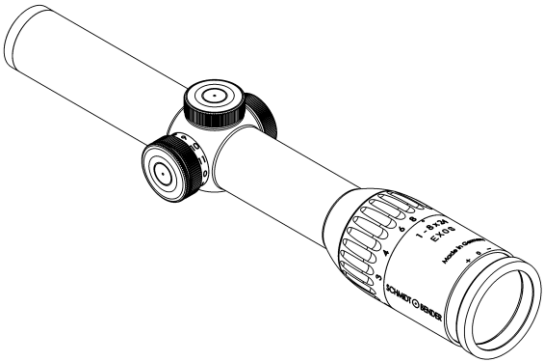
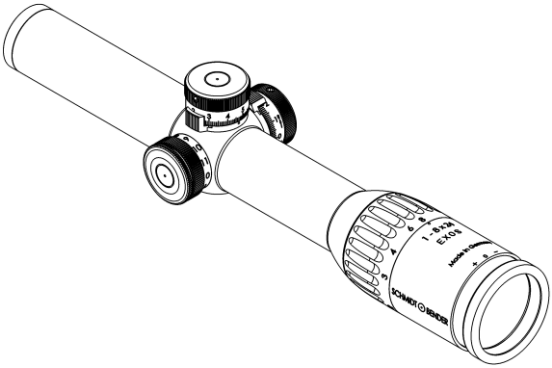
SCHMIDT ⊙ BENDER

1-8x24
Exos





Schmidt & Bender GmbH & Co. KG • Am Grossacker 42 • D-35444 Biebertal
Tel. +49 (0) 64 09-81 15-0 • Fax +49 (0) 64 09-81 15-11
info@schmidt-bender.de • www.schmidt-bender.de

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1. Scope description

1.1 Introduction

The Schmidt & Bender Exos hunting scopes are designed to meet the unique challenges of high precision shooting. You are owning a product of highest quality, optimized for your special applications. Strict observation of the following operating instructions is prerequisite for successful long-term use.

1.2 Safety instructions

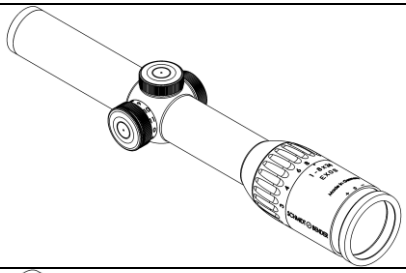
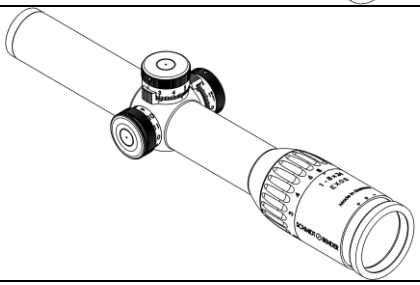
Never look into the sun or into laser light with the scope. This may cause serious eye injuries. Do not tamper with the scope. Any repairs beyond the maintenance described in the maintenance manual should only be performed by Schmidt & Bender or by other specialists authorized by Schmidt & Bender. Protect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

This manual uses figures of version "BDC" to demonstrate the functions of the scope. <u>The manual can be transferred on the Posicon-configuration.</u>

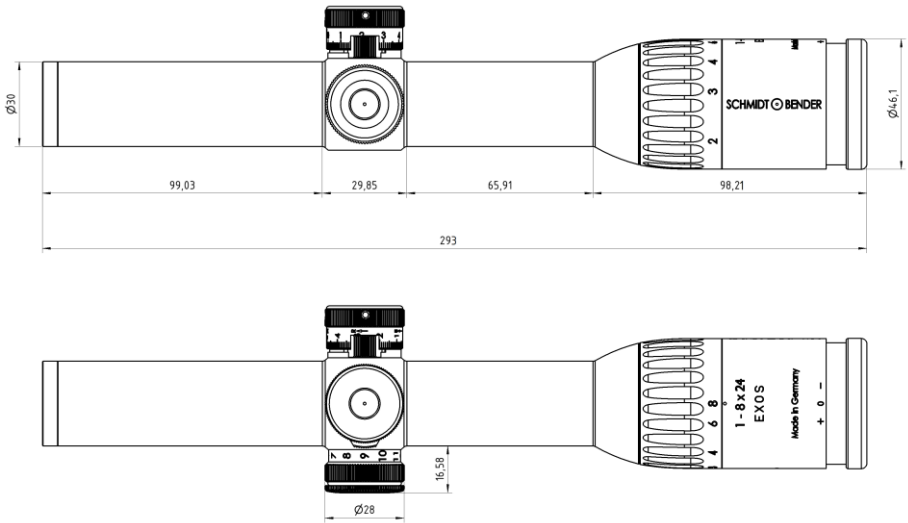
	<u>Configuration1:</u> Elevation: Posicon Windage: Posicon
	<u>Configuration 2:</u> Elevation: BDC (Bullet Drop Compensation) Windage: BDC (Bullet Drop Compensation)

