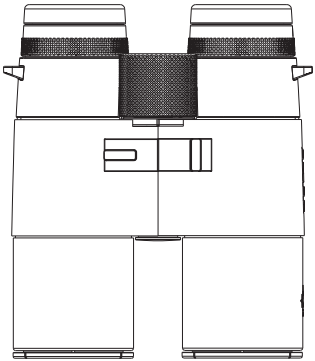
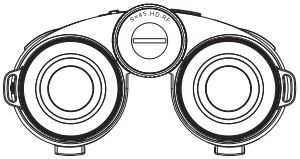
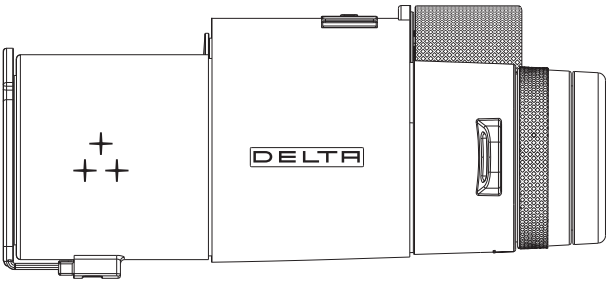
RANGEFINDER BINOCULAR

DELTA-T 9X45.HD.RF

DELTA







THE AIM IS OPTICAL PERFECTION

USER MANUAL

Thank you for purchasing the Delta-T 9x45.HD.RF binoculars. All over the world Delta stands for high quality. To enjoy your binoculars for many years to come, please read the instructions in the user manual.

OPTICS

Magnification	9×
Objective diameter	45mm
Prisms	BaK4
Field of View @1000m	117m / 6.7°
Focus distance min.	3.5m
Diopter adjustment	± 4
Working temperature	-15°C / +55°C
Waterproof	1m / 30min (IPX7)
Weight	965g

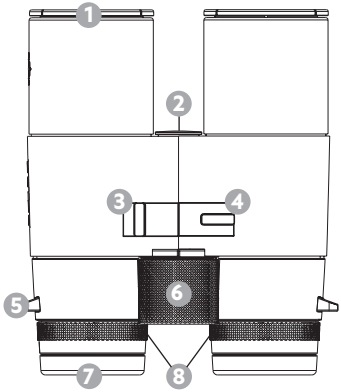
RANGEFINDER

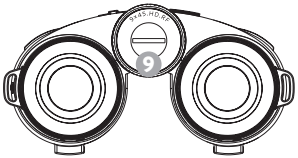
Range	2377m
Min. measuring distance	13.5m
Laser range - declared	2377m*
Laser range - buildings	1828m*
Laser range - deer	1473m*
Angle measuring range	-70° to 70°
Measurement speed	<0.25s
Angle measurement	Yes
Continuous measurement	Yes
Display	OLED
Brightness adjustment	1-5
Energy saving	Shutdown after 10s
Lasera class	Class 1
The length of the laser beam	905nm
Power source	Battery CR2 (3V)

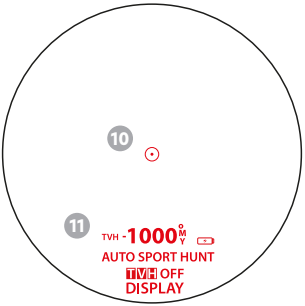
* The measuring range depends on many factors. The longest measuring range is possible for bright, large objects with a uniform structure, located perpendicular to the measuring device. Little sunshine and an almost cloudless sky are the ideal weather conditions for using the binoculars.

	Greater range	Lower range
Target size:	large	small
Aiming angle:	straight	sharp
Structure of the object:	uniform, e.g. wall	a non-uniform, e.g. bushes
Insolation:	slight	very high (sharp sun)

CONSTRUCTION OF BINOCULARS





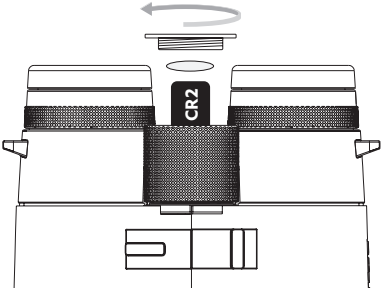


1. Lens
2. 1/4” mount
3. Settings button (SET)
4. Measure button
5. Neck strap lug
6. Center focus adjustment knob
7. Twist-Up eyepiece
8. Diopter adjustment knobs
9. Battery compartment
10. Target marker
11. OLED display

