

# SCHMIDT BENDER

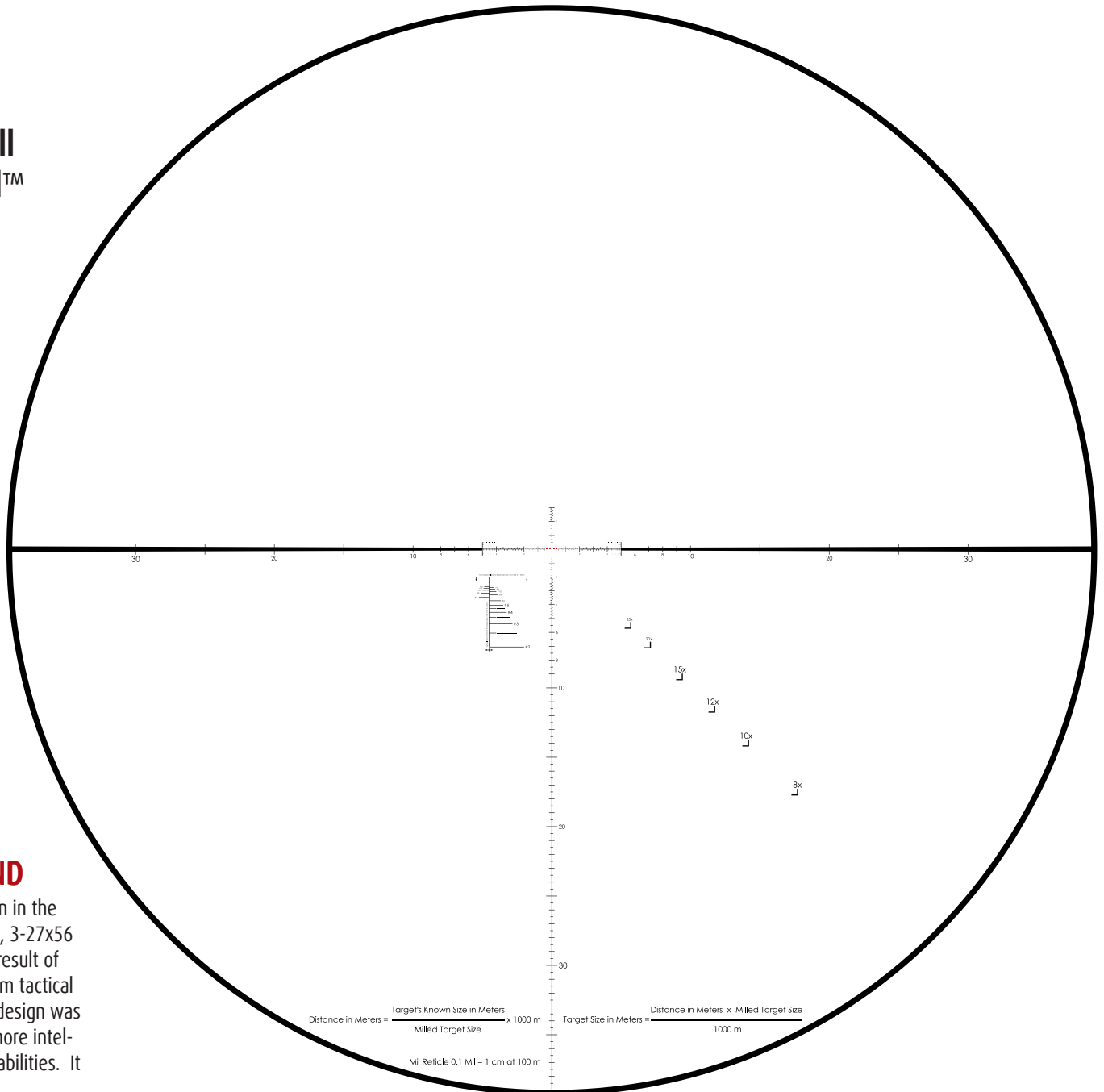
PRECISION MAKES THE DIFFERENCE!



