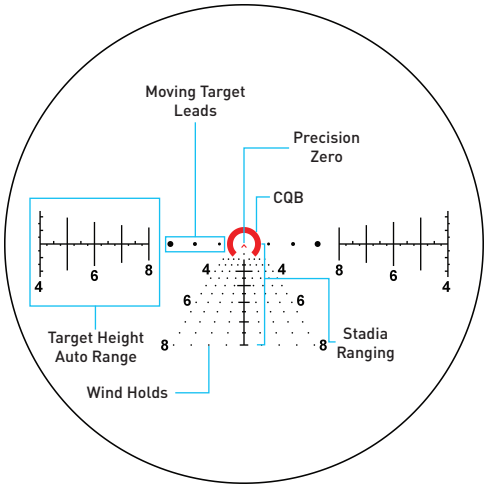
PRIMARY ARMS OPTICS

SLX® 1-10x28

SECOND FOCAL PLANE
ACSS® RAPTOR 5.56 M10S RETICLE MANUAL

THE ACSS RAPTOR 5.56 M10-S RETICLE

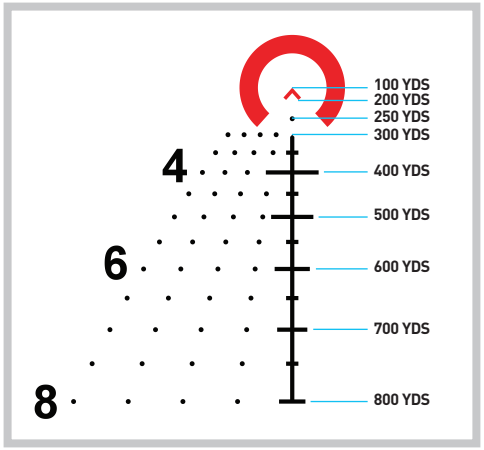
The ACSS Raptor 5.56 M10-S is an all-new SFP reticle that is purpose-made for optics with a 1-10x magnification range. In close quarters, the ACSS Raptor 5.56 M10-S offers a bold center chevron and outlying horseshoe for fast target acquisition. For long-range precision, users can leverage the full functionality of their ACSS ballistic drop compensating reticle, including vertical and horizontal ranging, multi-value wind holds, moving target leads, and intuitive ballistic holdovers to 800 yards.



CLOSE QUARTERS USE

In close quarters, sight acquisition speed is paramount.The ACSS Raptor 5.56 M10-S features a bright chevron aiming point with an outlying horseshoe for rapid target acquisition. Your optic's illumination settings will also improve visibility and contrast for consistent acquisition in split-second engagements.

In daylight, an unlit, black reticle may offer the best contrast.



PRECISION/MEDIUM RANGE SHOOTING

For mid-range targets, the chevron provides an infinitely small aiming point without obscuring the part of the target you want to hit for a fast yet very precise sight picture.

For further distances, ACSS Raptor 5.56 M10-S includes built in bullet drop compensation (BDC) for 5.56 NATO, 5.45x39, and .308 Winchester. The BDC starts at the tip of the chevron and ends as the 800-yard mark, indicated by the fifth large hash mark below (denoted with an "8" on each side).

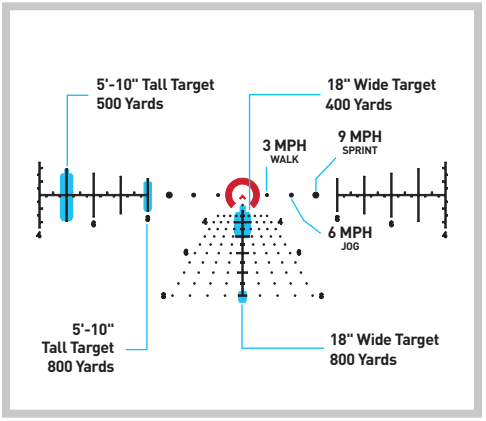
Because of the scope's second focal plane design, this BDC is calibrated for max magnification only.

HOW TO ESTIMATE TARGET DISTANCE USING ACSS RAPTOR 5.56 M10-S RETICLE

Knowing the distance to your target is crucial in using the reticle effectively.