3. Technical data

3.1 General data

• Field of view	-	35,3 – 4,9	(m/100m)
• Exit pupil	-	9,6 – 3	(mm)
• Exit pupil CC-mode		9,8	
• Eye relief	-	90	(mm)
• Twilight factor	-	4,9 – 13,9	
• Transmission	-	90	(%)
• Diopter adjustment	-	+2 to -3	(dpt)
• Parallax	-	fix 100	(m)
• Reticle focal plane	-	2nd	

3.2 Dimensions



Illustr. 1: Dimensions in mm

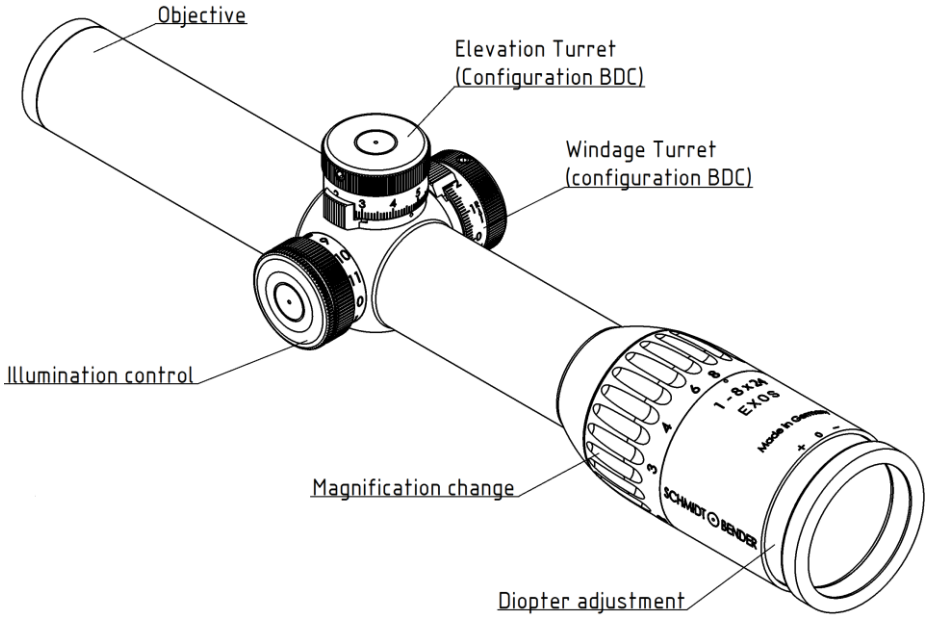
4. Accessories / Scope of supply

The following accessories are supplied along with the riflescope. These parts can be ordered from a specialist dealer or our service if necessary.
Further accessories can be found on our homepage.

Protective Bikini Caps
2mm Allen key
Registration card
Reply card

5. Operating instructions

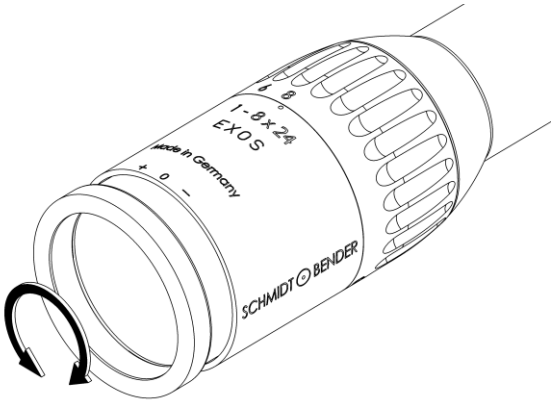
Your new Schmidt & Bender riflescope consists of different functional parts and adjustments (See Illustr. 2).



