

ORION® 2X54 ULTRA WIDE ANGLE BINOCULARS

#51007

WARNING Never look directly at the Sun through your binoculars without professionally made solar filters, even for an instant, or permanent eye damage could result. Young children should use these binoculars on sunny days only with adult supervision.

Adjusting the Distance Between Your Eyes

Hold each barrel firmly and move the two barrels together or apart to match the distance between your eyes. You should see a single round field with both eyes. Make this adjustment before you focus.

Focusing

Each eyepiece focuses independently. Simply look through one eye, and twist the knurled eyepiece section until the image is clear. Then do the same with the other eyepiece for a sharp focus.

Note Regarding Ultra Wide Angle Field of View

The Orion 2x54 uses a different type of optical system from standard field binoculars in order to obtain the massive 36° field of view. The system is based on the Galilean design of optics, but also incorporates extra lens elements to help correct for aberrations at the edge of the field. Note however, that some distortion at the edge of the field is inevitable with this field of view, and is normal. Keep your eyes as centered as possible in the binocular eyepieces in order to maintain the sharpest image across the field of view. If your eyes are not centered and look at an angle through the eyepiece lenses, the image will distort more than normal.

Cleaning and Care

The lens surfaces of Orion binoculars are coated with anti-reflection coatings that can be damaged with careless handling. Avoid touching surfaces with fingers or any coarse material. Most binoculars, eyepieces, and camera lenses

are cared for in a similar manner. All optics, even if stored, must be cleaned approximately twice a year or whenever they are dirty. The dust that builds up on coatings promotes mold growth, which etches glass and destroys coatings. Avoid over-cleaning; it can damage the coatings. Always use lens cleaning tissue and fluid that are specifically designed for multi-coated lenses. Do not use fluids or tissue that are for eyeglass or household use.

To clean the binoculars, blow off the lens with a blower bulb to remove the larger particles. Make sure your hands are clean. Have several pieces of tissue ready. Put two drops of lens cleaning fluid on a piece of lens cleaning tissue (never on the lens). Gently wipe the dirt off the lens. Quickly wipe the excess with a new, dry piece of lens cleaning tissue. On larger lenses, clean only a small area at a time, using new tissue each time. On excessively dirty lenses, wipe across using one stroke for each tissue, alternating wet and dry. The more fresh, clean lens tissue you use, the less likely you are to scratch your lenses. Always avoid excessive pressure or rubbing. It is better to leave a tiny amount of dirt on the lens than to use too much pressure and destroy the coatings.

Storage and Cold Weather

All optics, when exposed to excessive temperature changes or high humidity, have the potential to fog up. Always allow the optics to slowly adjust to cold weather by storing the binocular (in its case) in a cold area such as an unheated garage or the trunk of a car for a few hours before use. When bringing the instrument back inside a warm house, store it in a cool area for one to two hours. It is very important to then open up the case, remove the instrument, then remove the caps, and let everything dry out overnight. The instrument should be stored in a cool dry place; storing it in a moist environment will result in mold growth and destroy the optics. This is not covered by warranty.

One-Year Limited Warranty

This Orion product is warranted against defects in materials or workmanship for a period of one year from the date of purchase. 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. Proof of purchase (such as a copy of the original receipt) is required. This warranty is only valid in the country of purchase.

This warranty does not apply if, in Orion's judgment, the instrument has been abused, mishandled, or modified, nor does it apply to normal wear and tear. This warranty gives you specific legal rights. It is not intended to remove or restrict your other legal rights under applicable local consumer law; your state or national statutory consumer rights governing the sale of consumer goods remain fully applicable.

For further warranty information, please visit www.OrionTelescopes.com/warranty.

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