Tech Notes-- 6X-24X
Xtreme Tactical™ Riflescopes

Background

Burris has long led in the development of riflescope technology to assist in long range marksmanship through outstanding high magnification optics, trajectory compensating reticles, and precision adjustment systems. The XTR series of riflescopes takes these characteristics to an even more advanced level of precision and durability.

With optical systems second to none, and superior eye relief and mechanical durability suited for all small arms, including the 50 caliber BMG variants, the XTR series was designed from the ground up as a world-wide battleground solution.

Elevation Radial Dial 1" Clicks

Rotation Indicator

XT-1000 Tactical Adjustment Knobs

Featuring the precision and durability of Steel-on-Steel construction, both radial and vertical resettable zero references, +(up) and -(down) revolution indicators, extreme environment quick detach adjustment dust caps, the XT-1000 Knobs deliver the most accurate, secure, and repeatable adjustments possible. Featuring 1" Elevation and 1/2" Windage adjustments AND a full 100 to 1000 yard adjustment range all within ONE REVOLUTION of the elevation dial is a truly unique and beneficial tactical solution.

360° Windage Radial Dial ½" Clicks

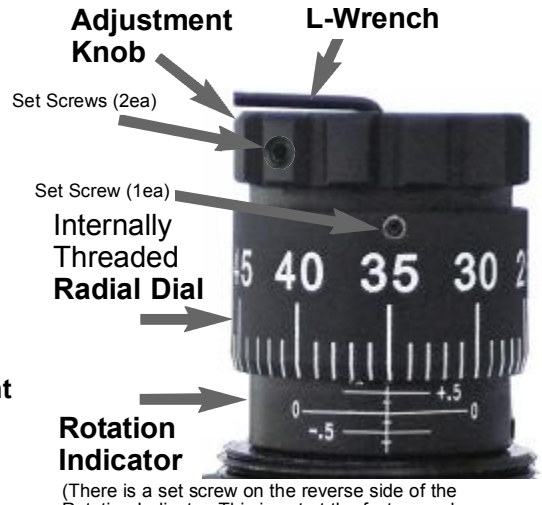
180° Windage Radial Dial ½" Clicks

The XT-1 and XT-1000 Knobs are the only we know of that provide the rifleman a true resettable zero reference. The **Rotation Indicator** is at zero half way through the adjustment range. Other brands usually have a series of numbers starting at one and increase vertically but do not really mean anything other than a comparative reference -- that is, the number "4" may be the true center of the scope rather than "0".

Each scope is assembled with a **360°** conventionally numbered **Windage Radial Dial** whereas the numbers increment all the way around the dial. A **180° Windage Radial Dial** is also included in the packaging. The **180° Windage Dial** numbers increment from zero and upward each 1" (with 1/2" clicks) both in the right and left directions around the dial allowing the marksman to more easily count adjustments each direction from zero for most applications where less than 1/2 turn of the dial is needed during deployment.

XT-1000 Knob - Setting The Knobs To Zero

1. Remove the **L-wrench** from the top of the **Adjustment Knob**.
2. Loosen the set screw on the **Radial Dial**. Rotate the Internally Threaded **Radial Dials** until the bottom of the dial bisects the Zero line on the **Rotation Indicator**. The zero on the **Radial Dial** likely will **NOT** line up perfectly with the zero on the **Rotation Indicator**. This will be corrected for in the next step. Tighten the set screw on each **Radial Dial**.
3. Loosen the set screws on top of the **Adjustment Knob**. Rotate the **Adjustment Knob** until the zero on the **Radial Dial** is lined up with the vertical line on the **Rotation Indicator**. Tighten the set screws on the **Adjustment Knob**.



(There is a set screw on the reverse side of the Rotation Indicator. This is set at the factory and should not be altered.)

