GPO

GERMAN · PRECISION · OPTICS

SPECTRA™ RIFLESCOPES

Dear customer,

We are delighted that you have chosen our SPECTRA riflescope and would like to thank you for trusting in our products. It is important for us to provide you with the best product and if ever needed, the best service support available so that you can enjoy your outdoor passion to the fullest.

Enjoy your PASSION™

Safety Instructions

Please carefully read these safety instructions and follow these guidelines when using this product.

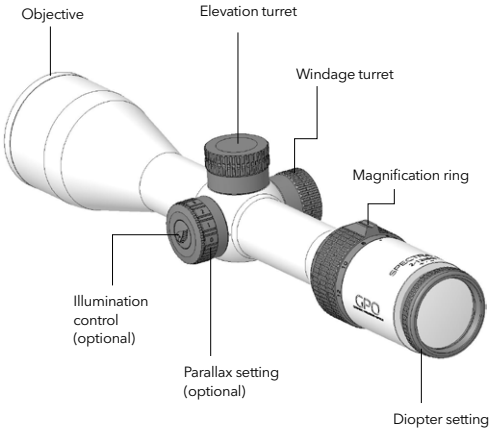
Never look directly into the sun, bright light sources or laser based light sources through your riflescope or any other optical product. This can cause irreparable eye damage. Optics in riflescopes function as a magnifying glass, therefore dramatically increasing the intensity of the light source.

Store the riflescope and all accessories included with this product out of reach of children. Some of our products may contain small parts which could create a choking hazard for small children, or nylon straps which could create a strangulation hazard.

Be cautious when touching metal parts when the product has been stationary and extensively exposed to the sun or the freezing cold, as extremely hot or frozen mental components may cause an injury to exposed skin.

After using this product, always use the protective cover provided to avoid accidental light magnifying, which may create a fire.

Avoid improper shock, such as dropping this product. It is an optical instrument and damage may occur.
Repairs should be solely handled by an authorized repair location or GPO GmbH. The improper and unauthorized usage, disassembly or repair of the products by a non-authorized repair business may result in the termination of this product's warranty. For service or repair, please contact GPO at info@gp-optics.com



Information before using this product

To avoid unnecessary mounting complications, please have this riflescope mounted by an authorized dealer, a certified gunsmith or make sure your scope mounting skills are sufficient to eliminating mounting damage.

Make sure that the firearm is unloaded and safe while the riflescope is being mounted onto the firearm.

Make sure all mounting screws that attach the riflescope to the rifle are tight before firing the rifle and that the rifle has been properly sighted in. Loose mounts will result in bullet impact shifts.

Please make sure that the riflescope works properly before using it on your firearm. Check all optical features such as parallax adjustment, fast focus ocular, turret caps and turret adjustment rings. It is important that the riflescopes parallax and fast focus is adjusted properly so you can see a sharp image when looking through the riflescope.

Before firing the rifle, be sure that the riflescope is mounted with enough distance between the riflescope and your eye. Improper mounting may cause injury during recoil.

Your authorized dealer or a GPO technical service representative will be pleased to answer any questions you may have.

Parallax compansation

Since the reticle image and the target image are on different focal planes, it is difficult for the eye to reproduce both images at different distances sharply. Therefore, select riflescopes are equipped with parallax compensation for long distances and higher magnifications. Parallax adjustment will join these 2 images, making a single sharp target and reticle image at the same time. Therefore, you will need to adjust the sharpness of the reticle first with the ocular diopter ring. Then, you will need to adjust the parallax which will sharpen the target image to meet the reticle image. Riflescopes with no parallax compensation are adjusted to 100 meters/110 meter.

Adjustment of the riflescope image, riflescope without parallax compensation

Select an object and look through the riflescope. Use the highest magnification on the riflescope during this process. Turn the diopter adjustment (ocular focus ring) to make the image sharp. Focusing the riflescope at the highest magnification will always provide a sharp image at the lower magnification range. Riflescopes with no parallax compensation are adjusted to 100 meters/110 meter.

