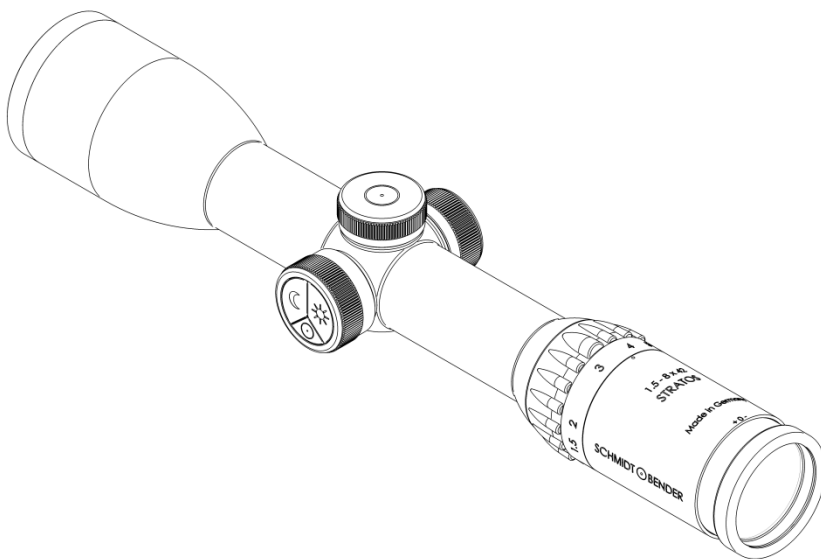


SCHMIDT BENDER



1.5-8x42 Stratos

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1. Scope description

1.1 Introduction

The Schmidt & Bender Stratos hunting scopes are designed to meet the unique challenges of high precision shooting. Their quality and function make it possible to achieve exceptional shooting results as well as to fulfill the critical and demanding needs of official, law enforcement and tactical applications. Strict observation of the following operating instructions is prerequisite for successful long-term use.

1.2 Safety instructions

Never look into the sun or into laser light with the scope. This may cause serious eye injuries. Do not tamper with the scope. Any repairs beyond the maintenance described in the maintenance manual should only be performed by Schmidt & Bender or by other specialists authorized by Schmidt & Bender. Protect the scope against shocks beyond normal use.

Avoid unnecessary long exposure of the scope to direct sunlight; intense and excessive sun radiation will cause extremely high temperatures inside the tube which may be detrimental to the scope.

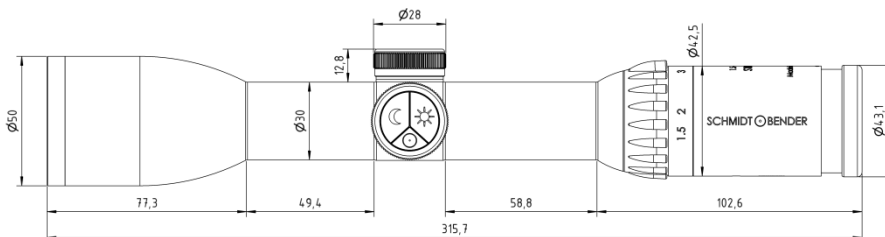
The scope must be properly mounted to the firearm by a qualified specialist. Perfect mounting is an essential requirement for maximum accuracy and efficient functioning of the firearm and the scope. Be sure to assume the proper firing position and keep a correct eye relief in order to obtain an optimal full field of view and to avoid any injuries due to the recoil of the weapon.

2. Technical data

2.1 General data

- Field of view - 23,9 – 4,6 (m/100m)
- Exit pupil - 12,0 – 5,25 (mm)
- Eye relief - 90 (mm)
- Twilight factor - 5,2 – 18,3
- Transmission - 90 (%)
- Diopter adjustment - +2 to -3 (dptr)
- Parallax - fix 100 (m)
- Reticle focal plane - 1

