

# ZEISS CONQUEST HDX

## Manual

Patents: [www.zeiss.com/cop/patents](http://www.zeiss.com/cop/patents)

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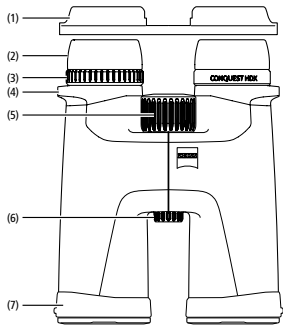


Fig. 1

**DESCRIPTION OF THE COMPONENTS**

1. Eyepiece cap
2. Eyecups
3. Diopter compensation (lockable)
4. Carrying strap eyelets
5. Focusing wheel
6. Interface for tripod adapter 1/4"
7. Protective lens cap

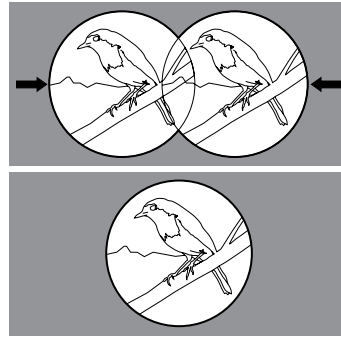


Fig. 2

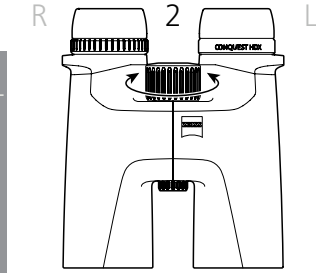
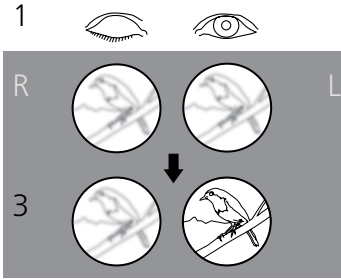
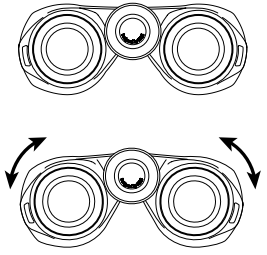


Fig. 3

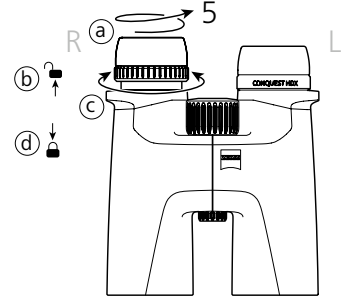
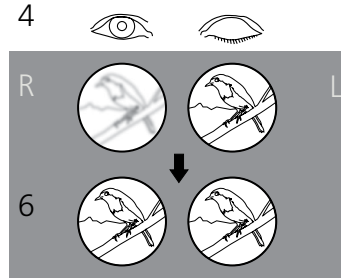


Fig. 4

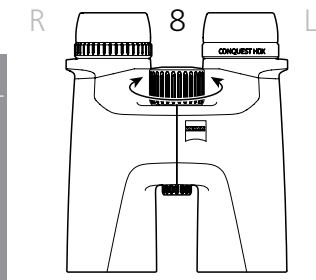
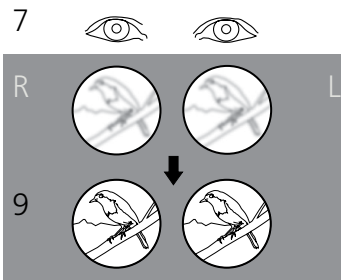


Fig. 5

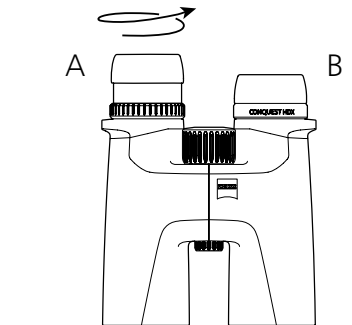
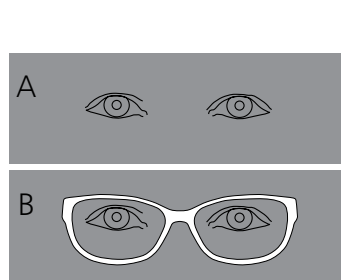


