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Orion 5123

Orion 5123 1.25-Inch Telescope Eyepiece Extension Tube Instruction Manual

INTRODUCTION

The Orion 5123 1.25-Inch Telescope Eyepiece Extension Tube is a versatile accessory designed to provide additional focuser back travel for 1.25-inch telescope eyepieces and other accessories. This extension is particularly useful for achieving proper focus during short-range terrestrial viewing or various astrophotographic applications. It is constructed from durable anodized machined aluminum and includes two thumbscrews for secure attachment of your optical components. The tube is also threaded to accommodate 1.25-inch telescope eyepiece filters.



Image: The Orion 1.25-inch and 2-inch Telescope Eyepiece Extension Tubes, showcasing their design and thumbscrews.

SETUP

1. **Attaching to the Telescope Focuser:** Insert the barrel of the Orion 1.25-inch Extension Tube into your telescope's 1.25-inch focuser drawtube. Secure it in place by tightening the thumbscrews on the focuser. Ensure a snug fit to prevent any movement during observation.
2. **Attaching Eyepieces or Accessories:** Insert your desired 1.25-inch eyepiece, camera adapter, or other accessory into the open end of the extension tube. Use the two thumbscrews on the extension tube to firmly secure the accessory.
3. **Adding Filters:** The extension tube is threaded at the eyepiece end to accept standard 1.25-inch telescope eyepiece filters. Gently screw the filter into the threads before inserting an eyepiece.



Image: A close-up view of the Orion 1.25-inch Extension Tube, highlighting the thumbscrews for securing accessories and the threaded barrel for filters.

Your browser does not support the video tag.

Video: An introduction to the features of the Orion 1.25-inch Extension Tube, demonstrating its use and benefits.

OPERATING

The primary function of the Orion 1.25-inch Extension Tube is to provide an additional 2 inches of focuser back travel. This is crucial when your telescope's focuser cannot reach the necessary inward position to achieve sharp focus with certain eyepieces or accessories, especially during terrestrial observations or when using specific camera setups for astrophotography. By extending the optical path, the tube allows the focuser to operate within its optimal range, ensuring clear and precise images.

MAINTENANCE

- **Cleaning:** To clean the exterior of the extension tube, use a soft, lint-free cloth. For stubborn smudges, a slightly dampened cloth with mild soap and water can be used, followed by thorough drying. Avoid abrasive cleaners or solvents, as these can damage the anodized finish.

- **Storage:** Store the extension tube in a clean, dry environment, away from extreme temperatures and humidity. Keep dust caps on when not in use to prevent dust accumulation inside the barrel.
- **Inspection:** Periodically inspect the thumbscrews and the overall body for any signs of wear or damage. Ensure thumbscrews operate smoothly and securely.

TROUBLESHOOTING

- **Cannot Achieve Focus:** If you are unable to achieve focus with your eyepiece or camera, the extension tube is designed to help. Ensure it is correctly inserted and secured in the focuser, and that your eyepiece/accessory is also securely fastened within the extension tube. The added 2 inches of back travel should allow your focuser to reach the necessary focal point.
- **Loose Accessories:** If an eyepiece or accessory feels loose within the extension tube, ensure both thumbscrews are tightened sufficiently. Do not overtighten, as this can damage the accessory.

SPECIFICATIONS

Feature	Detail
Model Number	5123
Extension Length	2 inches (adds to focuser back travel)
Eyepiece/Accessory Size	1.25 inches
Material	Anodized Machined Aluminum
Securing Mechanism	Two thumbscrews
Filter Threads	Yes, for 1.25-inch telescope eyepiece filters
Product Dimensions	5 x 2 x 2 inches
Item Weight	3.2 ounces

WARRANTY AND SUPPORT

For specific warranty information regarding your Orion 5123 1.25-Inch Telescope Eyepiece Extension Tube, please refer to the documentation included with your purchase or visit the official Orion website. If you require technical assistance, have questions about product functionality, or need to report an issue, please contact Orion customer support directly. Contact details can typically be found on the manufacturer's website or in your product packaging.