**NEW PRODUCTS 2017**

## LRR-MIL

New for 2017, Schmidt & Bender will release the newly designed LRR-Mil™ milliradian-based intelligent reticle



### IT WAS DESIGNED WITH THE TACTICAL PRECISION SHOOTER IN MIND

This reticle will be offered as a first focal plane reticle design in the following four PM II™ models: 3-20x50 Ultra Short, 5-25x56, 3-27x56 High Power, and 5-45x56 High Power. The LRR-Mil™ is the result of consultation from many respected and proven operators from tactical communities in several countries. The purpose behind the design was to offer an updated, non-cluttered, easy to reference, and more intelligent mil-based reticle with proper aiming and ranging capabilities. It is scheduled for initial release in May/June 2017.

## THE RETICLE CONTAINS THREE MAJOR COMPONENTS IN ITS ARCHITECTURE

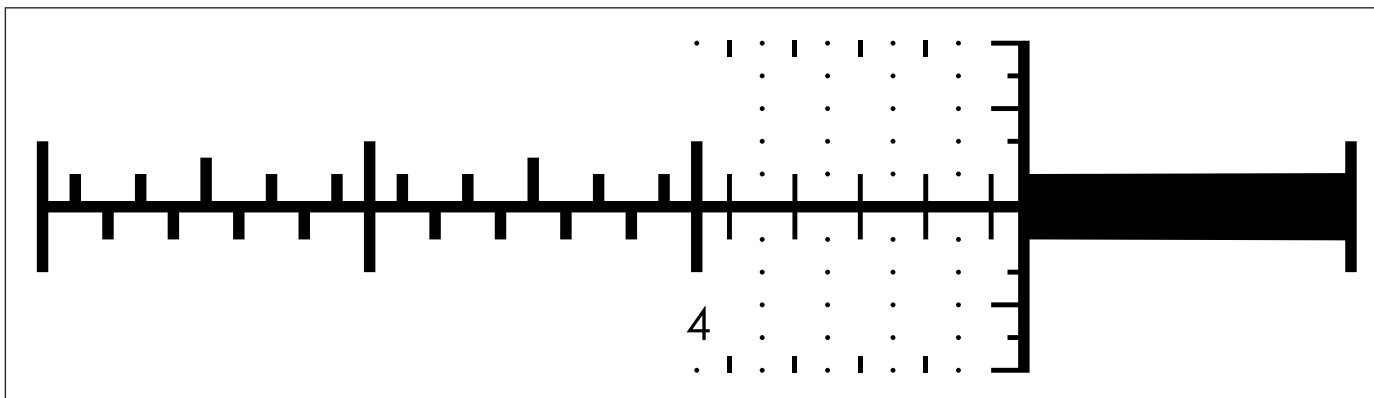
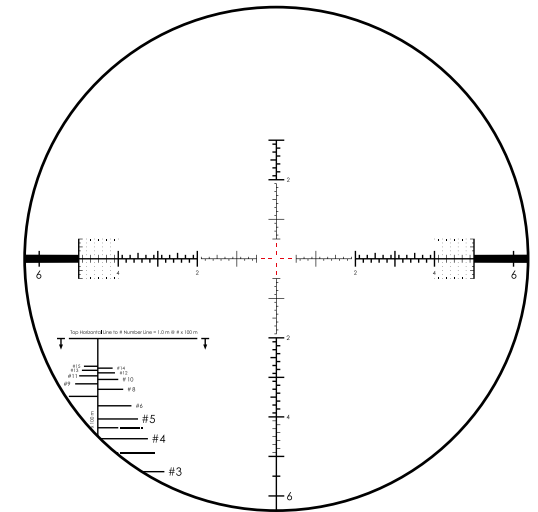
They include the main reticle, the power identification indicator, and the meter and half-meter ranging scale. This is an illuminated reticle, and the center dot and center cross are the only portions of the reticle that illuminate. The reticle's milliradian (mil) math is based upon the metric system, and references 0.1 mil, 0.2 mil, 0.5 mil, and whole mil increments throughout. (Example: 0.1 Mil = 1.0 centimeter at 100 meters AND 1.0 Mil = 10 centimeters at 100 meters).