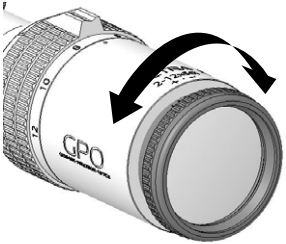


Image 1
Diopter setting

Adjustment of the riflescope image, riflescope with parallax compensation

If you have a riflescope with parallax compensation select a distant object over 300 meter and look through the riflescope. Adjust the diopter ring (ocular focus) to generate a sharp reticle image. Tip: Best is to choose a blank clear sky or cover the objective with a tissue, then focus the reticle with the ocular diopter ring. This way your eye is not confused to attempt to focus on the reticle and the distant object at the same time.

Afterwards, adjust the sharpness of the object using the parallax compensation. This process will assure focal images are aligned and accuracy is maximized. For a rough orientation, you can also use the engraving of the different distances on the parallax adjustment ring are only estimates and further fine-tuning focusing of the image is usually needed.

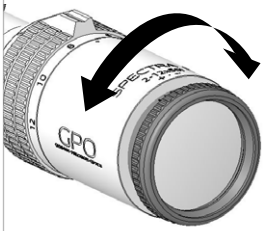


Image 1
Diopter setting

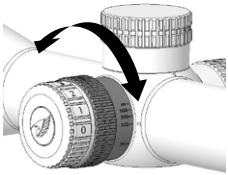


Image 2
Parallax compensation

Magnification adjustment ring

You can seamlessly switch between different magnifications by turning the magnification ring, located on the front of the ocular housing. The engraved numbers on this ring will define the exact magnification that the riflescope is set on.



Image 3 Magnification

Elevation and windage adjustment of your point of impact

Riflescopes have adjustment dials (turrets) that will assist you in changing the point of impact of your bullet, so it can be adjusted to hit directly where your center reticle image is pointing. Elevation turret adjustments (top) and windage turret adjustments (side) allow you to make these adjustments while sighting in your rifle.

The adjustment per click on the elevation and windage turret of all SPECTRA riflescopes is 1cm cm on 100 meter.

Adjustment of the riflescope to the bore of the barrel

Please have your riflescope mounted and adjusted by an authorized dealer or make sure the riflescope is mounted assuring proper mounting procedures. Mounting the riflescope properly will assure shooting and sighting results are positive and will minimize the risk of injury. It is important to make sure proper eye distance to the scope (eye relief) is maintained during mounting and shooting. For detailed instructions on eye relief and proper mounting, see a certified gunsmith or contact a GPO technical specialists.

Factory tips:

- This riflescope is equipped with a mechanically middle centered reticle. This insure that the reticle image will always stay in the middle of the optical image.
- It is important to zero in the riflescope if you purchase it new, if it has been repaired or if other changes such as changes to the bullet drop have been made. It is also import to zero the rifle if the scope has been removed from the ring/base system then put back in place. Removing the scope from the ring or from the rifle will change the zero.

Certain SPECTRA models feature lockable target turrets. When using SPECTRA models with lockable target turrets, you pull the turret upward out of the locking mechanism to adjust the point of impact. Once you have made the adjustment, you push the turret back down. It is then locked once more. For all other models without lockable turrets, lower the cover cap of the turret. You can then adjust the reticle using the adjustment turrets.

Elevation to adjustment

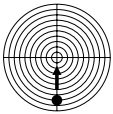
The SPECTRA riflescopes are equipped with turrets that will adjust your bullet point of impact by 1cm at 100 meter with every click. If you want to zero this riflescope, please do the following:

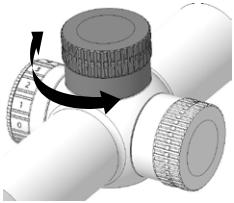
1. At a shooting range fire a group of 3 shots at the center of a target that is 100 meter away. These 3 shots create a bullet group and it is the center of this group that will need to be adjusted to the center of the target. Best is to not make individual turret adjustments after every shot, since individual shot placements can vary. Adjusting the group to center adjusts the average to center, so individual shots outside the average group do not cause you to over/under adjust the scope.

