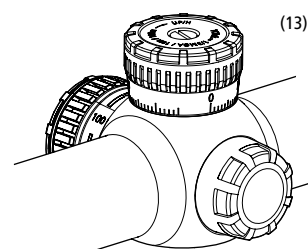
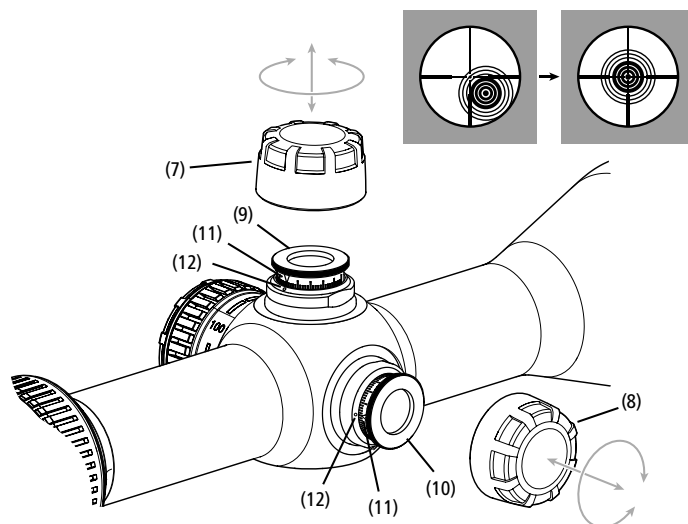
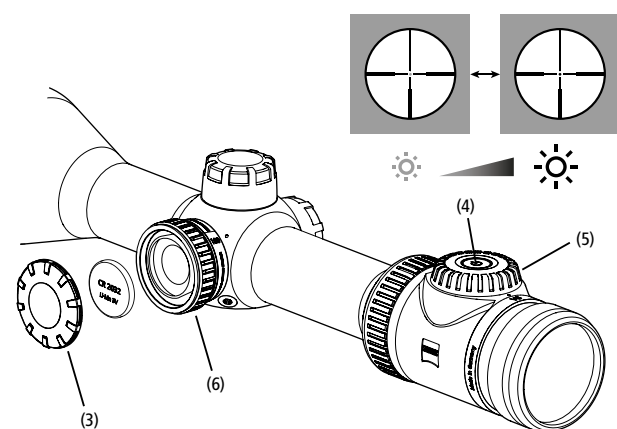
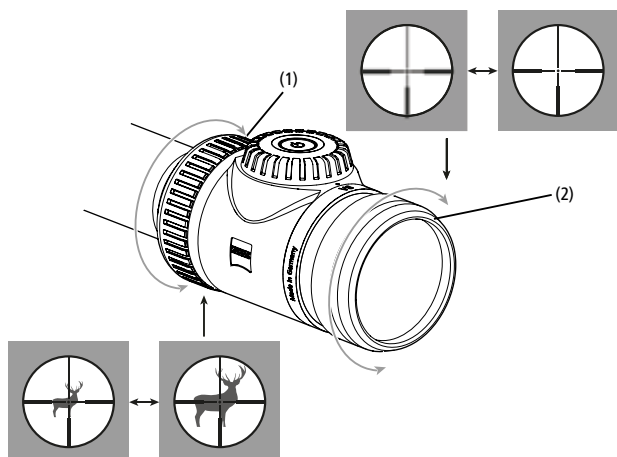


# **ZEISS V8**

## Instructions for use





**WARNING!**  
Please note the enclosed safety instructions and regulatory information, they can also be found under:  
[www.zeiss.com/cop/safety](http://www.zeiss.com/cop/safety)

#### Instructions for use

ZEISS products are famous for outstanding optical performance, precision engineering and a long service life.  
Please observe the following instructions for use to obtain the best results from your riflescope and to ensure it remains as your preferred gear for many years to come.

#### Scope of supply

ZEISS V8 riflescopes with reticle illumination.