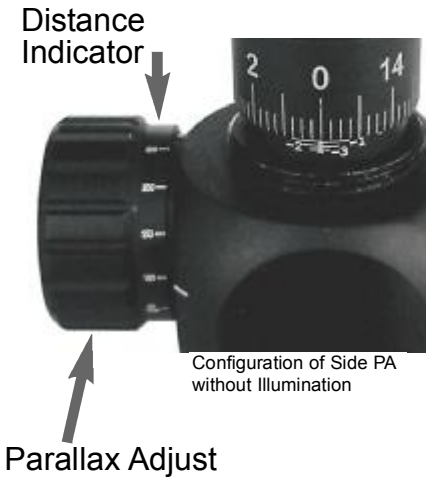
XT-1000 Knob - Replacing the Radial Dials

1. Loosen the two set screws on the knurled part of the **Adjustment Knob** until the entire **Adjustment Knob** can be separated from the adjustment post.
2. Take this separate assembly and loosen the set screw on the **Radial Dial**. Rotate the Internally Threaded **Radial Dial** counter clockwise several revolutions until it is fully unscrewed from the **Adjustment Knob**. Install the new **Radial Dial** onto the **Adjustment Knob** being careful not to cross-thread the threads. Do not tighten the set screw yet.
3. Install the **Adjustment Knob** back onto the adjustment post. Tighten the two **Adjustment Knob** set screws and then back off these set screws 1/8th turn. Holding the **Adjustment Knob** from turning, rotate the **Radial Dial** until the bottom of the **Radial Dial** bisects the zero line on the **Rotation Indicator**. Tighten the set screw on the **Radial Dial**.
4. Turn the **Adjustment Knob** until the zero on the **Radial Dial** is lined up with the vertical line on the **Rotation Indicator**.

Side Parallax Adjustment

An optimum sized parallax adjustment knob is located on the left side of the adjustment turret for ease in seeing and adjusting for parallax at varied distances. This knob also features large easy to see distance indicators and large deep relief finger grooves to assist adjustment in cold weather or with gloves.

Rotate the parallax adjustment knob until the distance marking corresponding to the target distance lines up with the reference mark on the scope turret.



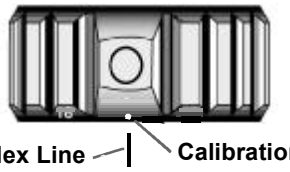
Configuration of Side PA without Illumination

14X Ballistic Mil-Dot™ Reticle

The Burris Ballistic Mil-Dot Reticle has been very popular for many years with long range shooters for both big game hunting and varmint shooting. The original Ballistic Mil-Dot reticle was designed to be optimized for extremely fast shooting, flat trajectory cartridges and is ideally suited to the military and law enforcement ultra long range standard of the 300 Win Magnum 190gr Sierra Matchking.

Designed for the center crosshair to be sighted in (zero'd) at 100 yards, then each additional ballistic line below center represents 100 yards in additional target distance.

It is important to note that the calibration of the XTR Ballistic Mil-Dot Reticle or Mil-Dot reticle is set very near 14X magnification and must be set at the calibrated magnification to assure it's trajectory compensating characteristics as shown. The Power Ring has a calibration dot which must be lined up with the index line on the scope tube to achieve the designed calibration.

