

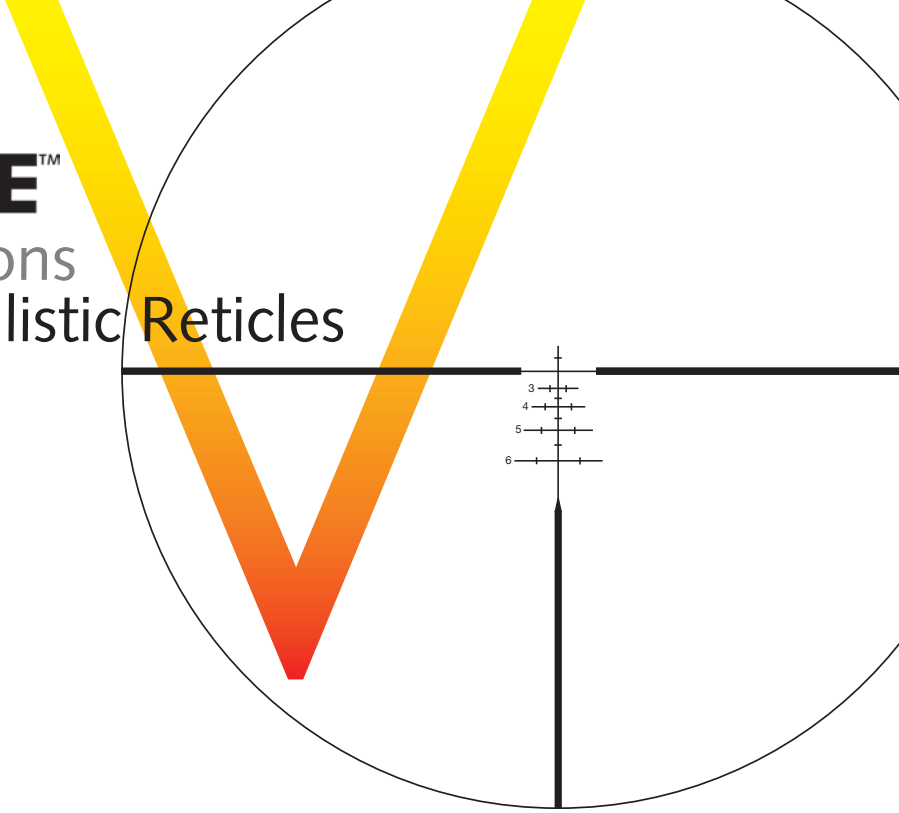


NIGHTFORCE™

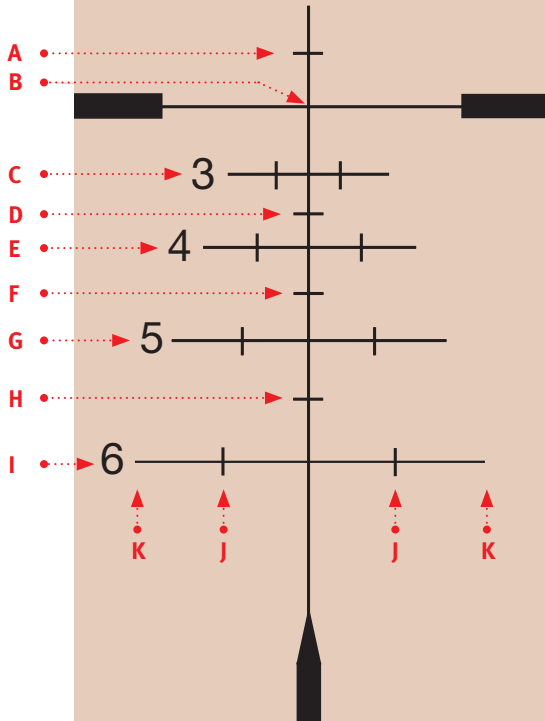
Instructions Velocity Ballistic Reticles

Our unique Velocity reticles are the solution for the hunter wanting to place accurate shots to 600 yards without sacrificing the speed and ease of use of a traditional hunting reticle.

We recommend spending some time learning the capabilities of your new V reticle and fine-tuning your zero to the reticle.



**Valid at 10x magnification
only for our 2.5-10x scopes.**



Elevation markings

The horizontal lines numbered 3, 4, 5 and 6 correspond with 300, 400, 500 and 600 yards. Smaller lines between each are 50-yard increments. The intersection of the main horizontal and vertical lines (B) is 200 yards, and the small mark above that (A) is your 100-yard aim point. We recommend sighting in your V reticle at 200 yards for best accuracy.