Illustr. 2: Scope parts and control

5.1 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).

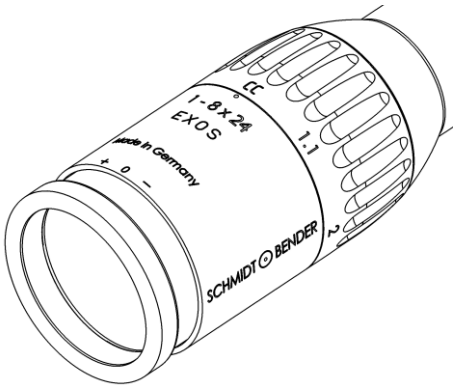


Illustr. 3: Diopter adjustment

5.2 Using the magnification change and the CC-Mode

By turning the magnification change ring, the magnification can be changed from 1 to 8. To do so, turn the magnification change until the engraved magnification value is in line with the engraved index dot. The 1x magnification is available in the CC-Mode. To switch into the CC-Mode, turn the magnification change ring until the letters „CC“ are in line with the engraved index dot (Illustr. 4). In the „CC“-Setting, the scope is parallax free on approximately 7m to 20m distance. To leave the „CC“-Mode, turn the magnification change ring counter-clockwise until you feel a slight „click“.

This indicates that you are now on 1.1x magnification. The area on the magnification change ring inbetween „CC“ and „1.1“ is not suitable for shooting, since it is optically uncorrected.

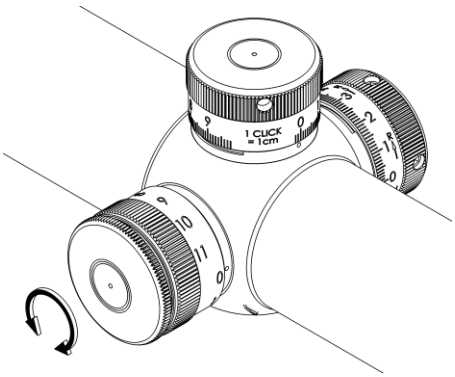


Illustr. 4: CC-Mode

5.3 Illumination Control

Your new Exos riflescope is equipped with the Flash Dot technology which provides a projected bright red dot along with a reticle in the second focal plane.

For optimal target acquisition on dark background, set the intensity of the illuminated dot to the respective light conditions.



Illustr. 5: Illumination control

First, set the intensity of the illuminated dot to the respective light conditions. To do this the illumination control may be turned from -0- toward position -11- until a setting is achieved where the red dot is just bright enough to be picked up by the eye without glaring. If possible, this adjustment should be performed under quiet conditions prior to the actual shooting (see Illustr. 5).

If the illumination is not switched off by the shooter after use, illumination control electronics automatically switch off the illumination after 6 hours.

If the illumination starts blinking, the battery is low and should be replaced.

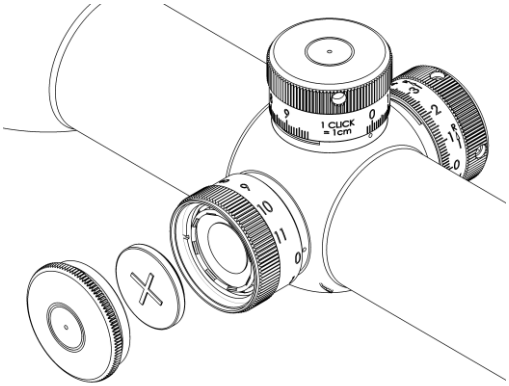
5.4 Changing the battery

To replace the battery screw off the battery cap and remove the old battery.

Please discard the used battery in an ecologically compatible way!

Place the new battery (coin cell CR 2032/3V) with the „+" facing up into the battery compartment. Do only change the battery in a dry environment.

Battery service life is at least 100 hours at the highest intensity (see Illustr. 6).

