Orion® Venture™ Zoom Binoculars

#9376, #9375

Congratulations on your purchase of an Orion Venture Zoom 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.

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

Venture binoculars feature a convenient center focusing knob. However, because each of your eyes may differ slightly in their focus, the binocular also includes a left eye diopter adjustment. Follow this method for focusing:

With both eyes open, rotate the left eyepiece to the full counterclockwise position, then sight on a distant subject. Cover the left objective (front) lens with your hand. Turn the center focusing knob until the image in the right eyepiece is sharp. Now cover the right objective lens and focus the left side by rotating the left 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 left eyepiece now set, focusing is achieved by rotating the center knob.

Figure 1. The magnification is adjusted to the desired level by sliding the zoom lever by the right eyepiece with your thumb and forefinger.

Figure 2. The magnification scale and indicator mark show the magnification setting for the binocular.

Using the Zoom Feature

Orion Ventures provide a continuous range of magnification, giving them great versatility to handle nearly any viewing situation. The magnification is adjusted to the desired level by sliding the zoom lever by the right eyepiece with your thumb and forefinger (Figure 1.) The magnification scale and indicator mark printed underneath the right eyepiece show the magnification setting (Figure 2.) Changing the magnification may also require a slight refocusing of the binocular (with the center focus wheel) to achieve the sharpest image.

For general use, it's a good idea to start viewing at the lowest magnification until you've acquired your viewing target. Then you can zoom to a higher magnification to see more detail.

The Venture 7-15x35 (#9376) has a continuous magnification range between 7x and 15x and 35mm-diameter objective lenses. The Venture 8-20x50 (#9375) has a continuous magnification range between 8x and 20x and 50mm-diameter objective lenses. Note that as magnification increases, the images will not be as bright as they are at lower powers. High magnifications (above 10x power) may also require a tripod for steady views.

Mounting Your Binocular on a Tripod

For steadier or extended-time viewing, you can mount your Orion binocular on any standard camera tripod by means of an optional L-bracket adapter. Unscrew the small cap bearing the white tripod symbol located at the front of the binocular's center shaft, between the two binocular barrels. Removing this cap reveals a 1/4"-20 threaded hole. Thread the bolt of the L-bracket into the hole. The base of the L-bracket is threaded onto the tripod itself.

Cleaning and Care

Although Venture binoculars are rubber covered for water resistance, they are not necessarily waterproof. Avoid exposure to excessive moisture.

The lens surfaces of your binocular are vacuum-covered with antireflection coatings, which can be damaged with careless handling. Avoid touching lens surfaces with your fingers or any coarse material. Clean the lenses about twice a year, or more frequently if they get noticeably dirty. The dust that builds up on them promotes mold growth, which could etch the glass and destroy 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 prevent unnecessary dust build-up, store the binocular in its case and keep the lens covers on whenever possible.

To clean the binocular, first puff air on the lens with a blower bulb or compressed air to remove any large particles. Then 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 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.

Storage and Cold Weather

All optics, when exposed to excessive temperature changes or high humidity, have the potential to fog up. In cold weather, allow the optics to adjust slowly to the outdoor temperature 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, again store it in a cool area for an hour or two, then open the case, remove the binocular, take off the lens caps, and let everything dry overnight. Store the instrument in a cool, dry place; storage in a humid environment will result in mold growth that destroys the optical coatings. This is not covered by the warranty.

Repair

If your Orion binocular requires internal cleaning, collimation, 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.

One-Year Limited Warranty

Orion Venture Zoom Binoculars are 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 to: Orion Warranty Repair, 89 Hangar Way, Watsonville, CA 95076. If the 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, 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 Department, Orion Telescopes & Binoculars, 89 Hangar Way, Watsonville, CA 95076; (800) 676-1343.

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