Product	Order no.	Lens thread	Scope of supply
V8 1.1-8x24 M	522100	M 28x0.5	Riflescope Protective lens cap Li-batt. 3 V CR 2032 Optics cleaning cloth Quick Guide Safety Instructions and Regulatory Information
V8 1.1-8x24	5522101	M 28x0.5	
V8 1.8-14x50 M	522110	M 54x0.75	
V8 1.8-14x50	522111	M 54x0.75	
V8 2.8-20x56 M	522130	M 60x0.75	
V8 2.8-20x56	522131	M 60x0.75	
V8 4.8-35x60 M	522140	M 62x0.75	
V8 4.8-35x60	522141	M 62x0.75	

#### Description of the components

- (1) Magnification changer
- (2) Diopter compensation for display
- (3) Battery cover
- (4) On and Off switch (reticle illumination)
- (5) Brightness rotary control (reticle illumination)
- (6) Adjustment knob for parallax compensation (not available on the V8 1.1–8 models)
- (7) Protective lens cap for reticle adjustment (elevation)
- (8) Protective lens cap for reticle adjustment (windage)
- (9) Adjustment knob for reticle adjustment (elevation)
- (10) Adjustment knob for reticle adjustment (windage)
- (11) Zero mark of the graduated ring
- (12) Index point
- (13) Bullet drop compensator (BDC/ASV)

#### Focusing the reticle

Focusing the reticle is done by means of the diopter compensation by turning the eyepiece (2).

The ZEISS V8 1.8-14x50 and ZEISS V8 2.8-20x56 riflescopes are equipped with a parallax compensation mechanism that has a click-stop at 100 m. The ZEISS V8 4.8-35x60 also has parallax compensation; however, the click-stop is at 300 m.

#### Adjusting the diopter compensation and the parallax mechanism

- Set the riflescope to the largest available magnification by rotating the magnification changer (1) on the eyepiece support.
- Focus on a target 100 m or 300 m away, depending on the model. Rotate the adjustment knob for the parallax compensation (6) to the 100 m or 300 m click-stop. Focus the reticle by rotating the adjustment knob for the diopter compensation (2). Both the target and the reticle should now be in focus. The diopter compensation only needs to be carried out once.
- By turning the parallax compensation (6), the optimum sharpness for any target distance can now be set and aiming errors due to parallax can be avoided.

### Changing the magnification

All magnifications, from the lowest to highest magnification level, allow infinitely variable setting. Change the magnification by turning the changer **(1)** on the eyepiece tubes. Magnification levels are identified by numbers and markings. By turning left as far as possible, the maximum magnification is achieved. By turning right as far as possible, the lowest magnification is achieved. Medium magnification is set when the groove on the magnification changer is at the top.

### Changing the battery

To change the battery (model CR 2032), turn the cover **(3)** to the left (counterclockwise) and remove the battery. The positive end of the new battery faces outward. Then screw the cover **(3)** back on to the right (clockwise). Make sure it is seated properly and check the condition of the sealing ring. Damaged sealing rings must be replaced. Remove the battery from the riflescope when not in use for a long period of time.

### Reticle illumination

The reticle illumination is turned on by pressing the on/off switch **(4)**. To switch off the reticle illumination, press and hold (2–3 seconds) the on/off switch **(4)**. Turning the rotary control **(5)** to the right (clockwise) increases brightness. Turning the rotary control **(5)** to the left (counterclockwise) reduces brightness. This is a smooth adjustment with a pre-defined minimum and maximum setting and there is no mechanical stop. When you switch off the reticle illumination, the set brightness of the reticle illumination remains saved, even after switching it back on. If the rotary control **(5)** is not used for 3 hours while in the 'on' position, the illumination switches off automatically.

When the charge level is low, the reticle illumination flashes. The flashing can be suppressed if desired: In the switched-on state quickly press the on/off switch **(4)** twice in succession (within 2 seconds). By using this cancellation process, the reticle illumination can be used until final battery discharging without further flashing. After a battery change or switching off the illumination, the warning flashing function is reactivated.