## EASY CENTERING OF THE TARGET

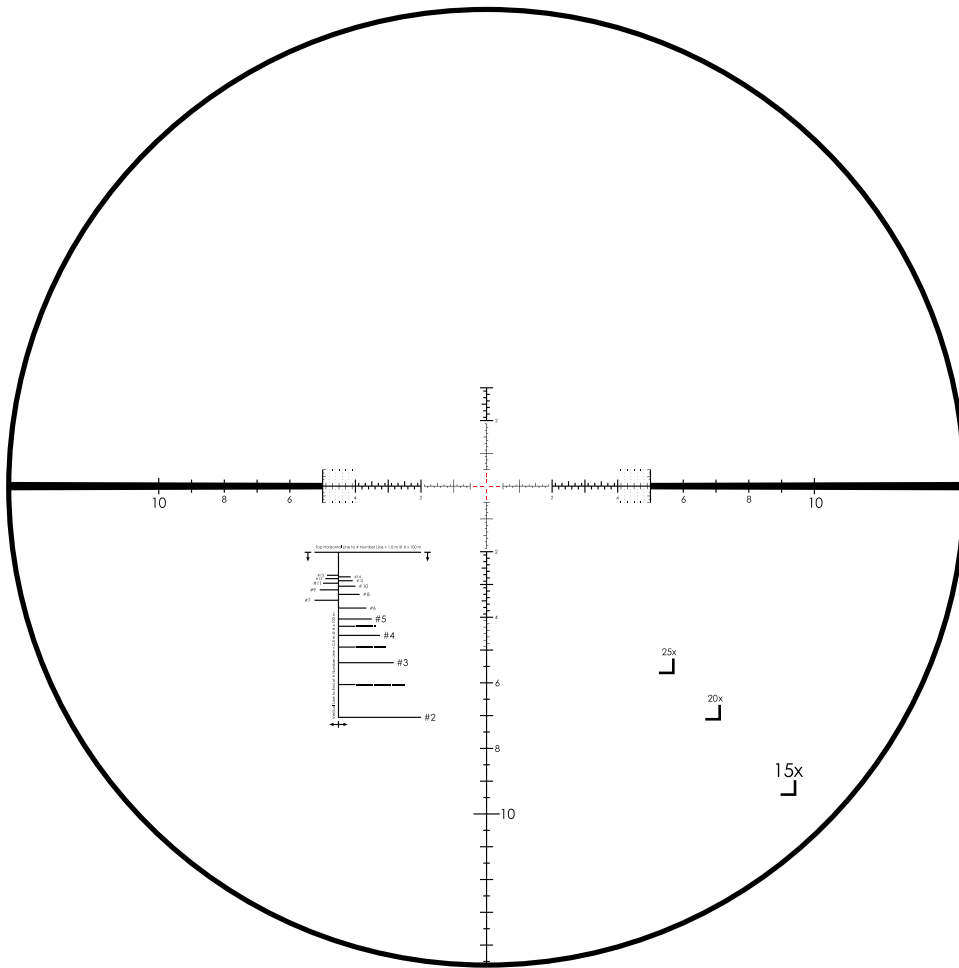
The main reticle incorporates three reference lines from the edge of the field of view at 3, 6, and 9 o'clock positions, which allows for quick and easy centering of the target. The horizontal lines, from 3 and 9 o'clock positions, are represented as **solid bold conical-shaped** line reticles from the edge of the field of view to the 5.0 mil marks, which greatly aids in fast target acquisition in low light or when challenged with shadowed backgrounds. The vertical legs are represented as a single line reticle. The upper vertical leg of the reticle extends above center, towards 12 o'clock, for 3 mils of value, in 0.1 mil increments. The mils are numbered and clearly marked, for easy reference, in even numbers, from 2 - 10 mils, on the horizontal leg and on the lower vertical leg. In addition to this, the 20 and 30 mil marks are also indicated in numerical fashion, with indicators at 15 and 25 mil marks. The center aiming point is an **ultra-fine dot covering just 0.16 cm at 100 meters**, which allows for precise shot placement. Adding to this, the dot is surrounded by an interrupted center cross. The interruptions are 0.1 mil spaced, and aids the shooter in quick ranging or estimating while maintaining the center of the reticle on the primary target. They also serve well for hold-off, hold-over, and hold-under aiming corrections. From the center of the reticle, to the 2.0 mil mark, the reticle is graduated in a 0.1 mil increment scale, and then converts to a 0.2 mil increment scale from the 2.0 mil mark to the 4.0 mil mark.