ACSS Raptor 5.56 M10-S offers two methods of range estimation: auto-ranging and MIL ranging. The easiest method is using the reticle's auto-ranging tools, though you can also use the MIL brackets to the sides of the center reticle.

Because this is a SFP reticle, your ranging stadia are only correct on maximum magnification.



MOVING TARGET LEADS

The three dots at the sides of the center chevron are leads for targets moving at a 90-degree angle to the user. Each dot represents a common movement speed. The innermost dot is a lead for walking targets (3 mph), the middle dot is a lead for jogging targets (6 mph), and the outer dot is a lead for sprinting targets (9 mph).

To use the moving target leads, simply hold the appropriate dot over your target as it travels. If used correctly, the target will move into the path of the shot.

These leads are most effective at a range of 100 - 300 yards.

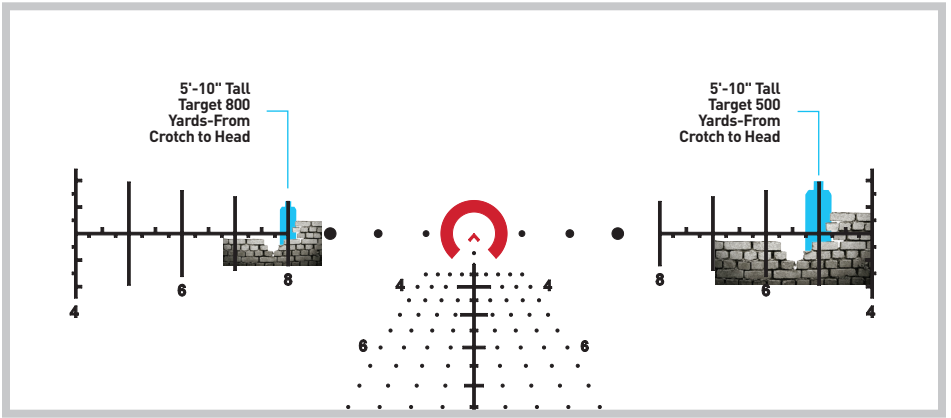
RANGING STADIA

This reticle provides multiple methods of ranging a target, including both MIL subtensions and built-in auto-ranging, calibrated to a target 5'10 tall and 18" wide.

Your BDC stadia can be used for width-based auto-ranging, correlating to an 18" measurement at their respective distances.

For vertical auto-ranging, use the numbered MIL stadia marks to the left or right of the center horseshoe. Each full stadia mark represents a 5'10 height at its numbered distance.

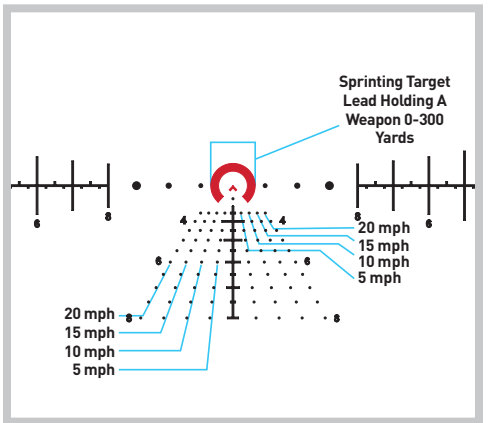
Because the crosshair runs halfway through each MIL stadia, you can also use the vertical stadia for ranging ~36" targets. This allows you to range crouched or partially concealed targets, holding crotch-to-head. For targets at extreme distances, you can use the half-stadia to range a target at double the indicated distance.



WIND HOLDS AND LEADS

Your BDC includes multi-speed wind holds to help you compensate for crosswinds at further distances.

Each stadia marker of your BDC will be flanked by three or four dots on each side. Each dot represents a 5mph crosswind hold at that distance. For most distances, you have precision holds for 5mph, 10mph, 15mph, and 20mph wind speeds.



HOW TO USE MILS

This reticle features MIL (Milliradian) stadia, which you can use to range targets and communicate with other marksmen or observers.

To range using MILs, estimate the height or width of your target. Once you have an estimated target size, find the size of the target in MILs by lining the target up with your MIL subtensions.