To additionally preserve the battery and to increase the runtime, the ZEISS V8 riflescopes are equipped with an automatic shut-off (if there is no operation or no movement for more than 3 hours) and a movement sensor. This automatically detects the position of the weapon and switches the illuminated dot off by itself at a 45° side inclination or 70° inclination downward or upward. As soon as the weapon is lifted to fire a shot, the illuminated dot turns on again at the preset level of brightness. Activate or deactivate this function by turning the riflescope by 180° upside down and holding the on/off switch **(4)** for 5 seconds. The illumination flashes three times for confirmation.

Even when switching off at an angle, the 3h standby applies, i.e. after 3 hours in the tilted condition, the riflescope does not turn back on.

### Mounting default setting

To be able to use the entire range of the reticle height adjustment, the ZEISS V8 4.8- 35x60 should be mounted with an inclination of approx. 20 angular minutes (approx. 60 cm to 100 m) to the weapon.

To ensure that the weapon and riflescope work together perfectly as a single unit, the riflescope should always be mounted by a qualified gunsmith. Injuries to the eye resulting from the rifle's recoil can be avoided by properly mounting the riflescope at the correct distance from the eye. Proper eye relief also ensures that the full field of view is available.

### Adjusting the ZEISS V8 riflescope to the weapon

Adjusting the ZEISS V8 riflescope to the weapon, correcting deviations from the impact point, is simplified via the click-stops for height and lateral adjustment of the reticle. Proceed as follows:

- After unscrewing the protective lens caps **(7 or 8)**, the reticle can be adjusted for height **(9)** and laterally **(10)** with the adjustment knobs. For ZEISS V8 series riflescopes, one click corresponds to an adjustment of 1 cm to 100 m. If the weapon shoots low, it requires a shot correction upward (direction "H"), corresponding to one clockwise turn of the adjustment knob **(9)**. If the weapon shoots high, it requires a downward correction, in other words turn the adjusting knob counterclockwise **(9)**. If the weapon shoots to the left, it requires a correction to the right (direction "R"), in other words turn the adjusting knob **(10)** clockwise. If the weapon shoots to the right, it requires a correction to the left, in other words turn the adjusting knob **(10)** counterclockwise.
- After aligning the weapon, pull the knob **(9 or 10)** up from the locking mechanism and set the zero mark on the graduated ring **(11)** to the index mark **(12)**. Push the knob **(9 or 10)** down into the locking mechanism. The index serves as a reference guide for further adjustments to the reticle (for other distances or loads).

**Note:** The reticle is set to the middle of the adjustment range and the zero mark on the adjusting ring **(11)** to the index mark **(12)** upon delivery of your ZEISS V8 series riflescope. From this initial setting, an upward, downward, right or left adjustment is possible for more than half of the adjustment ranges stated below in the Technical Data. For shot corrections for riflescopes with bullet drop compensation (BDC) **(13)**, i.e. for devices with a BDC-H (height) or BDC-S (side), please refer to the "BDC+ / BDC LongRange / BDC AdvancedLongRange" user instructions at [www.zeiss.com/cop/manuals](http://www.zeiss.com/cop/manuals).

ZEISS V8 riflescopes are constructed in such a way that even a corresponding movement of the reticle is not noticeable to the center of the picture when adjusting the reticle. The reticle always remains in the center of the image during all adjustments.

### Impermeability

The nitrogen-filled riflescope is waterproof and pressure proof as per ISO 9022-80. The seal is also guaranteed if the protective lens caps **(7 or 8)** are not attached to the reticle adjustment. Please ensure, however, that the protective lens cap **(7 or 8)** and the sealing rings below it are always properly seated.

### Reticle

Your riflescope is equipped with the reticle of your choice. With the ZEISS V8 models, the reticles are in the second level. The reticle is not enlarged when the magnification is changed, but always remains the same. Thus, for these riflescopes the dimension of change of the reticle is dependent on the magnification. For a current overview of available reticles and target coverage, please visit [www.zeiss.com/consumer-products/int/hunting/content/reticles.html](http://www.zeiss.com/consumer-products/int/hunting/content/reticles.html)

### Care and maintenance

The riflescope features the ZEISS LotuTec® coating. The effective protective coating noticeably reduces contamination of the lenses through a special smooth surface and the strong beading effect connected with it. All types of contamination adhere less and can be quickly and easily removed, smear-free. The LotuTec® coating is also durable and abrasion-resistant.

