (yards) If the height of target is in Inches, then the formula should be: Height of Target (inches) / MIL * 27.78 = Distance to Target (yards) (1 inch ≈ 0.0277778 yards) This formula works equally well with meters,

but don't mix meters and yards: Height of Target (meters) / MIL * 1000 =

Height of Target (meters) / MIL * 1000 = Distance to Target (meters)

Measure the object in yards to find the distance in yards, and use meters to yield distances in meters.

If the height of an adult male is 5.91ft, and measures 5MIL across the reticle, that is:

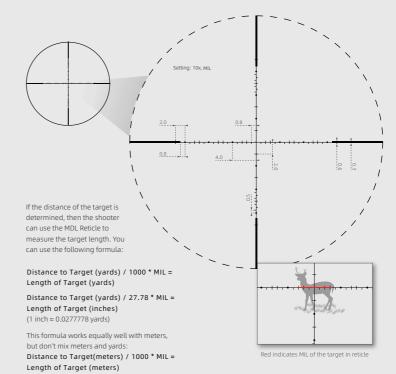
Distance to Target (yards) / 27.78 * MIL = Height of Target (inches)

Red indicates the height of the target

5.91ft = 70.9 inches

70.9 (inches) / 5 mil x 27.78 = 394 (yards) 2.0 (yards) / 5 MIL x 1000 = 394 (yards) 1.8 (meters) / 5 MIL x 1000 = 360 (meters)

HOW TO MEASURE TARGET LENGTH



Measure the object in yards to find the distance in

yards, and use meters to yield distances in meters.

If the Distance to Target is 400m, and the target measures 4.5MIL across the reticle, then the target length is:

400 (meters) / 1000 * 4.5 MIL = 1.8 (meters) 437 (yards) / 1000 * 4.5 MIL = 2.0 (yards) 437 (yards) / 27.78 * 4.5 MIL = 70 (inches)