2.2 Dimensions



Illustr. 1: Dimensions in mm

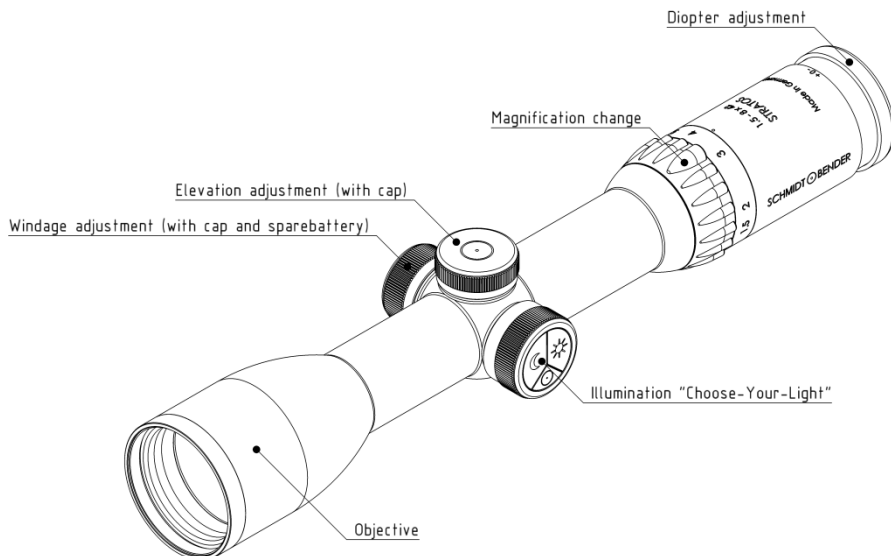
3. Accessories / Scope of supply

The following accessories are delivered with scope and can be reordered at a distributor or our service.

Protective Bikini Caps
Registration card
Reply card

4. Operating instructions

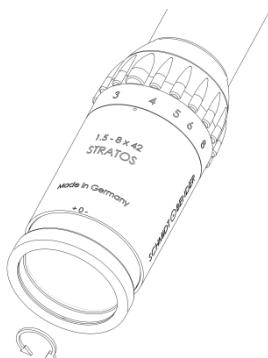
Your new Schmidt & Bender riflescope consists of different functional parts and adjustments. (See Illustr. 2.)



Illustr. 2: Scope parts and control

4.1 Adjusting the image focus with the diopter adjustment of the eyepiece

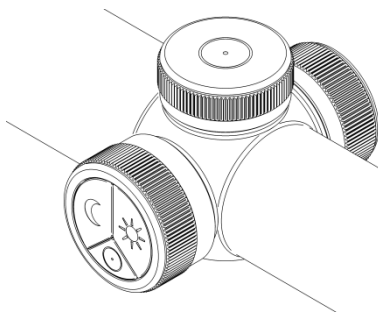
The eyepiece provides the adjustment of the reticle focus to the individual eye diopter. Set the scope to the highest magnification. Rotate the eyepiece counterclockwise until it stops. Rotate the eyepiece clockwise until you see a sharp image of the reticle (see Illustr. 3).



Illustr. 3: Diopter adjustment

4.2 The Choose-Your-Light-Illumination

All Stratos riflescopes are equipped with the Choose-Your-Light Illumination (Illustr. 4) which provides a large quantity of different functions and which can be programmed to your individual needs at your local gunsmith or at the Schmidt & Bender service or even by yourself at home by purchasing the optionally available USB adapter.



Illustr. 4: The Choose-Your-Light-Illumination

An overview on the various functions, possible configurations as well as on the standard configurations is given by the following tabular.

Function	Options	Standard
Number of illumination settings (day)	12/24/48/continuous	12
Number of illumination settings (night)	12/24/48/continuous	12
Automatic continuous brightness adjustment	on / off	on
Brightest setting / Darkest setting	Brightness selectable	Daylight usable / Nightlight usable
Brightness curve	Selectable on 12/24/48 settings	logarithmic
Cant sensor vertical	on (light/strong) / off	On / ~ 35°-45°
Cant sensor horizontal	on (light/strong) / off	On / ~ 35°-45°
Automatic switch-off:	Time selectable	6h
Low battery indicator deactivation	On / Off	Off
Behavior on switch-on	3 different behaviors selectable	Behavior 3 (s. p.10)

All Stratos riflescopes have the ultra bright FlashDot technology which provides a perfect circular shaped red dot projected into the center of the reticle. By switching off this dot disappears completely to provide a clear and undisturbed view on the target.

In your scope reticle and FlashDot are located in the first focal plane.

4.2.1 Number of illumination settings

The illumination unit comprises a day-mode and a night mode. Optionally, it is possible to program the illumination unit such that only one mode is used.

Each of these modes provides a selectable number of illumination settings.

It can be chosen from 12, 24, or 48 settings or a basically continuous brightness adjustment, which has 96 settings lying indistinguishable close to each other such that the adjustment seems to be continuous for the human eye.

The standard setup has 12 illumination settings for the day-mode and 12 for the night-mode.

4.2.2 Sequential brightness adjustment

The scopes offer an option to adjust the brightness sequentially when holding on one of the buttons. This option is activated on delivery.