USE

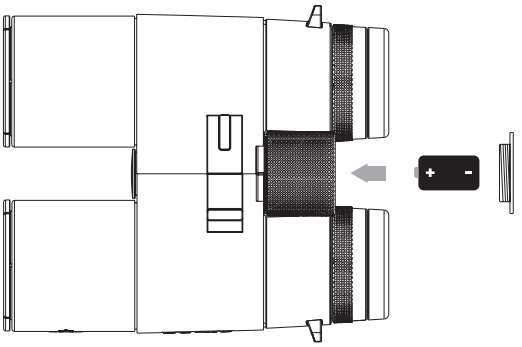
BATTERY INSERTION AND REMOVAL

The binoculars are powered by a CR2 3V battery. Before using the binoculars, unscrew the battery compartment cover located in the central focus adjustment knob by turning it counterclockwise. If the battery is pre-installed, remove the plastic pull tab from between the cap and the battery.



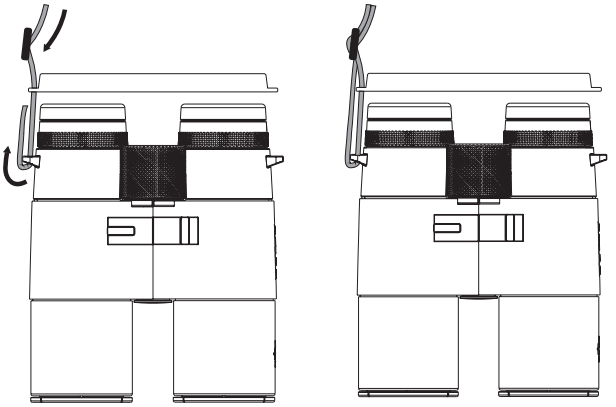
If there is no battery, insert it with the correct polarity (see the marking on the battery compartment cover). Turn the battery cover clockwise. At 20 °C the new battery is sufficient for approx. 2,500 measurements. However, depending on the conditions of use, e.g. in lower temperature or in case of more frequent use of the continuous measurement (scan) mode, the battery life can be significantly shorter. Be sure to check the battery indicator on the display.

If the device is not used for a long time, the battery should be removed to avoid damage caused by leakage. Please use only high-quality batteries.



NECK STRAP ATTACHEMENT

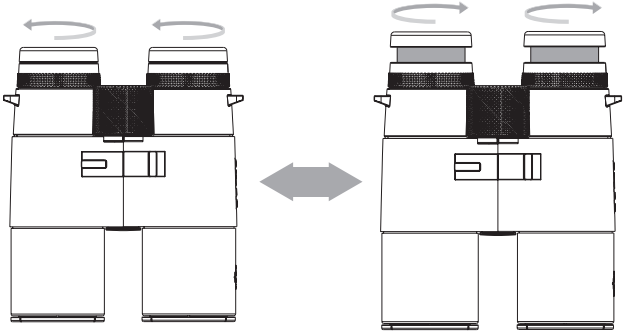
Delta-T 9x45.HD.RF binoculars come with a neoprene neck strap. Pass it through the lug of the binoculars and through one lug of the rainguard (eyepiece lens protective cover).



USING THE BINOCULARS WITH AND WITHOUT YOUR GLASSES ON
Delta-T 9x45.HD.RF binoculars have adjustable eyecups.

Using the binoculars with your glasses on: Twist the eyecups down by turning them clockwise until the eyecups lock in the lowest position possible.

Using the binoculars without your glasses on: Twist the eyecups up by turning them clockwise so that the eyecups lock in the highest possible position.

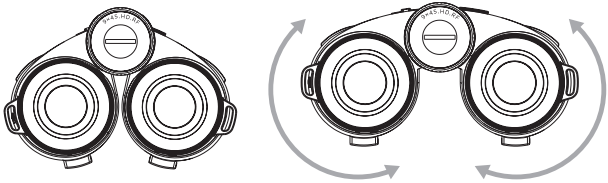


Note: when storing and carrying the binoculars, twist the eyecups down - it will protect them from accidental damage.

ADJUSTING THE INTERPUPILLARY DISTANCE

The proper distance between the two barrels of the binoculars should be set so that when you look through the binoculars with both eyes you will get a round image.

If the interpupillary distance is incorrect, you will not be able to obtain a stereoscopic image and some dark spots and unexpectedly large chromatic aberration may appear.



DIOPTER ADJUSTEMENT

If there are differences in sharpness between the right and left eye, adjust the focus first for the right eye and then for the left eye. This is done as follows:

Close your left eye and turn on the display.

While looking at the display, adjust the display focus by adjusting the diopter of the right eyepiece. Then, while looking through the binoculars at the distant object, adjust the sharpness of the image using the central focusing knob.

Close your right eye (or cover the right lens with your hand).

