



**SLX<sup>®</sup> 3-18x50 FFP**

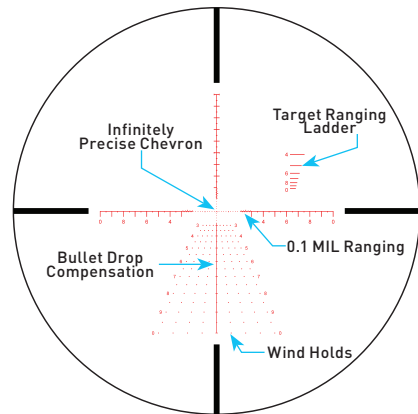
**ACSS<sup>®</sup> APOLLO<sup>®</sup> .308/6.5GR  
RETICLE MANUAL**

## THE ACSS .308/6.5GR RETICLE

The ACSS Apollo .308/6.5GR reticle is a dedicated .308 Winchester and 6.5 Grendel specific reticle that features easy to use bullet drop compensation and wind holds out to 1,000 yards. Overall, the reticle extends 10 MIL up, left, and right of the center chevron aiming point. Large hash marks are found in 1.0 MIL increments, with smaller marks between them at 0.5 MIL increments.

## THE CHEVRON TIP

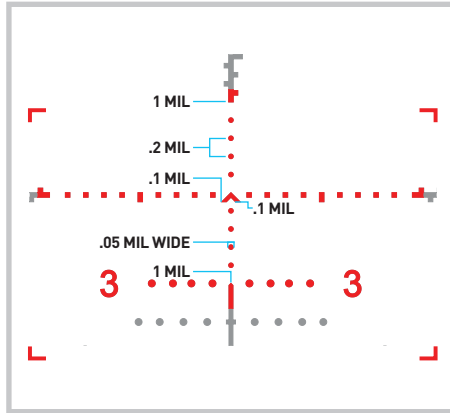
The ACSS Apollo uses a chevron as the center aiming point of the reticle. Adjust your Windage and Elevation knob positions so that the point of impact coincides with the tip of the chevron. Using the chevron tip allows for an infinitely small point of aim that never covers up the part of the target you want to hit, giving the chevron tip a precision advantage over traditional crosshairs or a center aiming dot.



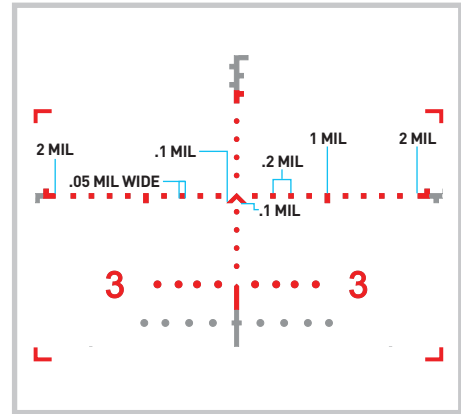
## THE ACSS APOLLO CENTER SECTION

The chevron measures just 0.1 MIL down from center and 0.1 MIL to the left and right of center. Thus, the outer tips of the chevron legs are located 0.1 MIL from center, and 0.2 MIL apart from each other. To the left and right of center, boxes are located at 0.2 MIL intervals with a slightly larger rectangle at 1.0 MIL from center for easy navigation. Small dots (0.05 MIL wide) are spaced at 0.2 MIL intervals above and below center for a total of 1.0 MIL distance.

VERTICAL CENTER SECTION



HORIZONTAL CENTER SECTION



## BALLISTICS CHART FOR THE ACSS APOLLO .308/6.5GR RETICLE

Instructions for using the ballistics chart: Find your caliber and bullet type. Match up your rifle's muzzle velocity with your altitude above sea level to find the proper zero distance and offset. Plus (+) and minus (-) numbers indicate desired bullet impact in inches above or below the point of aim during initial zeroing. The next chart includes our recommendations on zero for popular .308 Winchester and 6.5 Grendel loadings.