Fig. 6

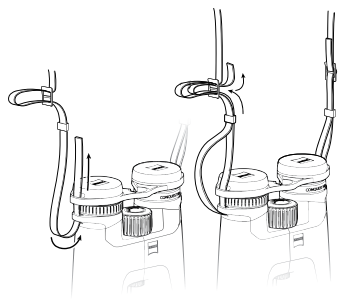


Fig. 7

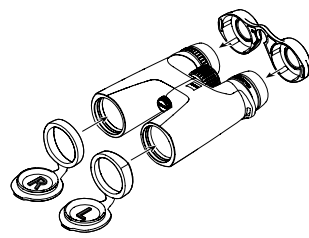


Fig. 8

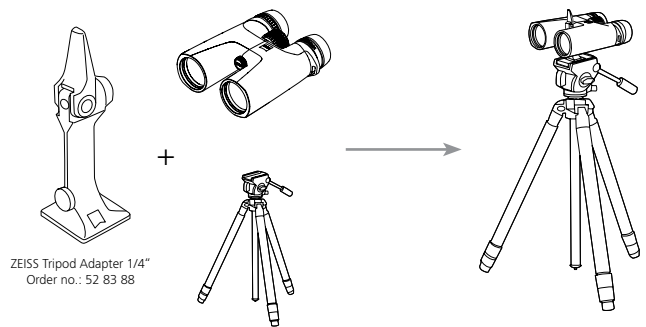


Fig. 9

## INSTRUCTIONS FOR USE

Congratulations on purchasing your new ZEISS CONQUEST HDX® binoculars. Enjoy the memorable experience of realistic image reproduction, characterized by brilliance and high color fidelity.

ZEISS products are famous for outstanding optical performance, precision engineering and a long service life. Please observe the following instructions for use in order to obtain the best from your product and to ensure that they remain your constant companion for many years to come.



Please note the safety instructions, they can be found under:

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



## SCOPE OF SUPPLY

Product	Order number	Scope of Supply
8 x 32	52 32 14	Binoculars
10 x 32	52 32 15	Eyeiece cap Protective lens cap
8 x 42	52 42 14	Carrying strap Carrying case
10 x 42	52 42 15	Lens cleaning cloth Quick Guide
8 x 56	52 56 34	Safety instructions
10 x 56	52 56 35	Tripod adapter ¼" (only for 15 x 56)
15 x 56	52 56 36	

### Adjusting the eye spacing (pupillary distance)

Bend the two barrels toward each other around the central axis, until the distance of the two eyepieces corresponds to the distance between your eyes. This will provide the optimum image for your eyes. The optimum eye spacing is achieved when one circular image is seen when viewing through the binoculars with both eyes (**Fig. 2**).

### Focusing

The binoculars have a focusing wheel and a diopter adjustment wheel. To adjust, close your right eye and focus the image in the left barrel using the center focusing wheel (**Fig. 3**).

Then close your left eye and, if necessary, adjust the focus in the right barrel using the diopter adjustment wheel (**Fig. 4**). Details on this can be found in the next section. The diopter adjustment wheel features a scale with the signs "+" and "-", and has an index point as a reference point. Note your personal setting, then you can quickly set your own diopter setting on any binoculars.

For additional focusing at different distances, use only the focusing wheel (**Fig. 5**).

Note: Always use the same object to focus both images!

### Diopter locking mechanism

The binoculars have a diopter locking mechanism to prevent unwanted adjustment of the diopter compensation (**Fig. 4**).

To adjust the diopters, first unscrew the eyecups (a). Then you can pull the diopter adjustment ring upwards to unlock it (b). Change the diopters as described above by turning the diopter adjustment ring (c). After the focus is correctly adjusted, press the diopter adjustment ring back down to lock it (d).

### Aligning the eyecups, Viewing with and without glasses

If you do not wear glasses when viewing, use the binoculars with the eyecups extended. To do this, turn the eyecups counter-clockwise and upwards to the top click stop position (**Fig. 6 – Illustration A**).

The eyecups can be locked in four positions – at the bottom and top and in two intermediate positions. These adjustment options allow the distance of the eye from the exit pupil to be varied according to the specific requirements of each user.

When viewing with glasses, turn the eyecups down (clockwise) until it locks in the lowest click stop position (**Fig. 6 – Illustration B**).

Note: If the eyecups are turned further counter-clockwise when in the extended position, they can loosen. This is by design. For more information, see "Cleaning and replacing the eyecups".

### Cleaning and replacing the eyecups

To replace the eyecups or for cleaning, they can be completely screwed off of the binoculars. Turn the eyecups out as shown in **Fig. 6** to the top click-stop position and turn the thread in the same direction until the eyecups are completely screwed out.