2. Estimate where the center of the group is on the target.

3. Unscrew the cap of the elevation turret. If the center of the group is 10 cm below the center line of the target, then the group needs to be adjusted up 10 cm. 1 click will move the group 1cm at 100 meter, so 10 clicks will move the group 10cm at 100 meter. Adjust the turret in the specified direction you want the bullet group to move.

Repeat 3 shot group procedure to ensure proper group elevation placement on the target.





SPECTRA riflescope turrets have a function where you can set the "0" on the turret dial to exactly align with the scope indicator mark on the scope body. This is not required for sighting in. However, utilizing this function will assure the shooter that the turret dial has not been bumped or moved from the zero established on the rifle range. This way, if you need to make adjustments in the field, you can always return to your exact zero that you established on the rifle range. Follow these four steps:

To use the zero-set turret function, which allows you to reset the zero mark on the turret to the zero-indicator mark on the scope body, proceed as follows:

1. Hold the turret by hand and remove the turret plate
2. Lift the turret from the internal gearing.
3. Rotate the turret to where the zero on the turret is aligned with the zero-indicator mark on the scope body.
4. Press down until turret.
5. Hold the turret and screw in the turret plate tight.

We suggest using thread glue in the turret plate thread to avoid loosen of the turret plate.



Windage side adjustment

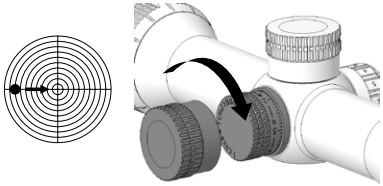
The SPECTRA riflescopes are equipped with turrets that will adjust your bullet point of impact by 1 cm at 100 meter with every click. If you want to zero this riflescope, please do the following:

1. At a shooting range fire a group of 3 shots at the center of a target that is 100 meter away. These 3 shots create a bullet "group" and it is the center of this group that will need to be adjusted to the center of the target. Best is to not make individual turret adjustment after every shot, since individual shot placements can vary. Adjusting the "group" to center adjusts the average to center, so individual shots outside the average group do not cause you to over/under adjust the scope.

2. Estimate where the center of the "group" is on the target.

3. Unscrew the cap of the windage (side) turret. If the center of the group is 10 cm to the left of the center line of the target, then the group needs to be adjusted right (windage) 10 cm. 1 click will move the group 1cm 100 meter, so 10 clicks will move the group 10cm at 100 meter. Adjust the turret in the specified direction you want the bullet group to move.

4. Repeat 3 shot group procedure to ensure proper group windage placement on the target.

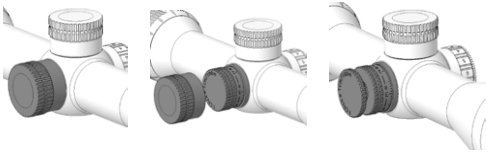


SPECTRA riflescope turrets have a function where you can set the "0" on the turret dial to exactly align with the scope indicator mark on the scope body. This is not required for sighting in. However, utilizing this function will assure the shooter that the turret dial has not been bumped or moved from the zero established on the rifle range. This way, if you need to make adjustments in the field, you can always return to your exact zero that you established on the rifle range. Follow these four steps:

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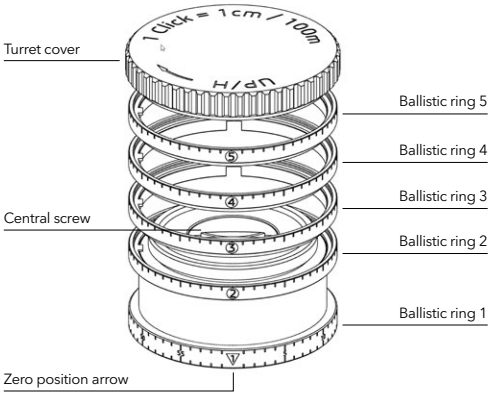
1. Hold the turret by hand and remove the turret plate
2. Lift the turret from the internal gearing.
3. Rotate the turret to where the zero on the turret is aligned with the zero-indicator mark on the scope body.
4. Press down until turret.
5. Hold the turret and screw in the turret plate tight.

We suggest using thread glue in the turret plate thread to avoid loosen of the turret plate.



Installation of the Ballistic Turret GBT (GPO Ballistic Turret)*

Product description



***IMPORTANT:**
The GBT (GPO Ballistic Turret) is only compatible with selected SPECTRA models. More information on gp-optics.com



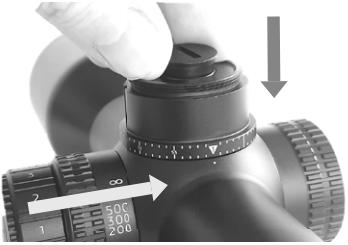
NOTE BEFORE USE

Before changing the standard turret to a GBT (GPO Ballistic Turret), first sight in the riflescope with the standard turret at the desired distance (e.g. 100 m spot). If you are using the riflescope for the first time and from the start with the GBT, mount this first and then sight in the riflescope directly with the GBT at your individual distances, as described in point "ZERO STOP with ballistic turret (GBT)" in the operating instructions.

Assembly

Before you can start installing the GBT, unscrew the protectiv cap of the standard turret. Then unscrew the top cap anticlockwise and pull the standard ring upwards. (This may sit a little firm in its toothing)

a) Now place the base ring of the GBT on the toothing of the turret body. The scale with the number 1 on the lower edge should sit above the index (small marking, zero position) on the scope body.



b) Now screw the small central screw of the GBT into the upper opening of the base ring using a suitable tool. CAUTION: Do not use any metal objects as tools, as they could damage the central screw.



c) You can now place the 4 ballistic rings 2-5 on the base ring of the GBT.



Make sure to insert the sheet metal tongue on the inner diameter of the ballistic rings into the corresponding groove on the base ring.



The ballistic rings 2-5 can then be rotated on the base ring to set them to the desired distances.



Setting the different distances

Once the GBT has been successfully mounted, you can now make your individual settings. Please check that the GBT is firmly mounted on the riflescope and is in the locked (depressed) position.
To adjust the ballistic rings, you need to know how many clicks are required to correct for the respective distance:

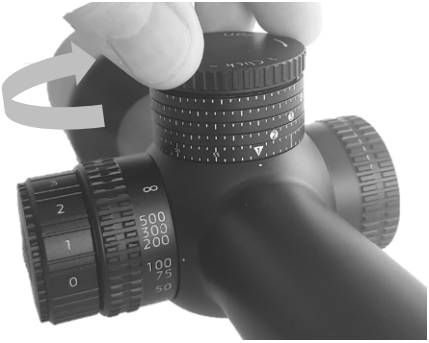
Ballistic ring	1	2	3	4	5
Clicks	0				

Depending on your personal preference, this information can be found, for example, on the packaging of your ammunition, via commercially available ballistic calculators or ballistic tables created by shooting at the respective distances yourself.
It is important that the correction values for the distances are available in clicks (1cm/100m). If the correction value is available as a bullet drop in the form "cm on the target", divide this cm value by the target distance in meters and multiply the result by 100 to obtain the correction value in clicks.



Now turn the rings one after the other, from the lowest (2) to the highest ring (5), to the desired positions. The base ring is labeled with the click values and serves as a reference. When turning the respective ring, take care not to accidentally turn the ring below it.

d) Finally, screw on the cover of the GBT. Make absolutely sure that you do not inadvertently turn the ballistic rings.