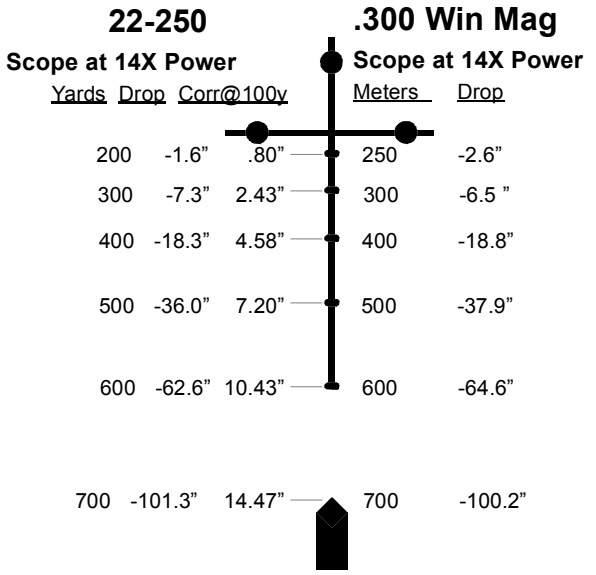


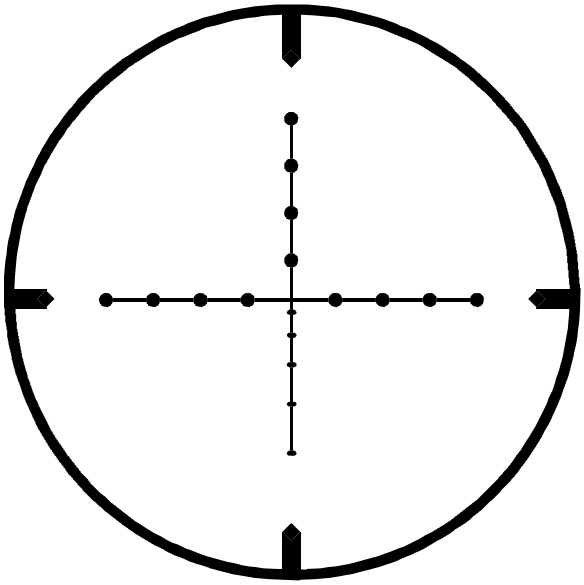
Standard Mil-Dot

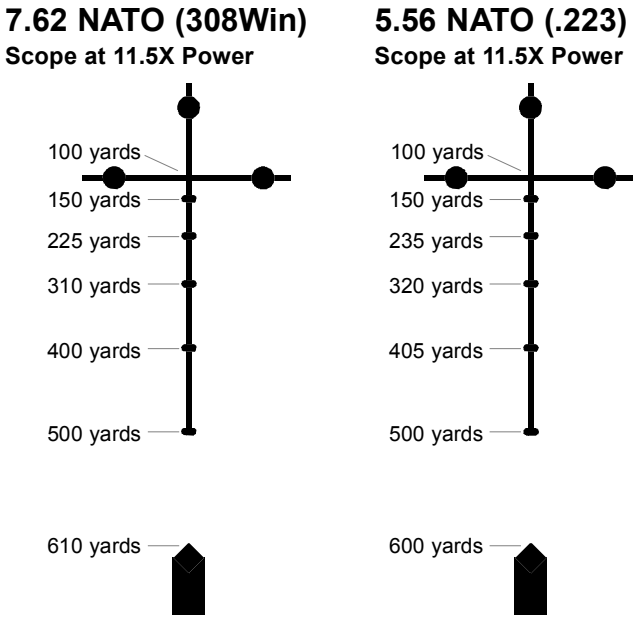
The top, left, and right quadrants of the reticle are a standard Mil-Dot system which can be used in the traditional manner for yardage estimation when a laser or coincidental rangefinder is not available. A separate Mil-Dot reference pamphlet #INSTR-1011 is available from Burris at no cost.

Flexibility

Although the XTR Ballistic Mil-Dot Reticle is optimized to several flat shooting cartridges, with various sight-in distances and magnification changes, this reticle can be quite useful for many other cartridges. The illustrations given at right show two examples of how this reticle can be used in conjunction with another common military and law enforcement cartridge -- the 7.62Nato (.308 Win) with 175grain Sierra Matchking bullet and the 5.56Nato (.223 Rem) with 77gr Sierra Matchking bullet. Another Tech Note for the Burris Ballistic Mil-Dot reticle is available that shows additional ways of using the Ballistic Mil-Dot system -- ask for publication #900107.