Windage markings

The vertical tick marks on the 300, 400, 500 and 600 yard lines (J) represent hold points for a 5mph wind (90 degrees from left or right), and the outer ends of these lines (K) are hold points for a 10mph wind.

Elevation measurements

We offer three different V reticles in our 2.5-10x Compact riflescopes: High Velocity (HV), Medium Velocity (MV) and Low Velocity (LV). One of these will accommodate most popular hunting calibers. The chart at below left shows elevation compensation in minutes of angle (MOA) at various ranges for each of the three V reticle configurations, based upon a 200-yard zero. **Please note: these values are valid ONLY at 10x magnification with our 2.5-10x scopes.** At any other magnification these values will change substantially. To make custom calculations on different sight-in distances or different loads, visit www.nightforceoptics.com. For details on how to fine-tune your zero for maximum accuracy, see "Optimizing your rifle to your reticle" on the reverse side of this sheet.

| | Yards | Minutes of angle (MOA) | | |
|---|-------|------------------------|-------|-------|
| | | HV | MV | LV |
| A | 100 | -1.16 | -1.40 | -1.80 |
| B | 200 | 0.00 | 0.00 | 0.00 |
| C | 300 | 1.92 | 2.25 | 2.71 |
| D | 350 | 2.98 | 3.50 | 4.25 |
| E | 400 | 4.16 | 4.92 | 5.90 |
| F | 450 | 5.41 | 6.40 | 7.77 |
| G | 500 | 6.70 | 8.00 | 9.71 |
| H | 550 | 8.07 | 9.75 | 11.85 |
| I | 600 | 9.57 | 11.56 | 14.00 |

NOTE: Reticle distance and windage markings are accurate ONLY at 10x magnification for our 2.5-10x scopes. Do not rely upon yardage markings at any other magnification setting.

Optimizing your rifle to your reticle

While the appropriate V reticle will provide outstanding accuracy out of the box to 600 yards, based on a 200-yard zero, by making minor adjustments in your sight-in distance you can maximize the precision of your V reticle at all distances. We've made this easy to do with an online program that will instantly calculate optimum sight-in distance for your rifle.

Go to www.nightforceoptics.com → Reticles overview → select the Velocity reticle, then click on “Ballistic reticle selector.”

1) Enter bullet and velocity data

Click on **Bullet Data (BC)** (A) to access a database of popular bullet brands and weights.

Select the bullet and weight, and click **Select** followed by **Return to main data form**. Enter the muzzle velocity of your load. If your bullet is not shown, you can also enter its weight, ballistic coefficient and muzzle velocity manually.

If you use a factory load, click on **Factory Loads (vel)** (B) to access our database of popular manufacturers. When you have finished, click **Next**.

2) Determine optimum sight-in distance

In the next window, check the **Scope selection** button (C) to make sure your scope is selected. Then click **Best reticle match** (D).

Underneath that button, you will see for **optimum sightin:** followed by the recommended sight-in bar and sight-in distance. In the example at right, the optimum trajectory for this cartridge is obtained by sighting in with the 200-yard bar, with the target placed at 195 yards.

The left column, **Reticle Spec MOA** (E) shows the standard hold measurements in MOA of the V reticle you have selected. The right column, **Impact Point Variance** (F) will change according to the data you have entered. These figures show, in MOA, the difference between reticle specifications and the actual impact point of your bullet.

In this example, at 500 yards (G) the variance is .16 MOA. At 500 yards you multiply $5 \times .16 = .80$ inches of variance. This reveals that for your chosen cartridge at the recommended sight-in distance, actual point of impact at 500 yards would be .80 inches above the 500 yard mark on the reticle.

You can adjust your elevation knob accordingly if time permits; or, just enjoy your hunt knowing that your Nightforce Velocity reticle will allow you to place a shot in the vital area of any target to 600 yards.

| Distance (yards) | Reticle Spec (moa) (E) | Impact Point Variance (+/- moa) (F) |
|------------------|------------------------|-------------------------------------|
| 100 | -1.4 | 0.01 |
| 200 | 0 | 0 |
| 300 | 2.25 | 0.03 |
| 400 | 4.92 | 0.07 |
| 500 | 8 | 0.16 (G) |
| 600 | 11.56 | 0.33 |
| 700 | | |
| 800 | | |
| 900 | | |
| 1000 | | |