4.2.3 Brightest and darkest setting and brightness curve

The brightest and darkest setting in day- and night-mode can be chosen freely within the physically possible parameters. The brightness curve from darkest to brightest setting can also be chosen freely for 12, 24, and 48 settings.

In case that 96 settings, equally to continuous adjustment, are chosen, the brightness curve follows a logarithmic scale.

On delivery, the brightness adjustment range in day-mode and night-mode is defined such that all hunting situations during daytime or nighttime are covered. The brightness curve follows a logarithmic scale.

4.2.4 Cant sensors

This riflescope provides a horizontal and a vertical cant sensor, which allows automatic switch-off when laying or putting the weapon aside. When leveling the gun, the illumination is reactivated immediately for a precise instantaneous shot.

Both sensors can be activated or deactivated separately. Additionally, the sensor can be configured to react on a steep or low angle.

On delivery, both sensors are activated and configured to react on an angle of approximately 35°-45°.

4.2.5 Automatic switch off

The illumination has an automatic switch-off function for power saving. The illumination switches off after a selectable period of time without pressing any button.

On delivery this time is set to 6 hours.

4.2.6 Behavior on activation and reactivation

There are 3 different selectable scenarios for the behavior on activation and reactivation:

1. On activation or reactivation the illumination returns to the lastly used brightness setting in the particular mode.
2. On activation or reactivation the illumination goes to one concrete but selectable setting in the particular mode.
3. On activation or reactivation the illumination returns for a selectable time period to the lastly used brightness setting and returns after expiration of this time period to a certain selectable setting in each mode.

On delivery the third option is chosen.

For 12 hours the illumination returns to the lastly used setting in each mode, and after 12 hours it returns to the medium setting in each mode.

4.2.7 Deactivation of the low-battery warning

If the remaining battery power decreases below a certain level, the illumination starts to blink.

This blinking can be deactivated by switching off the illumination and reactivation within 2 seconds. Afterwards, the illumination can be used until the battery is empty.

Of course, on decreasing battery power, the illumination brightness will decrease accordingly.

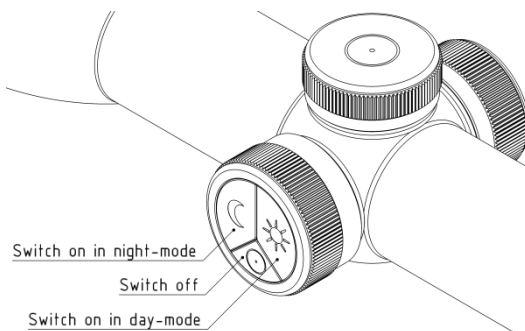
4.3 Illumination control

The Choose-Your-Light-Illumination has three buttons with engraved symbols in terms of a sun, a moon and a Schmidt & Bender logo.

These buttons provide different functions as explained in the following.

4.3.1 Switching the illumination on and off (standard)

- To activate the illumination in its day-mode, press the button with the sun.
- To activate the illumination in its night-mode, press the button with the moon.
- To switch off the illumination, press the button with the Schmidt & Bender logo for 3 seconds.
- When reactivating within 12 hours after the last use, the illumination returns into the lastly chosen setting in each mode.
- After 6 hours the illumination switches off automatically.
- To change from day-mode to night-mode or from night-mode to day-mode the illumination must be switched off and reactivated in the respective mode.

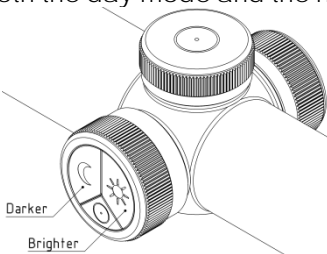


Illustr. 5: Functions of the buttons for switch-on and switch-off

4.3.2 Adjusting the brightness

- To increase the brightness of the flash dot, press the button with the sun. Each keystroke increases the brightness by one level. When holding the button, the brightness can be increased sequentially.
- To decrease the brightness of the flash dot, press the button with the sun. Each keystroke decreases the brightness by one level. When holding the button, the brightness can be decreased sequentially.

This is valid for both the day-mode and the night-mode.

