Orion® GiantView™ Binoculars

#9327 15x70 model **#9326 25x100 model**

#51854 16x80 ED model **#51855 20x80 ED model**

Congratulations on your purchase of a pair of quality Orion binoculars. The GiantView binoculars provide the large light grasp you need for astronomical observation, and unlike a telescope, allow you to use both eyes simultaneously for nighttime, or daytime, viewing. This results in better image resolution, contrast, and brightness than a similar sized telescope can provide. Coupled with their wide fields of view, the GiantViews will make you feel like you're floating in space!

Please take the time to read this instruction sheet before using your new binoculars.

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.

Using the Tripod Mounting Post

When observing with large-aperture binoculars like the Orion GiantViews, a photo tripod or some other type of binocular mount is recommended. This is because the weight and high magnification of the binoculars make it difficult to hold them steady by hand.

To attach the 70mm GiantView binoculars to a tripod, an optional binocular-to-tripod L-adapter bracket is required; this is available from the Orion catalog or telescope.com. The L-adapter threads into the socket on the binoculars' bridge (hinge). Refer to **Figure 1**. Remove the threaded cover from the socket, and thread in the L-adapter's stud. The L-adapter connects to a standard photo tripod or binocular mount via the ¼"-20 threaded holes in its base, thus coupling the binocular to the tripod.

The 80mm and 100mm GiantView binoculars can be attached to a standard photo tripod by means of its integral tripod mounting post (**Figure 1**). Simply thread the ¼"-20 stud of your tripod into the threaded socket on the underside of the mounting post. The tripod mounting post can be positioned anywhere along the brace rod to optimize balance. To do this, first loosen the large knurled knob on top of the post (Figure 1). Then, grip the binoculars and move them forward or backwards relative to the post until the balance seems about right. Re-tighten the knurled knob on the post when done. The brace rod allows positioning of the binoculars relative to the tripod mounting post, but also provides additional stability for the binocular barrels. This helps maintain structural rigidity and optical alignment.

Adjusting the Distance Between Your Eyes (Interpupillary Distance)

Hold each barrel firmly and move them together or apart so the distance between the eyepieces matches the distance between your eyes. When properly adjusted, you should see a single, round field of view when looking through the binoculars. Make this adjustment before you focus the binoculars.

Figure 1. The GiantView 70mm, 80mm, and 100mm binoculars. Not shown: 16x and 20x ED binoculars

Focusing

The Orion GiantView 15x70 and 25x100 feature individual focus eyepieces. The 16x80 and 20x80 ED GiantView binoculars feature a center focus with right diopter adjustment.

For the individual eyepiece focus models (15x70 and 25x100), pick an object in the distance to view. At night, best focus will be achieved by focusing on a bright star. Cover your right eye (or cover the right objective lens of the binocular) and focus the left eyepiece by rotating it until the image appears clearest. Then cover your left eye (or cover the left objective lens of the binocular) and focus the right eyepiece by rotating it until the image appears clearest. The binoculars are now focused. If you want to view an object at a different distance, re-focusing of both eyepieces is required.

To focus the center focus ED models (16x80 ED and 20x80 ED), 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 objective lens and focus the right side by rotating the right eyepiece diopter ring (do not adjust the center focusing knob) until the same object you focused on previously 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 only rotating the center knob.

Since everyone's eyes focus images slightly differently, different observers will need to refocus the binoculars for their own vision.

Fold-Down Eyeguards

Orion GiantView 15x70 and 25x100 binoculars feature fold-down eyeguards. The eyeguards are usually left in the up position for use without eyeglasses, as this helps prevent glare (unwanted stray

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light) from entering between your eye and the eyepieces. To use the binoculars with eyeglasses, you will need to fold the eyeguards down in order to get your eyes close enough to the eyepieces to see the entire field of view. The ED Giantviews feature a similar system, but the eyeguards rotate up and down instead of folding.

Cleaning and Care of Binoculars

The lens surfaces of Orion binoculars are coated with anti-reflection coatings that can be damaged with careless handling. Avoid touching lens surfaces with fingers or any coarse material. All optics, even if stored, should be cleaned at least once 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 also damage the coatings. Always use lens cleaning tissue and fluid that are specifically designed for multi-coated lenses. Do not use fluids or tissues that are for eyeglasses or household use.

To clean the binocular lenses, first blow off the lens with a blower bulb or gently wipe the lens with a lens cleaning brush to remove the larger particles. Put a few drops of lens cleaning fluid on a fresh piece of lens cleaning tissue (never on the lens) and gently wipe the lens. Quickly wipe the excess fluid with a new, dry piece of lens cleaning tissue. For larger lenses, clean only a small area at a time, using a new tissue each time. On excessively dirty lenses, wipe across the lens using one stroke for each tissue, alternating wet and dry. Always avoid excessive pressure or rubbing when wiping, as wiping too hard can scratch the lens.

Storage and Cold Weather

Orion GiantView binoculars come with a heavy-duty case for safe storage and transport. We recommend always keeping the binoculars in their case with the cover caps on when not in use.

All optics, when exposed to excessive temperature changes or high humidity, have the potential to fog up. Allow the optics to slowly adjust to cold weather by storing the instrument (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, open up the case, remove the binoculars, remove the cover caps, and let everything dry out. The binoculars should be stored in a cool, dry place to prevent mold growth, which can damage the optics. This is not covered by the warranty.

Specifications

#9327 15x70 GiantView Binoculars

Magnification	15x
Objective lens aperture	70mm
Focusing	Individual focus eyepieces
Eye relief	18mm
Field of view	4.0˚
Close focus	75 ft
Prisms	BAK-4, Porro
Anti-reflection coatings	Fully multi-coated
Eyeguards	Fold-down, rubber
Weight	4.0 lbs.
Tripod compatibility	Requires optional L-adapter

#9326 25x100 GiantView Binoculars

Magnification	25x
Objective lens aperture	100mm
Focusing	Individual focus eyepieces
Eye relief	18mm
Field of view	2.5°
Close focus	80 ft
Prisms	BAK-4, Porro
Anti-reflection coatings	Fully multi-coated
Eyeguards	Fold-down, rubber
Weight	10 lbs., 2 oz.
Barrel support	Brace rod
Tripod compatibility	Fits standard photo tripods via integral mounting post, balance adjustable

#51854 16x80 ED GiantView Binocular

Magnification	16x
Objective lens aperture	80mm
Focusing	Center Focus with Diopter
Eye relief	21mm
Field of view	4°
Close focus	53 ft
Prisms	BAK-4, Porro
Anti-reflection coatings	Fully multi-coated
Eyeguards	Rotatable up/down
Weight	5.7 lbs.
Barrel support	Brace rod
Tripod compatibility	Fits standard photo tripods via integral mounting post, balance adjustable

#51855 20x80 ED GiantView Binocular

Magnification	20x
Objective lens aperture	80mm
Focusing	Center Focus with Diopter
Eye relief	18mm
Field of view	3.2°
Close focus	53 ft
Prisms	BAK-4, Porro
Anti-reflection coatings	Fully multi-coated
Eyeguards	Rotatable up/down
Weight	5.7 lbs.
Barrel support	Brace rod
Tripod compatibility	Fits standard photo tripods via integral mounting post, balance adjustable

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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