Depending on your preferred units of measure, you can use different formulae to calculate range estimates:

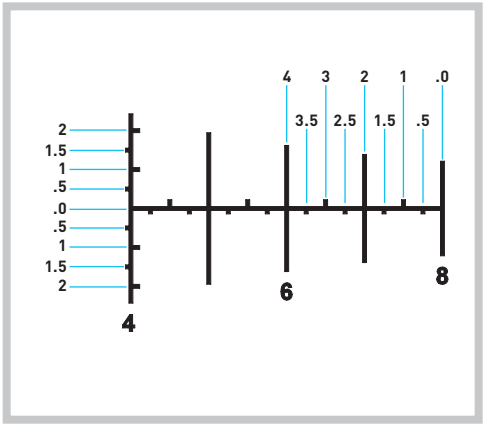
RANGE (YARDS) =
Target Size (Inches) * 27.78 / Target MILs

RANGE (YARDS) =
Target Size (Yards) * 1000 / Target MILs

RANGE (METERS) =
Target Size (Inches) * 25.4 / Target MILs

RANGE (METERS) =
Target Size (Meters) * 1000 / Target MILs

RANGE (METERS) =
Target Size (Centimeters) * 10 / Target MILs



ZEROING YOUR ACSS RETICLE

To achieve the best results with your ACSS reticle, you will need to zero it according to your rifle and ammunition. To help get you started, we've included a table with many of the most popular configurations. Please note that some fine-tuning may be necessary depending on your exact shooting conditions. This can be done by truing at further distances or using ballistic calculator applications. Starting on the left, locate your ammunition type and barrel length. Adjust zero depending on your bullet velocity, barrel length, and elevation above sea level, and dial in +/- in inches at 100 yards.

5.56mm				
M855 62gr	1,000 ft.	2,000 ft.	3,000 ft.	0 Distance
14.5" Barrel	+1.0	+0.5	0	100 yards
16" Barrel	+0.5	0	-0.5	100 yards
20" Barrel	0	-0.5	-1.0	100 yards
M193 55gr	1,000 ft.	2,000 ft.	3,000 ft.	0 Distance
14.5" Barrel	0	0	0	50 yards
16" Barrel	+1.0	+0.5	0	100 yards
20" Barrel	0	0	-0.5	100 yards
5.45 x 39mm				
7n6 53gr	1,000 ft.	2,000 ft.	3,000 ft.	0 Distance
16" Barrel	0	0	-0.5	100 yards

.223 Remington
55gr VMAX Zero at 100 yards 3,100 - 3,200 fps
60gr VMAX Zero at 100 yards 3,050 - 3,150 fps
69gr SMK Zero at 100 yards 2,900 - 2,950 fps
75gr HNDY +0.5" at 100 yards 2,700 - 2,750 fps
77gr SMK +1.0" at 100 yards 2,700 - 2,750 fps
7.62x51mm / .308 Winchester
M80 147gr +1.0" at 100 yards 2,650 - 2,700 fps
168gr SMK +1.0" at 100 yards 2,600 - 2,650 fps
6.5 Grendel
123gr VMAX Zero at 100 yards 2,600 fps
123gr VMAX Zero at 50 yards 2,550 fps
123gr VMAX Zero at 200 yards 2,500 fps
6.8 Rem SPC
120gr SST Zero at 100 yards 2,460 fps

WEAPON				DATE	
SHOT NO.	DIRECTION/DEFLECTION	ELEVATION	RANGE	AMMO	DESCRIPTION

NOTES:

WEAPON				DATE	
SHOT NO.	DIRECTION/DEFLECTION	ELEVATION	RANGE	AMMO	DESCRIPTION

NOTES:

WEAPON				DATE	
SHOT NO.	DIRECTION/DEFLECTION	ELEVATION	RANGE	AMMO	DESCRIPTION

NOTES:

PRIMARY ARMS

LIFETIME WARRANTY

Your Primary Arms SLx 1-10x28 Rifle Scope is covered by the Primary Arms Lifetime Warranty. If a defect due to materials or workmanship, or even normal wear and tear has caused your product to malfunction, Primary Arms will either repair or replace your product. You can find more details about our lifetime warranty at www.primaryarmsoptics.com.

Email: info@primaryarmsoptics.com
Toll-free at 855-774-2767
www.primaryarmsoptics.com

For more information on these optics, go to:
http://primaryarmsoptics.com/product-category/rifle-scopes/slx/

PRIMARY ARMS

For Patent Information go to https://goo.gl/2z62aS