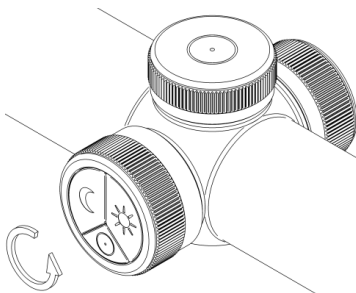


Illustr. 6: Buttons for brightness control

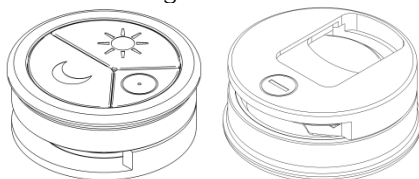
4.4 Battery change

To change the battery inner the electronic module must be removed by turning the outer flange counter-clockwise until no resistance can be felt anymore. (Illustr. 7 and Illustr. 8)

You can easily take out the module afterwards.

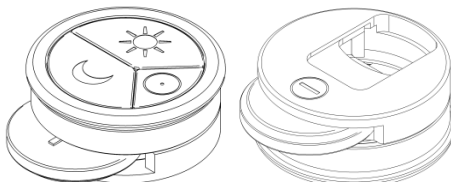


Illustr. 7: Removing the electronic module



Illustr. 8: Removed electronic module

Now, push the battery with your thumb into the direction of the “-”-sign on the back of the module, such that it sticks out of the slot and can be pulled out. (Illustr. 9) (In the windage cap of the scope you can find a spare CR 2032 battery which can be used as a replacement.)

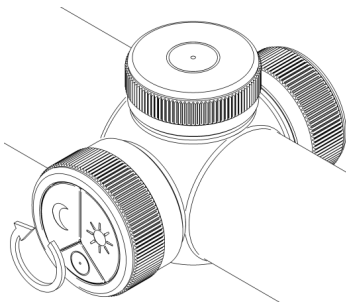


Illustr. 9: Battery sticking out of the slot

Please discard the used battery in an ecologically compatible way!

Push the new battery into the slot of the electronic module. Please watch for the correct orientation of the battery: The positive pole of the battery (usually signed with a „+“) should point towards the buttons of the module.

Then place the electronic module into the guiding flange and turn clockwise until the block. (Illustr. 10)



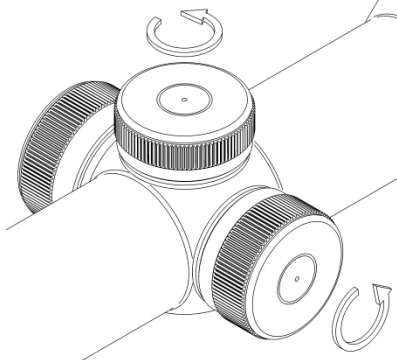
Illustr. 10 Inserting the electronic module

Please do only change the battery in a dry environment and use only batteries of type CR 2032/3V.

5. Preliminary adjusting and fine adjusting when sighting in

5.1 Using the Posicon turrets

For use of the turrets, please remove the caps from the windage and elevation turret by unscrewing counter-clockwise. (Illustr. 11)



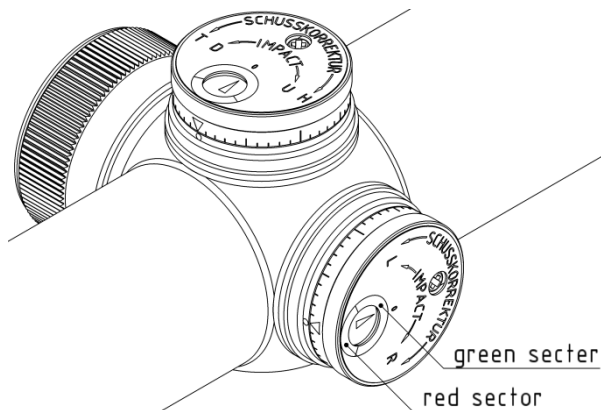
Illustr. 11: Removing the caps from elevation and windage turret

Your new riflescope is equipped with the Posicon-windage and elevation adjustment. On delivery, the black arrow in the white screen of the turret indicator points onto the center, symbolized by an - o -.

This ensures that in both left-to-right and up-to-down direction the maximal amount of adjustment range is available.

The arrow of the so called "Posicon-Clock" provides information on the position of the reticle at any time. (Illustr. 12)

The green sector indicates the square adjustment range in which one windage and elevation adjustment do not interfere with each other. The red sector indicates the so called buffer, which provides an additional amount of adjustment in either direction, but in which one adjustment direction might interfere with the other.