When the cover is screwed on tightly, the ballistic rings are fixed to the base ring and secured against turning.



Disassembly

The GBT is disassembled in the reverse order to the assembly. We recommend that you first set the GBT to the sight in distance (base ring 1 to the index point on the riflescope). Loosen the cover with twist lock, loosen the central screw and lift off the base ring 1 with all ballistic rings 2-5 on it. Then replace the standard elevation turret with the 0 on the index point of the riflescope and secure it with the central screw.

Setting the ZERO STOP

ZERO STOP on the standard-turret

Some selected SPECTRA models have an adjustable zero stop.
This allows you to always return to the zero position by means of a stop.
You can adjust this zero stop as required as follows:

1. unscrew the protection cap of the standard-turret.
Set the stadard-turret to the position to which you want to adjust the zero stop.



2. then unscrew the turret cap and lift off the whole trurret.



3. loosen the 3 screws on the Zero Stop ring using an Allen key. Turn this ring in the direction of the engraved white arrow until you reach the stop.





4. hold the ring firmly and tighten the 3 screws again. Then set the standard-turret to your preferred zero position at the index marking, secure it with the turret cap and screw the protection cap of the turretr back on.



ZERO STOP with ballistic turret (GBT)

Some selected SPECTRA models have a ballistic turret with an adjustable zero stop. This allows you to always return to the zero position by means of a stop.

You can adjust this zero stop as required as follows:

1. set the ballistic turret to the position to which you want to adjust the zero stop.



2. unscrew the turret cover of the GBT, loosen the central screw and lift off the entire ballistic turret.



3. loosen the 3 screws on the zero-stop ring using an Allen key. Turn this ring in the direction of the engraved white arrow until you reach the stop.



4. hold the ring firmly and fix the 3 screws again to set the zero stop.
Caution: Do not overtighten the screws!
Then set the ballistic turret to your preferred zero position, secure it with the central screw and screw the turret cover back on.





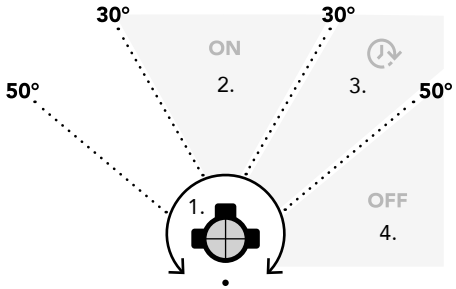
Setting the automatic lighting switch-off function iControl™

This product is equipped with the new iControl™ automatic switch-off function with built-in angle sensor for efficient energy management and particularly long battery life.

Tilting your riflescope horizontally or vertically switches the illumination OFF depending on the angle.

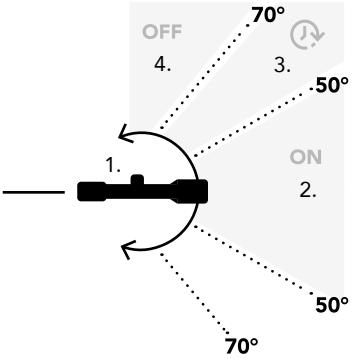
When the rifle is returned to the upright position, the illuminated dot immediately switches back ON at the previously set brightness level.

Side tilt



1. Switch on the illuminated dot at your preferred brightness level.
2. As long as the riflescope is at an angle of 0° - 30°, the illuminated dot remains on.
3. If you tilt the riflescope from the vertical >30° - <50° to the left or right, the illuminated dot switches off after 3 min.
4. If you tilt the riflescope more than 50° (e.g. when placed on a high seat), the illumination switches off immediately.

Inclination



1. Switch on the illumination at your preferred brightness level.
2. As long as the riflescope is at an angle of 0° - 50°, the illumination remains on.
3. If you tilt the riflescope from the horizontal >50° - <70° upwards or downwards, the illumination switches off after 3 minutes.
4. If you tilt the riflescope over 70° (e.g. when placed on a high seat), the illumination switches off immediately.