## FINE GRADUATED RANGING AND ESTIMATING BOX

On the horizontal reticle, beginning at the 4.0 mil mark, and extending to the 5.0 mil mark, at both the 3 and 9 o'clock positions, there is a fine graduated ranging and estimating box, consisting of 0.1, 0.2, 0.5, and 1.0 mil graduations for reference. This is for assistance in dealing with very distant or small targets. On the 6 o'clock vertical leg, beginning at the 5.0 mil mark, the reticle has 0.5 mil and 1.0 mil graduation marks down the remaining portion of the reticle.



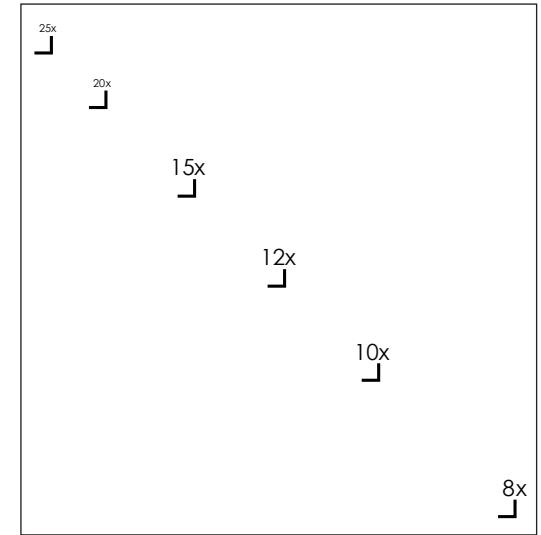
# NEW RETICLE // LONG RANGE RETICLE - MIL



As an added bonus, Schmidt & Bender added two supporting mathematical formulas at the lower left and right of the reticle's center at the six o'clock position. The formulas are visible when the rifle scope is set on its lowest magnification. The formulas reference solutions for determining "Distance in Meters" as well as "Target Size in Meters". This information helps to support the operator while in the field and behind their weapon.

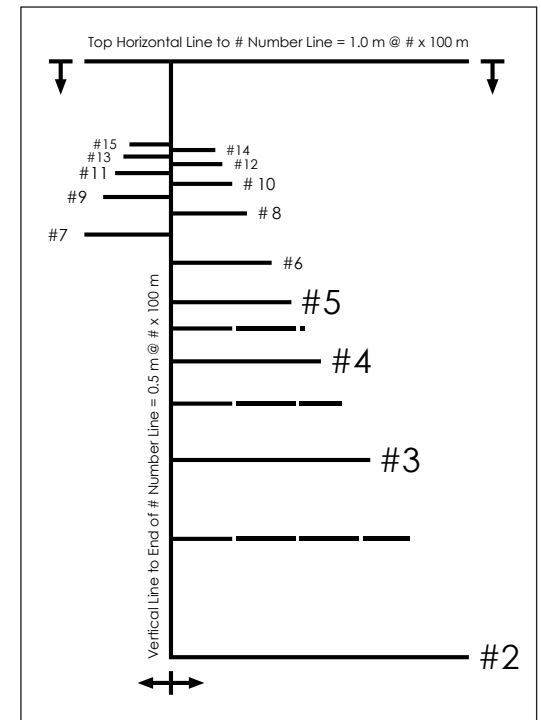
|  |  |
|--|--|
| $\text{Distance in Meters} = \frac{\text{Target's Known Size in Meters}}{\text{Milled Target Size}} \times 1000 \text{ m}$ | $\text{Target Size in Meters} = \frac{\text{Distance in Meters} \times \text{Milled Target Size}}{1000 \text{ m}}$ |
| Mil Reticle 0.1 Mil = 1 cm at 100 m  |  |

The power identification markings are located at the lower right hand quadrant of the field of view. This is unique and represents a smart, user-friendly design that allows the operator to see which power setting they have the rifle scope set to without having to break away from their shooting position. The power setting is indicated by referencing the corresponding number to edge of the field of view, while looking through the scope.