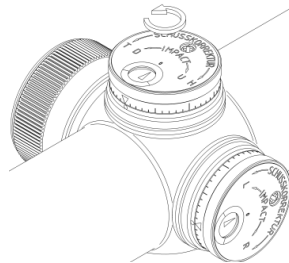
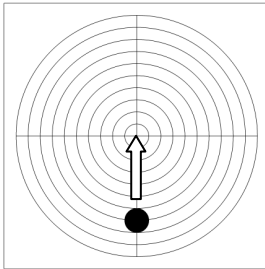
Illustr. 12: Posicon Turrets with sectors and centered arrow

When sighting in the scope for the first time, or re-sighting the scope due to service or repair, a test shoot for zeroing the scope must be performed on a 100m distance.

The centering of the target pattern and thus zeroing of the scope is then performed according to paragraph 5.2 and 5.3.

5.2 Elevation adjustment

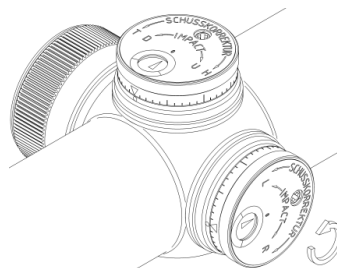
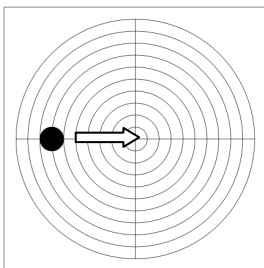
The point of impact is moved by 1cm on 100m on every click. A too low point of impact is corrected by rotating the elevation turret clockwise into the direction indicated by "H" or "U", a too high point of impact by rotating the elevation turret counter-clockwise into the direction indicated by "T" or "D" (see Illustr. 13).



Illustr. 13: Elevation adjustment

5.3 Windage adjustment

The point of impact is moved by 1cm on 100m on every click. A too far left point of impact is corrected by rotating the elevation turret clockwise into the direction indicated by "R", a too high point of impact by rotating the elevation turret counter-clockwise into the direction indicated by "L" (see Illustr. 13).

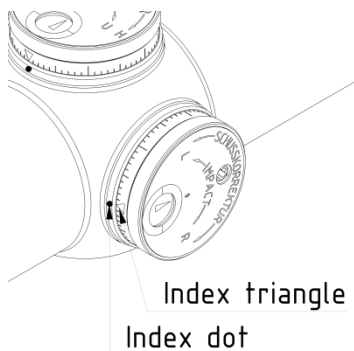


Illustr. 14: Elevation adjustment

5.4 Marking the zero position

All obtained reticle positions may be marked by the aluminum ring below the knurl.

To do so, please unscrew the cross-slot screw in the Posicon screen and position and turn the aluminum ring until the index dot and the index triangle match. Then screw the cross-slot screw tightly. (Illustr. 15)



Illustr. 15: Index ring and index triangle

6. Care and maintenance

Schmidt & Bender Stratos line scopes do not require any special maintenance. All metal parts have a hard anodized surface that is extremely scratch-resistant and easy to care for.

For cleaning outer surfaces, use a clean and, if necessary, a slightly damp cloth.

For cleaning the optics use the included Schmidt & Bender cleaning kit.

Before wiping the optic's surfaces, use a dry brush to remove coarse dirt or dust particles. Slight impurities may then be wiped off using an optic's cleaning cloth.

Breathe onto the optic's surfaces before cleaning them, this helps with the cleaning process. Excessive dirt may be removed using the cleaning liquid included in the cleaning kit.

Avoid dry rubbing on the outside optical surfaces, this may harm the precious coatings.

7. Storage temperature

The approved temperature range for the storage of the scope is from -55°C to 70°C.

8. Warranty certificate

We hereby certify that our Quality Management System has been approved by Unternehmensgruppe TUV Rheinland Berlin Brandenburg to the following Quality Management Standard: The TUV Cert Certification Body of TUV Anlagentechnik GmbH (Unternehmensgruppe TUV Rheinland Berlin Brandenburg) certifies in accordance with TUV Cert procedures that Schmidt & Bender GmbH & Co. KG, Am Grossacker 42, D- 35444 Biebertal has established and applies a quality management system for the design, production sales and service of fine mechanical optical instruments. Main product telescopic sights. Proof has been furnished that the requirements according to ISO 9001 – # Registration No. 01 100 67280 - are fulfilled. All parts have been thoroughly inspected in accordance with the aforementioned Quality Management System and correspond to the requirements of the specifications, drawings, test procedures and standards in all respects.

Guarantee clause:

- Guarantee period of 10 years
- Replacement parts are available for at least 30 years

Contact:

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Subject to changes, Date 10.04.2014, Revision 01