

# BALLISTIC TURRET

Long distance shooting made easy



**SWAROVSKI**  
OPTIK

## THE SWAROVSKI OPTIK BALLISTIC TURRET

---

Firearms, ammunition and riflescopes have become more advanced over the last few years allowing for the harvesting of game at longer distances than previously thought possible. The Ballistic Turret (BT) series of riflescopes from Swarovski Optik is one such major advancement.

The Ballistic Turret gives the hunter the means to set a zero distance plus 3 more easy to set, see and use down range distance settings of your choosing - 4 clearly marked settings. Once set up, you simply turn the turret a few clicks up to the appropriate down-range distance desired so you can hold the crosshair precisely where you want the bullet to hit. To get back to your zero setting, simply turn the turret back where it will automatically stop at your pre-set zero setting.

The shooter will still have to accurately determine distance to the target (as with a laser range finder), account for wind when necessary, and keep in mind the limitations of the cartridge being used with the game being hunted.

The following information shows you short step-by-step instructions to set up your own ballistic turret.

At [www.swarovskioptik.com/bt](http://www.swarovskioptik.com/bt) <<http://www.swarovskioptik.com/bt>> you will find the BT Ballistic Calculator and detailed instructions on how to use it.



---

## EASY, ACCURATE AND PRACTICAL:

- You can mount and accurately adjust your ballistic turret to your firearm in just a few steps.
- In addition to the 4 marked distances, there are additional distance settings available.
- A specifically-developed ballistics program calculates for you the values that you need (number of clicks) for your desired distances.
- After the BT is set up the turret will return to the zero setting when turned back down. The colored down range settings make the down range adjustments easy, even in low light conditions.

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

---

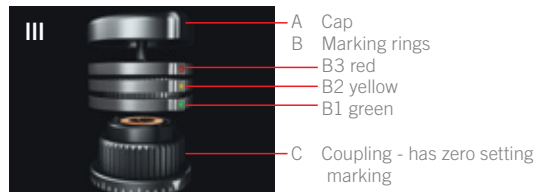
## DISASSEMBLY



Unscrew the cap of the ballistic turret using the key supplied or an adequate coin.



Use the graduated dial by pulling upwards.



You will now have the 5 removable parts in front of you. All other parts are affixed to the rifle scope.

## ASSEMBLY AND POSITIONING



Sight in the elevation by turning the top section of the dial as shown in figure 01. If you are sighting in at 100 yards, turn to the right or left until your elevation is dead on at 100 yards. This will become the zero setting during further assembly.



After sighting in to your desired zero setting, turn the lower section of the dial in a clockwise direction until it stops as shown in figure 02.



Attach the coupling (c) on top of the dials so that the arrow on the coupling lines up with the white dot at the base of the turret. You have now made the setting for your desired zero range. If procedure 02 was followed, the coupling will always stop at this zero setting when the turret is turned clockwise.

## POSITIONING



Please check whether the entire control range (just under 360°) is accessible. To this end, turn the coupling in a counterclockwise direction all the way to the end stop. Now turn the coupling back again to the end stop (arrow on the point). *Look under „Supplementary note“ for more information.*



For your second down range distance, turn the coupling in a counterclockwise direction by the necessary number of clicks and attach the (green) marking ring (B1) so that the green dot is directly above the white dot on the base of the turret. The necessary number of clicks can be determined by the BT Ballistic Calculator on our web site, by sighting in at the desired down range distance or by calling customer service at 800-426-3089.



Your third (yellow marking ring) and fourth (red marking ring) down range distances can be determined in the same way as you made them in section five. (See Sight In Example on page 11.)

## POSITIONING



Now turn the entire turret in a clockwise direction all the way to the end stop at the zero setting.



Attach the cap (A) such that the directional tab lines up with the arrow and with the dot on the rifle scope. The cap can be screwed on with the key that was supplied. Your ballistic turret is now ready for use.

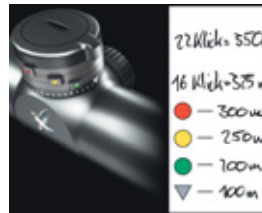
### Function

Once the Ballistic Turret is fully assembled at your pre-determined distances, the entire turret must be turned to the appropriate setting. In the 30-06 example above, if you have a 300 yard shot, turn the turret to the yellow setting, hold the crosshair where you want the bullet to hit and shoot.

Should you desire to set a further distance than your furthest (red) down range distance you can by using the ballistic turrets white scale. The number of clicks needed for this purpose can be determined by the BT ballistic calculator on our website or by calling customer service at 800-426-3089. The ballistic calculator will show this farthest distance as total clicks from the 1st or zero setting.

Good hunting!

## PRACTICAL TIPS



Write your personal distances on one of the decals supplied. You can place it wherever you wish – and you will surely hit your target faster.

### Sight In Example

In this following example you are sighting in a 30-06 using a 180 gr bullet with a ballistic coefficient of 0.480 at a velocity of 2700 fps. You want to make the settings to be zeroed at 100 yards with the other down-range settings to be at 200, 300 and 400 yards. Zero your rifle at 100 yards as described in steps 01 through 03 for your 1st setting. The 2nd setting at 200 yards requires you come up 8 clicks to set the green marking ring. The 3rd (yellow-300 yds) setting requires you come up 11 more clicks from the green 200 yard setting to hit dead on at 300 yards. The 4th (red-400 yds) setting requires that you come up 13 more clicks from the yellow 300 setting to hit dead on at 400 yards. Another way to visualize this is that you have come up a total of 32 clicks (8+11+13=32) to get to the 400 yard or red setting.

Supplementary note: Should the full control range (just under 360) that is described under section 04 not be there (the turret has stopped somewhere before almost 1 revolution), this might be indicative of a scope to barrel alignment problem due to the mounting system. Please contact us at [info@swarovskioptik.us](mailto:info@swarovskioptik.us)

At [www.swarovskioptik.com/bt](http://www.swarovskioptik.com/bt) you will also have the possibility, additional to the BT program, to be guided through the individual assembly steps for your ballistics turret with the help of 3D animation.

**SWAROVSKI OPTIK KG**

6067 Absam · Austria

Tel. +43/5223/5111-0 · Fax +43/5223/41 860

[info@swarovskioptik.at](mailto:info@swarovskioptik.at)

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

BA-661/5, 07/2007

We reserve the right to make changes to the design and supply.