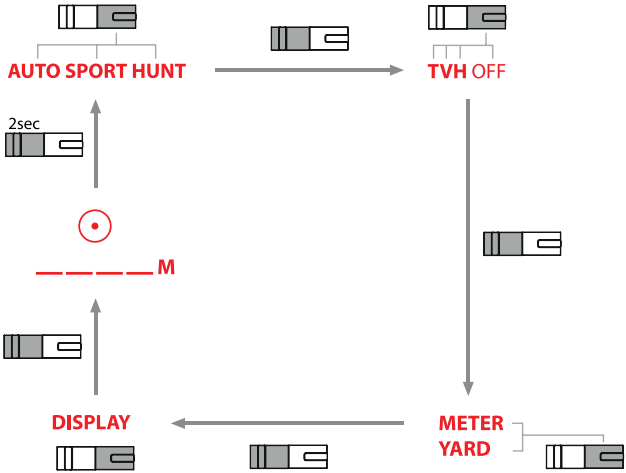
While looking at the object with your left eye, turn the diopter adjustment knob located next to the left eyepiece and focus the image so that you can see the object clearly with your left eye.

Diopter adjustement is done only once for a given observer.

Further focus adjustment is done only with the center knob.

LASER RANGEFINDER

Delta-T 9x45.RF.HD binoculars are equipped with a precise laser rangefinder that allows for precise measurement of the distance between the user and the target.



USING THE RANGEFINDER'S FUNCTIONALITY:

To access the binoculars' menu, press the SET (3) button for approx. 2 seconds. Go to the next functionality, press SET (3), change a parameter, press button 2 (4), confirm the selection by pressing SET (3). While adjusting the settings, holding the SET (3) button for 2 seconds or inactivity for 12 seconds will take the user back to the basic view.

MEASUREMENT MODES

The binoculars have three measurement modes: AUTO, SPORT, HUNT.

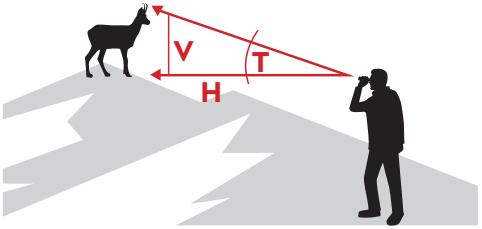
SPORT: When measuring multiple targets, the distances of the targets closest to the user are displayed. In this mode, objects other than the target itself are not measured. In this mode, measuring the distance takes about 3 seconds.
HUNT: When using continuous measurement (scan) mode and measuring multiple targets, the values for the targets farthest from the user are displayed.

CONTINUOUS MEASUREMENT (SCAN) MODE

In AUTO and HUNT modes, the user can also take measurements in continuous (scan) mode. To do this, press and hold the button No. 2 for approx. 3 seconds. The binoculars then switch to the scanning mode and take continuous measurements. The continuous measurement mode turns off when the No. 2 button is released. Continuous distance measurement is helpful for small or moving targets. Continuous (scan) mode is limited to 20s.

ADDITIONAL MEASUREMENTS

The binoculars have three additional functionalities. After selecting the desired functionality, the value is displayed alternately with the linear distance measurement.



T. Angle measurement. This is the angle of the binoculars relative to the observed object.

V. Vertical measurement. It is a measurement of the height of the measured object.

Note: The height of the observed object is measured from the position of the binoculars, not from the ground.

H. Horizontal measurement. This mode measures the equivalent horizontal distance.

OFF. Disabling additional measurement parameters. After pressing OFF the binoculars measure linear distance to observed object.

DISPLAY BRIGHTNESS

To change the brightness of the display, select the DISPLAY function. The binoculars have five display brightness levels. The display is set to position 3 by default.

MOUNTING THE TRIPOD ADAPTER

Delta-T 9x45.HD.RF binoculars are equipped with a socket for attaching a tripod adapter with a 1/4 inch thread. To mount the tripod adapter, unscrew the mounting socket cover on the front of the device between the objective lense barrels. Then screw in the thread of the tripod adapter mounting.

MAINTENANCE

If you want to keep your binoculars in the best possible condition, you should keep them clean. Dust is best blown out or removed with a brush. Pay attention to any solid particles (sand grains and similar) - they can scratch the surface when cleaning. Only after removing sand and dust can the optical surfaces be wiped with a soft microfiber cloth. It is also recommended to use special liquids for cleaning optics.

Note: We do not recommend using paper for cleaning. Paper can damage anti-reflective coatings, some types of paper contain contaminants that can even scratch the lens surface.

The binoculars should be stored in a dry place and always with good ventilation of the outer surfaces of the lenses.