

# Orion® UltraView™ Binoculars

## Care and Use



### UltraView™ Binoculars

Congratulations on your purchase of a precision Orion UltraView™ binocular. With proper care and use it will provide many years of superb, enjoyable viewing. To get the most out of your binocular, please read the following instructions.

*Warning: Never look at the Sun with binoculars or any other optical instrument. Severe and permanent eye damage could result. On sunny days, children should use binoculars only with adult supervision.*

### Adjusting for the Distance Between Your Eyes

The distance between the eyepiece lenses of the binocular should be adjusted to match the distance between your eyes, called the “interpupillary distance.” To adjust the binocular, hold each barrel firmly; move them together or apart while looking through the binocular with both eyes until you see a single, round field. Make this adjustment before focusing.

### Focusing

UltraView™ binoculars feature a convenient center focusing knob. However, because your eyes may differ slightly in their focus, the UltraView™ also includes a right eye diopter adjustment. Once the right eyepiece has been adjusted, you can focus the binocular entirely with the center focusing knob. Here’s what to do:

With both eyes open, rotate the right eyepiece to the full counter-clockwise position, then sight on a distant subject. Cover the right objective (front) lens with your hand. Turn the center focusing knob until the image in the left eyepiece is sharp. Now cover the left objec-

tive lens and focus the right side by rotating the right eyepiece (do not adjust the center focusing knob) until the image is sharp. The binocular is now focused for your eyes. Make a note of the diopter setting so you can return to it quickly in the future. With the right eyepiece now set, focusing is achieved by rotating the center knob.

### Lens Caps

Your UltraView™ binocular is fitted with a plastic cap for each of the objective (large) lenses and eyepieces. Keeping the lens caps on the binocular when it is not in use will greatly reduce dust buildup and prolong the life of the optics.

### Twist-Lock Eyeguards

All UltraView™ binoculars feature convenient twist-lock eyeguards. With less than a 1/4 turn they go from fully extended to fully retracted, or vice versa. When using the binocular without eyeglasses, we recommend leaving the eyeguards in the extended (up) position. For viewing with eyeglasses on, retract each eyeguard turning it counter-clockwise until fully retracted. With the eyeguards retracted (down), your eyes can be positioned closer to the eyepiece lenses for an improved field of view with your glasses on.

### Mounting Your Binoculars on a Tripod

For steadier or extended viewing, you can mount your UltraView™ binocular on any standard camera tripod by means of an optional “L”-bracket (available from Orion and most binocular dealers). Unscrew the small cap bearing the white tripod symbol located at the front of the center shaft, between the two binocular barrels. Removing this cap reveals a 1/4”-20 threaded hole into which the top end of the L-bracket is inserted. The bottom end of the L-bracket is threaded onto the tripod itself.

### Cleaning and Care

Although your UltraView™ binocular is rubber covered, *it is not waterproof!* Avoid exposure to excessive moisture.

The lens surfaces of your binoculars are vacuum-covered with antireflection coatings that can be damaged with careless handling. Avoid touching lens surfaces with your fingers or any course material. Clean the lenses about twice a year, and more frequently if they get dirty. The dust that builds up on them promotes mold growth, which etches the glass and destroys the coatings. Always use lens cleaning tissue and fluid designed specifically for multi-coated lenses. *Do not* use tissue or fluids made for eyeglass or household use.

To clean the binoculars, first puff air on the lens with a blower bulb or with compressed air to remove the larger particles. Then it’s a good idea to brush the lens with a soft lens brush. Next, put two drops of lens cleaning fluid on a sheet of lens tissue (*never* directly on the lens). Wipe the lens gently in a circular motion, taking care



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to avoid undue pressure or rubbing. Quickly remove the excess fluid with a clean, dry lens tissue. On larger lenses, clean only a small area at a time, using a fresh lens tissue on each area.

If dirt accumulates on an interior lens surface, do not attempt to disassemble the housing and clean the lens yourself. Take the binocular to a qualified optical repair technician.

### Storage and Cold Weather

All optics, when exposed to excessive temperature changes or high humidity, have the potential to fog up. In cold weather always allow the optics to adjust slowly to the outdoor temperature for a few hours prior to use by storing the binocular (in its case) in a cool area such as an unheated garage or the trunk of a car. Before bringing the binocular back inside a warm house after use, store it in a cool area for one to two hours. It is important to then open up the case, remove the binocular, take off the lens caps, and let everything dry out overnight. Store the instrument in a cool, dry place; storage in a humid environment will result in mold growth and ruined optics. This is *not* covered by the warranty.

### Repair

If your UltraView™ binocular should require internal cleaning, optical alignment, or other repairs, return it to Orion (if under warranty) or take it to a qualified optical repair shop for service. Never disassemble the binocular yourself. Doing so may disturb the precision optical alignment and will void your warranty.

## Specifications

### 8x42

Magnification	8x
Objective lens aperture	42mm
Eye relief	22mm
Field of View	8.2° / 435 ft. @ 1000 yds.
Close focus	12 ft.
Prisms	BAK-4, Porro
Antireflection coatings	Fully multi-coated
Eyeguards	Twist-lock, rubber covered
Tripod Adaptable	Yes
Weight	27 oz.

### 7x50 and 10x50

Magnification	7x (7x50); 10x (10x50)
Objective lens aperture	50mm
Eye relief	22mm
Field of View	6.5° / 345 ft. @ 1000 yds.
Close focus	16 ft.
Prisms	BAK-4, Porro
Antireflection coatings	Fully multi-coated
Eyeguards	Twist-lock, rubber covered
Tripod Adaptable	Yes
Weight	32 oz.

## BINOCULAR LIMITED WARRANTY

### Orion® UltraView™ Series Binoculars\*

This binocular is warranted to be free of defects in materials and workmanship for a period of 10 Years. This warranty is for the benefit of the original retail purchaser only. During this warranty period Orion Telescopes & Binoculars will repair or replace, at Orion's option, any warranted instrument that proves to be defective provided it is returned postage paid to Orion Warranty Repair, 89 Hangar Way, Watsonville, CA 95076. If your product is not registered, proof of purchase (such as a copy of the original invoice) is required.

This warranty does not apply if, in Orion's judgment, the instrument has been abused, mishandled, self-repaired, or modified, nor does it apply to normal wear and tear. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. For further warranty service information, contact Customer Service, Orion Telescopes & Binoculars, 89 Hangar Way, Watsonville, CA 95076; phone (800) 676-1343.

\* UltraView compact binoculars excluded.

## Orion Telescopes & Binoculars

89 Hangar Way, Watsonville, CA 95076

Customer Support Help Line (800) 676-1343 • Day or Evening