ER stands for Effective Range of the Apollo's BDC marks. Beyond the ER distance, bullet flight diverges from the BDC markings by 0.5 MIL or more. While hits are certainly possible on larger targets, precision

shooting at small targets beyond the ER range is more difficult. After initial sight-in, we recommend fine tuning point of impact at distances of 400-600 yards to maximize precision throughout the BDC.

Example: At 2,000 feet above sea-level, the ideal zero for 6.5 Grendel using a 123gr SST/AMAX Bullet at 2,580 fps is 0.25" high at 100 yards.

6.5 Grendel			
123 gr. SST/AMAX			
Muzzle Velocity	+1,000 ft.	+2,000 ft.	+3,000 ft.
2,600 fps	100 Yard Zero	100 Yard Zero	100 Yard Zero
2,580 fps	100 Yard Zero +0.25" ER 950 Yards	100 Yard Zero +0.25"	100 Yard Zero
2,550 fps	50 Yard Zero ER 950 Yards	100 Yard Zero +0.34"	100 Yard Zero +0.25"

**7.62x51mm/.308 Winchester****175 gr. SMK**

Muzzle Velocity	+1,000 ft.	+2,000 ft.	+3,000 ft.
2,650	100 Yard Zero	100 Yard Zero -0.25"	
2,625 fps	100 Yard Zero +0.25"	100 Yard Zero	100 Yard Zero -0.25"
2,600 fps	100 Yard Zero +0.5 ER 950 Yards	100 Yard Zero +0.25"	100 Yard Zero
2,575 fps			100 Yard Zero +0.25"
2,550 fps			100 Yard Zero +0.25" ER 950 Yards

**168 gr. AMAX**

Muzzle Velocity	+1,000 ft.	+2,000 ft.	+3,000 ft.
2,700 fps	100 Yard Zero	100 Yard Zero -0.25"	100 Yard Zero -0.25" ER 950 Yards
2,675 fps	100 Yard Zero +0.25"	100 Yard Zero	100 Yard Zero
2,650 fps	100 Yard Zero +0.5 ER 950 Yards	100 Yard Zero	100 Yard Zero
2,625 fps		100 Yard Zero +0.25"	100 Yard Zero +0.25"

**M80 147 gr.**

Muzzle Velocity	+1,000 ft.	+2,000 ft.	+3,000 ft.
2,750 fps	100 Yard Zero ER 800 Yards		
2,725 fps	100 Yard Zero +0.25" ER 800 Yards		
2,700 fps	100 Yard Zero +0.5" ER 700 Yards	100 Yard Zero ER 800 Yards	100 Yard Zero ER 950 Yards
2,675 fps		100 Yard Zero +0.25" ER 800 Yards	100 Yard Zero +0.25" ER 850 Yards
2,650 fps			100 Yard Zero +0.25" ER 800 Yards

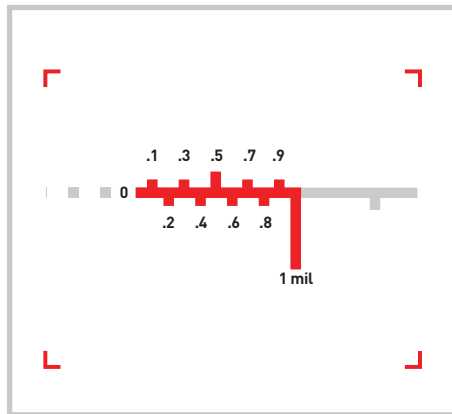
**168 gr. SMK**

Muzzle Velocity	+1,000 ft.	+2,000 ft.	+3,000 ft.
2,700 fps	100 Yard Zero	100 Yard Zero	100 Yard Zero -0.25"
2,675 fps	100 Yard Zero +0.25"	100 Yard Zero +0.25"	100 Yard Zero
2,650 fps		100 Yard Zero +0.25" ER 950 Yards	100 Yard Zero +0.25"

## THE ACSS APOLLO OUTER SECTION

At 2 MIL distance left/right from center, the solid crosshair line begins, using alternating upper and lower marks forming a MIL ranging section. These can be used to range targets using extremely fine 0.1 MIL increments. At 3.0 MIL from center, the 0.5 MIL hash marks begin.