Markings indicate rifle scope's power setting

The LRR-Mil™ reticle has a clean, uncluttered and easy to understand meter and half-meter ranging scale, in the lower left quadrant. This ranging scale allows for a 200 meter to 1500 meter range estimating option. In support of the scale, Schmidt & Bender has incorporated easy to read instructions along the scale's vertical and horizontal edges. This allows for quick field reference and reduces the learning curve of this feature.



Meter and half-meter scale for range estimation

New for 2017, Schmidt & Bender will release the proprietary version of a **removable magnification throw lever** designed to fit several of the popular PM II™ models of riflescopes

### REMOVABLE MAGNIFICATION THROW LEVER

This allows for fast access and manipulation of the power/magnification adjustment – even with gloved hands. Currently these models include the 1-8x24 ShortDot CC, 1-8x24 Short Dot Dual CC, 3-20x50 Ultra Short, 3-20x50, and 3-27x57 High Power. In the near future, this accessory will be available for all PM II™ models. This is a machined aluminum design, and the construction is robust and clean. It consists of the main body, representing the center section, and hinged clamping plates on both the left and right side of the main body. The two hinged sections allows for the two plates to serve as clamps to affix and hold the throw lever to the magnification adjustment ring. The clamping takes place via a single Allen® head 1.5mm bolt, running through the plate, the center section, and then tightened to the inset nut on the opposite plate. The assembly is both functional and clean in appearance. The size of the lever extends approximately one inch above the magnification adjustment ring. The width and length is approximately 0.600" and 0.900" respectively. The finish is hard anodized and is satin black in color. This matches the black finish on the Schmidt & Bender riflescopes. Due to the design of the throw lever, and the design of the specific models of the rifle scope's magnification ring, the operator can select the appropriate location to install the throw lever where it best suits their intended application and needs. The installation is not limited to one fixed position. The release of Schmidt & Bender's latest accessory is schedule for May 2017. This well-designed throw lever should be a welcomed option to all of the dedicated Schmidt & Bender operators whether for law enforcement, military, or tactical competition use. See supporting imagery below...



**Magnification Throw Lever attached at 12 o'clock position**

## THROW LEVER



## MULTI-TURN II™

New for 2017, Schmidt & Bender is offering an advanced version of the **Multi-Turn turret adjustment** referred to as the Multi-Turn II™



## INTELLIGENT ELEVATION ADJUSTMENT FOR TACTICAL USE

The original Multi-Turn elevation adjustment is offered in only a few models of riflescopes as a target style adjustment. The design has proven to be robust, with repeatable adjustments, very user-friendly, and has prompted demand from customers to have this type of elevation adjustment as an option available for other popular models. Schmidt & Bender's engineering team designed the advanced Multi-Turn II turret adjustment to achieve a highly functional, repeatable, lockable, and intelligent elevation adjustment for tactical use. It is a highly specialized turret adjustment with additional features designed into it. The new Multi-Turn II serves as a rotational indicator, via a window atop the adjustment, clearly indicating rotation status in numerical values from 1 - 5. In addition to the visual indicator, the new design also provides a tactile indicator for each rotation of the turret.



Red lever marking only for illustrational purpose



Unlocked lever position for activated MTC

Red lever marking only for illustrational purpose



Unlocked lever position for deactivated MTC

## SUB-ZERO STOP SETTING

The Multi-Turn II adjustment also has a sub-Zero Stop setting. In addition to this, it also incorporates a three-way multi-functional lever that allows the operator to determine how they want their clicks to "feel" and if they want to lock the turret. The lever is located on the barrel side of the elevation adjustment, and operates within three positional settings. With the lever pointing towards the barrel's muzzle, the adjustment is in the "locked" position. With the lever rotated one position counter-clockwise, the adjustment is unlocked and allows for the More Tactile Click (MTC) feature. With the lever rotated to the final position, counter-clockwise, the adjustment is unlocked and bypasses the MTC feature. The new Multi-Turn II™ will be available for the 3-20x50 PM II™ Ultra Short and 3-27x56 PM II™ High Power models, with 393 centimeters (39.3 Mils) adjustment value. It will also be available for the 5-25x56 PM II™ and 5-45x56 PM II™ High Power models with 270 centimeters (27.0 Mils) adjustment value. Furthermore, the new design offers click values in 0.5 centimeter (0.050 Mil), allowing for finer zeroing and greater precision for long-range shooting.

# SCHMIDT BENDER

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