After cleaning or replacing the eyecups, turn them completely clockwise on the eyepiece (also refer to the section "Aligning the eyecups, Viewing with and without glasses"). By slightly tugging clockwise, the thread of the eyecups engages in the lowest setting. Finally, you can again set your desired distance between the eye and eyepiece using the click stops.

### Attaching the carrying strap and protective cap

The carrying strap, eyepiece cap and protective lens cap are included in the packaging. As shown in **Fig. 7**, the eyepiece cap and carrying strap are attached to the binoculars by means of the carrying strap eyelet.

The strap length can be set to the desired length by shortening or lengthening the strap. On the other side of the eyepiece cap follow the same sequence. The eyepiece cap can also be put on only one side, if preferred.

The lens caps are marked "L" for left and "R" for right and are attached to the left and right tubes respectively (**Fig. 8**).

### Use of eyepiece and lens cap

The eyepiece cap can be attached to the eyecups (**Fig. 8**). You can maintain the desired high-eyepoint design. Remove the cover before using the binoculars.

The lens caps can remain permanently on the binoculars after they have been attached and only need to be opened before use.

### Attachment of tripod adapters<sup>1</sup>

Binoculars from the ZEISS CONQUEST HDX series can be mounted on any commercial camera tripod using the ZEISS tripod adapter 1/4" or the ZEISS Binofix universal tripod adapter (**Fig. 9**).

The order numbers for ZEISS tripods and tripod adapters and other accessories can be found in the "Accessories for ZEISS CONQUEST HDX" chapter.

### Care and maintenance

The binoculars feature the ZEISS LotuTec® coating. The effective protective coating for the lens surfaces 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.

Please do not wipe coarse particles from the lenses (e.g. sand), rather blow them away or use a fine brush to remove them. Over time, fingerprints can corrode the lens surface. Breathing on the lens and polishing with a clean optical cleaning cloth is the easiest method of cleaning the lens surface. 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. Your ZEISS CONQUEST HDX binoculars require no further special care.

Contamination on the rubber coating and the housing can usually be removed using warm water, a cotton cloth and light rubbing.

## ACCESSORIES FOR ZEISS CONQUEST HDX<sup>1</sup>

[www.zeiss.com/nature/binoculars/accessories](http://www.zeiss.com/nature/binoculars/accessories)

<sup>1</sup>Accessories are not included in the scope of supply.

## CUSTOMER SERVICE, REPLACEMENT PARTS AND WARRANTY



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

[www.zeiss.com/nature/service](http://www.zeiss.com/nature/service)

For further questions, please feel free to contact:

### ZEISS Customer Service

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## TECHNICAL DATA

	<b>8 × 32</b>	<b>10 × 32</b>	<b>8 × 42</b>	<b>10 × 42</b>	<b>8 × 56</b>	<b>10 × 56</b>	<b>15 × 56</b>
Magnification	8	10	8	10	8	10	15
Objective lens diameter	<b>mm</b>	32	32	42	42	56	56
Exit pupil diameter	<b>mm</b>	4	3.2	5.25	4.2	7	5.6
Twilight factor		16.0	17.9	18.3	20.5	21.2	23.7
Field of view	<b>m / 1,000 m (ft / 1,000 yds)</b>	140 (420)	118 (354)	128 (384)	115 (345)	125 (375)	115 (345)
Subjective angle of view	<b>°</b>	64	68	59	66	57	66
Close focusing distance	<b>m (ft)</b>	1.5 (4.9)		2 (6.6)		3.5 (11.5)	
Diopter adjustment range	<b>dpt</b>	±4		±4		±4	
Exit pupil distance	<b>mm</b>	17		17		18	
Interpupillary distance	<b>mm</b>	54–74		54–74		54–74	
Prism system		Schmidt-Pechan		Schmidt-Pechan		Abbe-König	
Coating		LotuTec®/T*		LotuTec®/T*		LotuTec®/T*	
Nitrogen filling		√		√		√	
Watertightness	<b>mbar</b>	400		400		400	
Functional temperature range	<b>°C (°F)</b>	–20/+63 (–4/+145)		–20/+63 (–4/+145)		–20/+63 (–4/+145)	
Length	<b>mm (in)</b>	132 (5.2)		150 (5.9)		210 (8.3)	
Width with an eye spacing of 65 mm	<b>mm (in)</b>	118 (4.6)		120 (4.7)		145 (5.7)	
Weight	<b>g (oz)</b>	630 (22.2)		715 (25.2)		1,265 (44.6)	1,275 (45.0)
							1,290 (45.5)

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