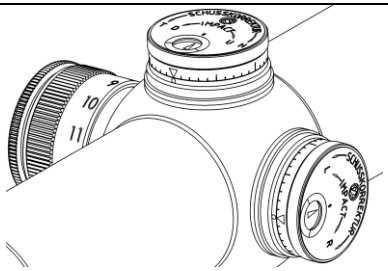
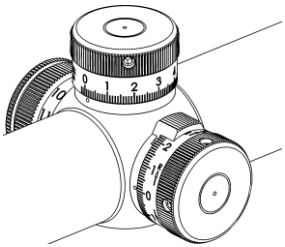


Illustr. 6: Battery replacement

6. Preliminary adjusting and fine adjusting when sighting in

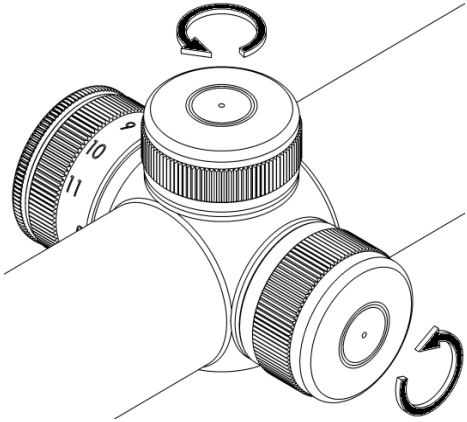
6.1 Configurations and features of the elevation- and windage-turret

The Exos is available in various versions. Please refer to the table below which version correspondents with your scope and read into the correspondenting position what opportunities the turrets are able to provide.

Turret configuration 1	Turret configuration 2
Elevation / Windage: Posicon	Elevation / Windage: Bullet Drop Compensation (BDC)
	
➔ page 15	➔ page 19

6.2 Using the Posicon turrets

For use of the turrets, please remove the caps from the windage and elevation turret by unscrewing counter-clockwise (Illustr. 7).



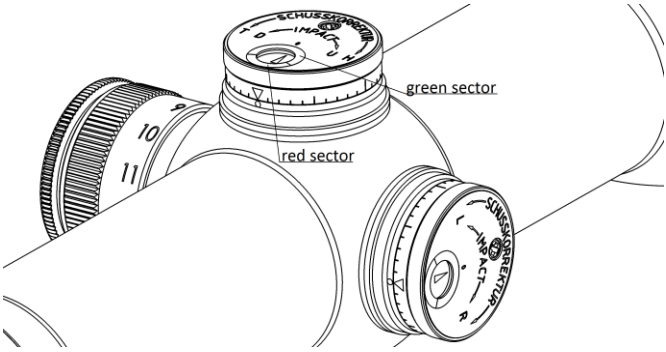
Illustr. 7: Removing the caps from elevation and windage turret

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. 8)

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.

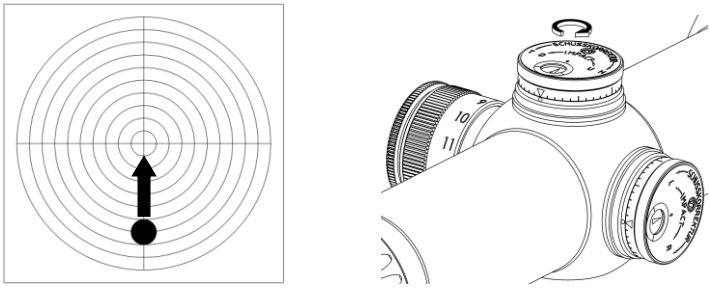


Illustr. 8: Posicon Turrets with sectors and centered arrow

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 6.2.1 and 6.2.2.