Your ZEISS V8 riflescope requires no special maintenance. Do not wipe off coarse dirt particles (e.g. sand) from the lenses, rather blow them away, or use a fine brush to remove them! Over time, fingerprints can corrode the lens surface. ZEISS recommends using the ZEISS Lens Cleaning Kit for the care and maintenance of the product.

Dry storage and keeping the outer lens surfaces well ventilated, especially in the tropics, helps to prevent a possible mold film forming on the optics.

### Available accessories

For your ZEISS V8 we offer an extensive portfolio of accessories such as Flip Cover, sunshades or Neoprene Cover.

For further information please refer to: [www.zeiss.com/cop/hunting](http://www.zeiss.com/cop/hunting)

### Spare parts or reticle retrofitting for ZEISS V8

Should you require spare parts or a retrofit kit for your riflescope, e.g. protective lens caps, please contact your specialist retailer, representative office of a federal state or our after-sales service.

### Customer service and warranty



For service questions or obtaining the warranty terms, please see our website:

**[www.zeiss.com/cop/warranty](http://www.zeiss.com/cop/warranty)**

For service inquiries or a free copy of the warranty terms for your region, please contact:

#### ZEISS Customer Service

Carl Zeiss Sports Optics GmbH  
Gloelstr. 3–5, 35576 Wetzlar, Germany  
Phone +49 800 934 77 33  
E-mail [consumerproducts@zeiss.com](mailto:consumerproducts@zeiss.com)

#### ZEISS Customer Service USA

Carl Zeiss SBE, LLC  
Consumer Products  
1050 Worldwide Blvd.  
Hebron, KY 41048-8632, USA  
Phone +1-800-441-3005  
E-mail [info.sportsoptics.us@zeiss.com](mailto:info.sportsoptics.us@zeiss.com)

## Technical Data

Technical Data		1.1-8x24		1.8-14x50		2.8-20x56		4.8-35x60	
Magnification		1.1	8	1.8	13.5	2.8	20	4.8	35
Objective lens diameter	mm	10.6	24	18.6	50	27.5	56	48.1	60
Exit pupil diameter	mm	9.9	3.1	10.3	3.7	9.9	2.8	9.9	1.7
Twilight factor		3.4	13.9	5.1	26.0	7.9	33.0	13.6	45.8
Field of view in m at 100 m (Field of view in ft at 100 yd)	m (ft)	39.6 (118.8)	5.4 (16.2)	23.0 (69.9)	3.1 (9.3)	15.3 (45.9)	2.1 (6.3)	8.6 (25.8)	1.2 (3.6)
Objective viewing angle	°	22.2	3	13.1	1.8	8.8	1.2	4.9	0.7
Diopter adjustment range	dpt	-3.5 / +2							
Eye relief	mm (in)	92 (3.6)							
Parallax-free	m (yd)	100 (109)		50 – ∞ (54 – ∞)					
Adjustment range	cm/100 m	500 / 320		310 / 200		210 / 135		140 / 85	
Adjustment per click	cm	1							
Center tube diameter	mm	30		30		30		34	
Eyepiece tube diameter	mm	46							
Lens tube diameter	mm	30		56		62		67	
Coating		LotuTec®							
Nitrogen filling		Yes							
Watertightness	mbar	400							
Functional temperature range	°C (°F)	-25 / +50 (-13 / +122)							
Length	mm (in)	283 (11.1)		343 (13.5)		350 (13.8)		399 (15.7)	
Weight without inner rail	g (oz)	550 (19.4)		720 (25.4)		795 (28)		995 (35.1)	
Weight with inner rail	g (oz)	590 (20.8)		750 (26.5)		830 (29.3)		1015 (35.8)	

Subject to changes in design and scope of supply due to technical improvements.