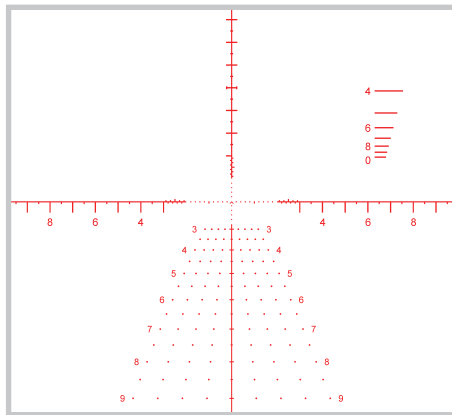
TENTH MIL SECTION



## BULLET DROP COMPENSATION & WIND HOLDS

Below center, Apollo features a .308 Winchester & 6.5 Grendel specific bullet drop compensation ladder. Sighting in Apollo so that your rounds impact at the tip of the chevron at 100 yards, hold midway between the 2nd and 3rd dots underneath the chevron for 200 yards. The BDC begins at 300 yards. Hash marks located at increasing 50-yard intervals indicate bullet drop all the way to 1,000 yards, with numbers labeling every 100 yard increase. After determining the correct range to your target, simply aim using the mark that coincides with that range. The hash marks can be subdivided to make even more precise shots on targets at ranges in between those 50 yard increments. For example, if a target is located 475 yards away, aim using a point halfway between the 450 and 500 yard hash marks.

Wind holds are indicated by dots extending to the left and right of the BDC. They are calculated to represent the distance that crosswinds of 5, 10, 15, and 20 mph will push the bullet left or right. For a wind pushing left to right, use the dots on the right side of the BDC. For a wind pushing right to left, use the dots on the left side of the BDC. For example, if the target is located 700 yards away and a 10-mph wind is crossing from left to right, navigate to the “7” line and use the second dots to the right as your point of aim.

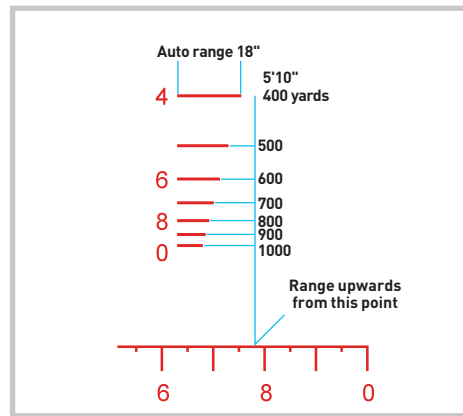


## RANGING LADDER

Located high and right of center is the ranging ladder. Vertical ranging is calibrated for a 5'10" tall target. Looking through the scope at the target, line up the bottom of the target with the horizontal crosshair. The line that coincides with the top of the target indicates the distance to the target. For example, if the top of the target touches the line with a "4" next to it, the target is 400 yards distant. The ranging lines may be used as reference points to make more precise, yet quick ranging determinations. For example, a 5'10" target with its top midway between the "4" line and the "5" line will be approximately 450 yards away.

Horizontal ranging is calibrated for an 18" wide target. Simply line up the target's width with the appropriate line to determine range to target. For example, an 18" wide target that appears to be the same width as the ranging line with a "6" next to it will be 600 yards away. This method is useful when the target's height is partially obscured, as with a target in tall grass.

RANGING LADDER SECTION





## 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 formulas to calculate range estimates:

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

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

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

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



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

**NOTES:**

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## LIFETIME WARRANTY

Your Primary Arms SLx 3-18x50 FFP 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](http://www.primaryarmsoptics.com).

Email: [info@primaryarmsoptics.com](mailto:info@primaryarmsoptics.com)

Toll-free at 855-774-2767

[www.primaryarmsoptics.com](http://www.primaryarmsoptics.com)

For more information on these optics, go to:

<http://primaryarmsoptics.com/product-category/rifle-scopes/slx/>



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