6.2.1 Elevation adjustment (Posicon)

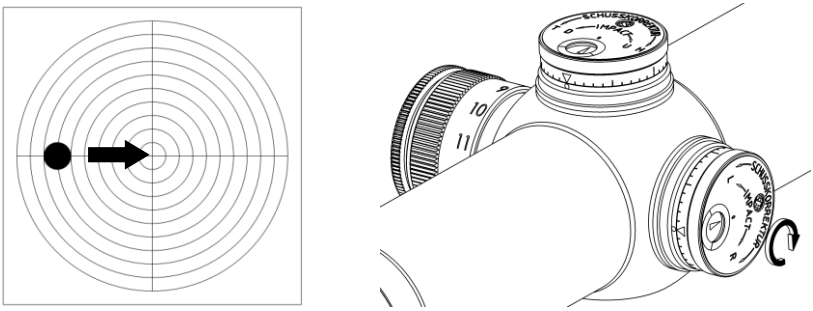
The point of impact is moved by 1cm on 100m on every click. A too low point of impact is corrected by rotating the elevation turret clockwise into the direction indicated by "H" or "U" (see Illustr. 9), a too high point of impact by rotating the elevation turret counter-clockwise into the direction indicated by "T" or "D".



Illustr. 9: Elevation adjustment Posicon

6.2.2 Windage adjustment (Posicon)

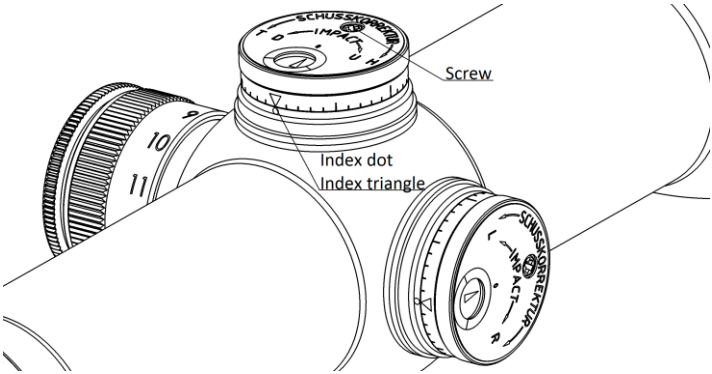
The point of impact is moved by 1cm on 100m on every click. A too far left point of impact is corrected by rotating the elevation turret clockwise into the direction indicated by "R" (Illustr. 10), a too far right point of impact by rotating the elevation turret counter-clockwise into the direction indicated by "L".



Illustr. 10: Windage adjustment Posicon

6.2.3 Marking the zero position (Posicon)

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. 11)

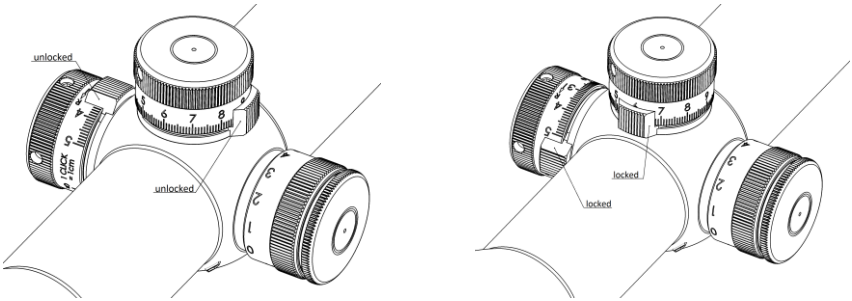


Illustr. 11: Index ring and index triangle

6.3 Using the Bullet Drop Compensation (BDC)

In order to avoid the unintentional adjustment of the elevation or the windage turret, both turrets provide a locking mechanism.

To lock each of the turrets, its circumferential ring has to be turned 90° clockwise (Illustr. 12). A little slider serves as an aid which is located left hand side (elevation) or on top of the turret (windage).



Illustr. 12: Locking and unlocking the turrets (unlocked and locked)

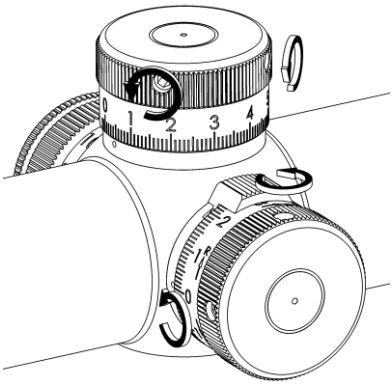
6.3.1 Marking the zero position

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. Therefore, ensure that the parallax is set to the correct value of 100m and that both elevation and windage turrets are set to "0".