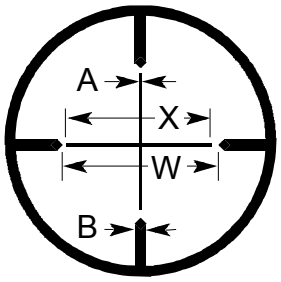




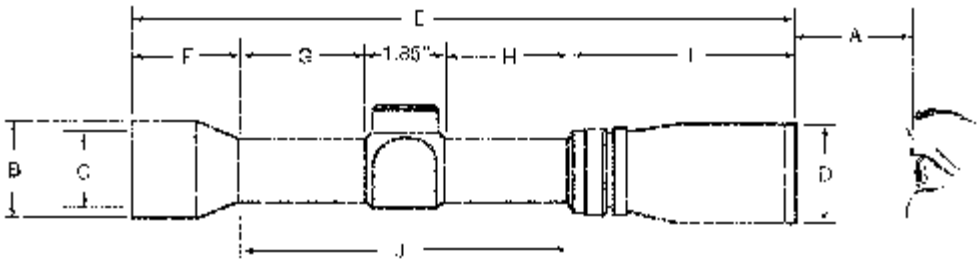
6X-24X Xtreme Tactical™ Riflescope

Specifications

6X-24X Xtreme Tactical		
Model	6X-24X-50mm	
	english	metric
Field of View ** Low-High (feet or meters)	19 - 5.3	5,8 - 1,6
Exit Pupil (mm) Low - High		7.6 - 2.1
Click Value(Inch@100yards) (cm@100M)	1"E, .5W	2.77E, 1.39W
Max Adj. (Inches@100yards)1 (cm@100M)	79E, 29W	219E, 80W
Weight (ounces or grams)	26	737
Scope Dimensions	inches	cm
A - Optimum Eye Relief	3.2-3.7	9 - 10
B - Objective End Dia	2.28	5,8
C - Clear Objective Dia	1.97	5,0
D - Ocular End Dia	1.65	4,2
E - Overall Length	16.5	41,9
F - Scope Dimension	4.5	11,4
G - Scope Dimension	2.7	6,9
H - Scope Dimension	3.2	8,1
I - Scope Dimension	3.7	9,4
J - Scope Dimension	7.8	19,8
Adjustment Turret	1.85	4,7
Reticle Subtensions	*Inch @ 100 Yrd*	*mm @ 100 meter*
Fine Plex Dim.A High Magnification	.08	2.1
Fine Plex Dim.A Low Magnification	.28	7.7
Fine Plex Dim. B High Magnification	.19	5.2
Fine Plex Dim. B Low Magnification	0.7	19
Fine Plex Dim.W High Magnification	3.9	109
Fine Plex Dim.W Low Magnification	14.3	398
Fine Plex Dim.X High Magnification	2.8	77
Fine Plex Dim.X Low Magnification	10.2	283
B-Mil-Dot & Mil-Dot Dim. A High Mag	.11	3
B-Mil-Dot & Mil-Dot Dim. A Low Mag	.41	11
B-Mil-Dot & Mil-Dot Dim. B High Mag	1.8	50
B-Mil-Dot & Mil-Dot Dim. B Low Mag	6.5	182
B-Mil-Dot Line 1 @ 14X	0.86	24
B-Mil-Dot Line 2 @ 14X	2.63	73
B-Mil-Dot Line 3 @ 14X	4.95	138
B-Mil-Dot Line 4 @ 14X	7.79	216
B-Mil-Dot Line 5 @ 14X	11.3	314
B-Mil-Dot Low Post @ 14X	15.7	435
	Inch @ 100 Yrd	cm @ 100 meter
B-Mil-Dot Posts to Center (L, R, UP) (5 Mil)	18	50
B-Mil-Dots Center to Center (1 Mil)	3.6	10
B-Mil-Dots Diameter @ High Power (1/4 Mil)	0.8	2,5
Mil-Dot Posts to Center (L, R, UP) (5Mil)	18	50
Mil-Dots Center to Center (1 Mil)	3.6	10
Mil-Dots Diameter (1/4 Mil)	0.8	2,5



Stackable Sunshade
Item# 626033
Fits XTR & Black Diamond Side PA 50mm Riflescopes. Aluminum. Matte finish. Three inch length. You can extend the sunshade by screwing additional sun-shades on to each other.



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