

#51007



2x54 Ultra Wide Angle Binoculars



Instruction Manual

Introduction

Orion 2x54 binoculars are ultra low power, wide field astronomical instruments designed to enhance naked eye stargazing rather than provide high magnification. With only 2x power and extremely large fields of view, they allow observers to take in entire constellations, the Milky Way, and view large scale star fields and nebulae with increased brightness and contrast compared to the unaided eye. They utilize a Galilean optical design that prioritizes an immersive experience. These binoculars are best suited for relaxed, handheld nighttime observing and learning the night sky.

What's Included

- 2x54 Binoculars
- Eyepiece Cap (x2)
- Objective Dust Cap (x2)
- M48 2" Filter Holder (x2)
- Soft Case
- Shoulder Strap



Specifications

Magnification: 2x
Optical Diameter: 54mm
Field of view - angular: 36.0°
Field of view - linear: 1890 ft./ 1000 yd
Apparent field of view: 72.0°
Near focus: 10 ft.
Focus style: Individual eyepiece focus
Interpupillary distance range: 60mm - 81mm
Coatings :Fully multi-coated
Diopter adjustment :Yes
Weight :1.0 lbs.

Use

Interpupillary Distance

Grip both barrels securely and gently pivot them inward or outward until the spacing matches the distance between your eyes. Proper adjustment will produce a single, circular field of view when looking through both eyepieces. This adjustment should always be completed before focusing the binoculars.



Focusing

Each eyepiece has its own independent focus adjustment. Look through one eyepiece with one eye and rotate the knurled eyepiece until the image appears sharp. Repeat this process with the other eyepiece and eye to achieve clear focus for both eyes. It can be beneficial to keep the eye closed, and only open it briefly. This method prevents the eye from making up for inaccuracies of the optical system, and focusing in this way can help with a relaxed long term viewing session that is comfortable for the eyes.



Installing Filters

The Orion 2x54 binoculars include front mounted adapters that reduce the effective aperture and allow the use of standard M48 astronomical filters. These filters can significantly improve the visibility of emission nebulae by increasing contrast against the background sky. To install a filter, first remove the dust caps from the front of the binocular objectives. Thread the supplied filter adapters into the front of each objective, then thread your chosen (optional) UHC or Moon & Skyglow filter into the adapters. Once installed, the filters will enhance contrast and make large deep sky objects stand out more clearly during observation.



Cleaning and Care

The lenses of Orion binoculars are treated with anti reflection coatings that can be damaged by improper handling. Avoid touching the lens surfaces with fingers or rough materials. Binoculars, eyepieces, and camera lenses all require similar care. Optical surfaces should be cleaned when they become excessively dirty. Dust can be removed with a contactless bulb blower similar to what is used for camera lenses. Excessive cleaning should be avoided, as it may also harm the coatings. Only use lens cleaning tissues and fluids specifically intended for multi coated optical lenses. Do not use eyeglass cleaners or household tissues or fluids.

Before cleaning with any contact method, use a blower bulb to remove loose dust and debris from the lens surfaces. Ensure your hands are clean before beginning. Prepare several pieces of lens cleaning tissue. Apply two drops of lens

cleaning fluid to the tissue and never directly to the lens. Gently dab the lens without any wiping motion. Then with a new moistened lens cleaning wipe, wipe the lens surface without any downward pressure to remove dirt, then immediately remove any remaining fluid using a clean, dry piece of lens tissue. Using more clean tissue reduces the risk of scratching the lenses. Avoid applying heavy pressure or excessive rubbing. Leaving a small amount of residue is preferable to damaging the coatings through aggressive cleaning.

Storage

Optical instruments may fog when exposed to rapid temperature changes or high humidity. Before using the binoculars in cold conditions, allow them to adjust gradually by storing them in their case in a cold environment such as an unheated garage or vehicle trunk for several hours. After returning the binoculars to a warm indoor environment, place them in a cool area for one to two hours. After this period, open the case, remove the binoculars, take off the lens caps, and allow all components to dry overnight. Store the binoculars in a cool, dry location. Storage in damp or humid conditions can lead to mold growth, which will permanently damage the optics and is not covered under warranty.

Two-Year Limited Warranty

This Orion product is warranted to the original retail purchaser to be free from defects in materials and workmanship for a period of two (2) years from the date of original purchase.

If a defect covered by this warranty arises during the warranty period, the product may be returned to Orion, in the original packaging, along with proof of purchase (such as the original receipt or order confirmation). The customer is responsible for shipping the product to Orion.

At Orion's discretion, the product will be repaired or replaced with the same or a comparable item. In certain cases, and where appropriate, Orion reserves the right to provide replacement parts directly to the customer if return of the product is deemed impractical or unnecessary.

This warranty does not cover damage resulting from:

- Abuse
- Improper handling or use
- Modification or attempted modification
- Normal wear and tear
- Improper packaging during return shipment

This warranty is non-transferable and applies only to the original retail purchaser.