The differences arising from the shot image towards the target, must now be corrected according to the procedure described in paragraph 6.3.2 and 6.3.3.

Please verify the centered shot pattern by again firing a group of shots at the target. If necessary repeat the correction procedure.

After sighting in, the scope must be zeroed. Therefore, turn the turrets to the unlocked position and loosen the screws on the turrets with an Allen key by turning it counter-clockwise. Please do not remove the screws completely (Illustr. 13).

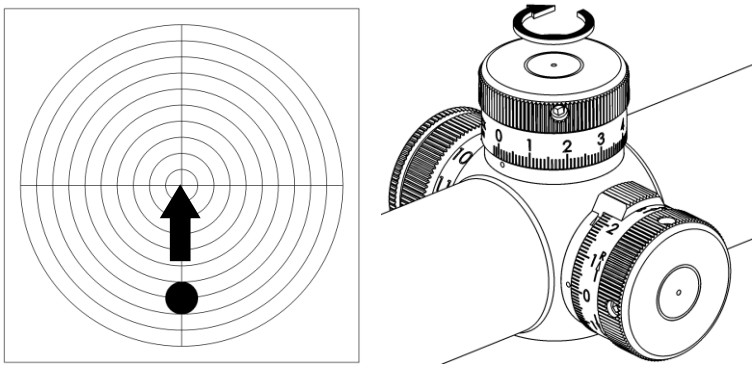


Illustr. 13: Zeroing the turrets

Now turn the turret caps back to zero such that the zero is in line with the engraved index dot. Then fix the screws with the Allen key.

6.3.2 Elevation adjustment (BDC)

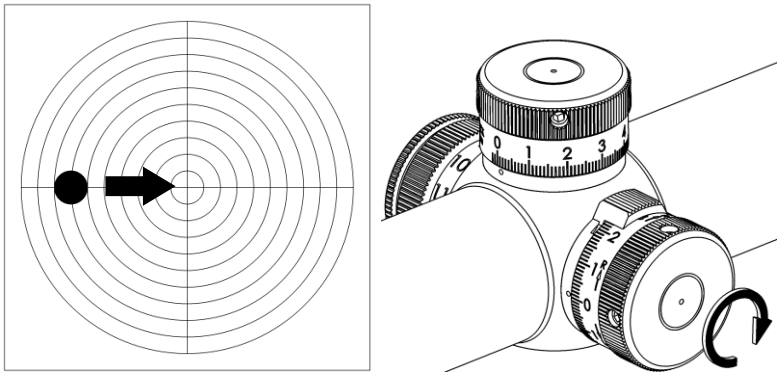
The point of impact is moved by 1cm on 100m on every click. A too low point of impact is corrected by rotating the elevation turret clockwise (see Illustr. 14), a too high point of impact by rotating the elevation turret counter-clockwise.



Illustr. 14: Elevation adjustment BDC

6.3.3 Windage adjustment (BDC)

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" (see Illustr. 15), a too far right point of impact is corrected by rotating the turret counter-clockwise into the direction indicated by "L".



Illustr. 15: Windage adjustment BDC

7. Maintenance

7.1 Care and maintenance

The Schmidt & Bender Exos scope does 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.

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 a microfibre cloth.

Breathe onto the optic's surfaces before cleaning them, this helps with the cleaning process. Excessive dirt may be removed using lukewarm water.
Avoid dry rubbing on the outside optical surfaces, this may harm the precious coatings.

7.2 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 afore-mentioned 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:
Schmidt & Bender GmbH & Co. KG • Am Grossacker 42 • D-35444 Biebertal • Germany
Tel. +49 (0) 64 09-81 15-0 • Fax +49 (0) 64 09-81 15-11
info@schmidt-bender.de • www.schmidt-bender.de

Schmidt & Bender Inc. • 204 McGhee Rd• Winchester, VA 22603• U.S.A.
• Phone +1(540)4508132• info@schmidt-bender-us.com

Schmidt & Bender GmbH & Co. KG • Am Grossacker 42 • D-35444 Biebertal
Tel. +49 (0) 64 09-81 15-0 • Fax +49 (0) 64 09-81 15-11
info@schmidt-bender.de • www.schmidt-bender.de
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