

***Nikon***

En

# Guide to using the BDC Reticle

Manufacturer: **NIKON VISION CO., LTD.**

3-25, Futaba 1-chome, Shinagawa-ku, Tokyo 142-0043, Japan

Original Text Written by: Nikon Inc.

Edited by NIKON VISION CO., LTD.

Printed in the Philippines (797C)1E/1402

Thank you for choosing the Nikon BDC reticle riflescope. The BDC reticle is designed to compensate for the trajectory of your firearm. Regardless of the particular style of BDC reticle you have, the position of the circles are based upon an average trajectory for some of the more popular projectiles and cartridges on the market based upon the intended use of the scope itself.

Please note that the reticle is based upon ballistic information and may or may not meet the same results for you as there are many variables that come into play such as:

- Actual Velocity (Ammunition manufactures' information in regards to muzzle velocity may or may not match the velocity your firearm produces. The best way to determine the actual muzzle velocity for your firearm is to use a chronograph).
- Temperature
- Humidity
- Altitude
- Barometric Pressure
- Condition and inherent accuracy of the firearm
- The mounting system and how true it positions the scope to the centerline of the bore

**Note: This manual is not applicable to some reticles that are available in your region.**

As you read further into this manual, you will see the suggested parameters in which the reticle was based. These parameters will help you get started in optimizing your setup.

Note: It is imperative that the reticle be level in relation to the firearm. If the reticle is canted, even just a few degrees, it can cause the shot to drift off the centerline of the point of aim. There are many commercial leveling devices on the market, but the one that we find to be the most accurate in leveling the reticle is a plum bob. Use a bubble level to make sure the firearm is level, then look through the scope at an appropriately placed plumb bob and align the reticle accordingly.

Please also note that all Nikon BDC reticles were originally designed to be used on the **highest magnification**. Since changing the magnification changes the position of the circles in relation to the target, the distances listed along with each of the illustrations are at the highest magnification. The center crosshair does not change with magnification as it is placed in the optical center of the scope.

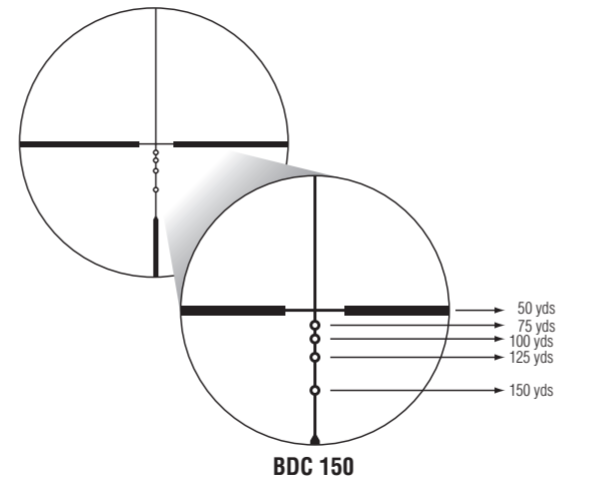
### BDC 150

The BDC 150 reticle was specifically designed to match the trajectory of today's hyper velocity .22 LR rimfire cartridges and provide the same bullet drop compensation found in other Nikon BDC reticle scopes.

When using a .22 LR with a muzzle velocity of approximately 1600 fps, the reticle is designed to be zeroed at 50 yards, providing bullet drop compensation for 75, 100, 125 and 150 yards using the respective ballistic circles as shown on the next page.

Please note that your firearm may or may not match the information listed for bullet drop based upon the variables listed in the beginning of the manual.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.

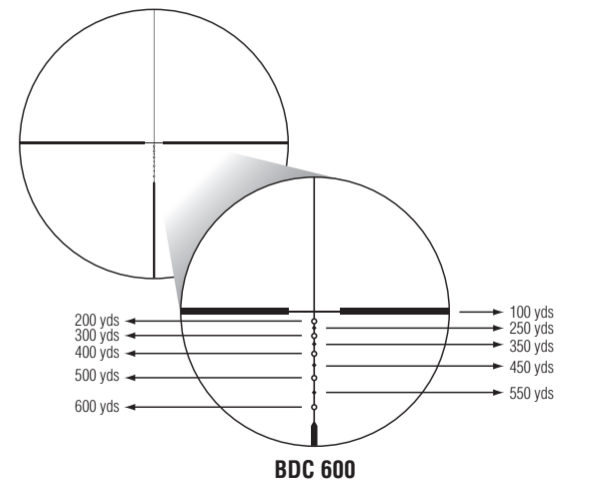


BDC 150

### BDC 600 / Illuminated BDC 600 with Dot

The BDC 600 reticle was designed specifically for the AR platform rifle in .223 Remington using a 55 grain polymer tipped bullet with a muzzle velocity of 3240 fps. The reticle was designed for a 100 yard zero, with circles representing 200, 300, 400, 500 and 600 yards, with hash marks in between the circles for hold points of 250, 350, 450 and 550 yards as shown on the next page.

Please note that your firearm may or may not match the information listed for bullet drop based upon the variables listed in the beginning of the manual.



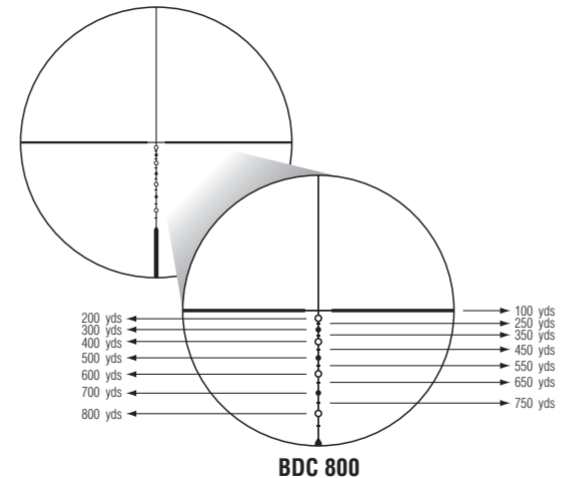
BDC 600

## BDC 800

The BDC 800 reticle was designed specifically for long range, heavy barrel AR platform rifles using .308 Winchester with 168 grain hollow point boat tail match grade ammunition with an approximate muzzle velocity of 2680 fps. The reticle is designed for a 100 yard zero, with alternating circles, hash marks and dots that provide multiple bullet drop compensation aiming points out to 800 yards using the ammunition specified above. The circles represent even number yardages (200, 400, 600 and 800 yards) while the dots represent odd number yardages (300, 500 and 700 yards) with the hash marks representing 50 yard increments between the circles and dots (250, 350, 450, 550, 650 and 750)

Please note the hash mark below the bottom circle as well as the pointed bottom vertical post can also be used for additional points of bullet drop compensation.

Please note that your firearm may or may not match the information listed for bullet drop based upon the variables listed in the beginning of the manual.



## Memo