Deactivate/activate angle sensor

You can also deactivate the angle function if required:

- Switch off the illumination (0 position)
- Turn the scope/rifle 180° upside down (see Fig. 1)
- Switch the illumination on to at least level 6
- When deactivating, the illumination flashes 3 times for confirmation

Repeat the same procedure to switch the angle function on again

- When activating, the illumination flashes 5 times for confirmation

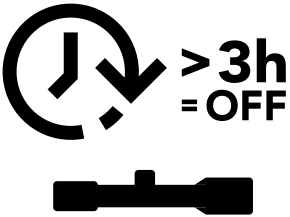
Fig. 1



The switch-off function after 3 hours of inactivity remains active.

Timer

Reactivation after 3 hours



If you forget to switch off the illumination, it switches off automatically after 3 hours without operation.

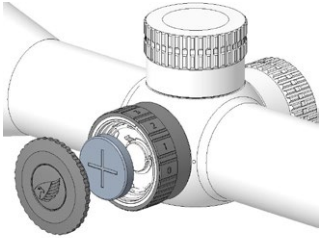
To switch the illumination back on, return to position 0 for 1 second and then set the desired brightness (position 2-8).

If you do not use the device for a longer period of time, we recommend switching it off completely at position 0.

Change of batteries

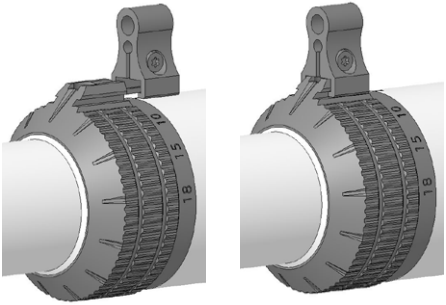
Unscrew the battery cap. Replace the battery with a new battery. Make sure you can see the + pole of the battery after putting it in the battery slot. Screw the battery cap on the illumination button.

The batteries for the illumination are standard CR2032 batteries. Please dispose of the used batteries in an environmentally appropriate way.



Throw lever

Certain models* feature an optional throw lever. It can be attached or removed as required. To attach the throw lever, slide it into the corresponding slot at the magnification changer bar. Then clamp the throw lever using the Allen key to fix it. To remove it, please proceed in reverse order.



***ATTENTION:**
If your riflescope does not have a Throw Lever, it cannot be retrofitted.

Care, cleaning and maintenance

You can clean the optics of your product with the optical micro-fiber cleaning cloth provided with your product, or by using other lens cleaning equipment solely intended for optical cleaning purposes. Be sure to keep the optical surfaces clean and immediately remove any dirt or oil debris caused by grease (finger prints), oil or water spots to guarantee consistent optical quality.
To clean the exterior lenses of your product, be sure to first remove any granular dirt or debris that may cause scratching during the cleaning process. Be aware that rough granular dirt particles must be removed with either an air bellows or a clean hair brush. Otherwise, this may lead to damage of the optical coating or scratches on your lens.
Once large debris is removed, slightly breath onto the optical surfaces to create a damp fog, then use the dry optical cleaning micro-fiber cloth provided to clean the lens surfaces.
All other outside mechanical parts can be cleaned with a normal soft, clean and slightly damp cloth.
This micro-fiber cloth must remain free of any physical granular debris.

Proper storage

After using the riflescope, it is recommended to store it dry, in a well-ventilated room, at normal to low humidity levels, in normal room temperatures.

Spare parts

If you need spare parts or accessories for your riflescope, please contact an authorized dealer or GPO GmbH &Co KG Inning am Ammersee. In the USA, please contact GPO, USA at info@gpo-usa.com. For all other countries, please contact GPO GmbH at info@gp-optics.com

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V3_2025_GBT