

## Celestron 93571

# Celestron Dielectric Star Diagonal 1.25" with Twist Lock

Model: 93571

## INTRODUCTION

The Celestron Dielectric Star Diagonal 1.25" with Twist Lock is designed to enhance your telescope viewing experience by providing maximum light transmission and optical quality. This accessory reflects the telescope's light path 90 degrees, offering a more comfortable viewing angle. Its advanced dielectric coatings ensure over 99% reflectivity, delivering brighter and sharper images to the eyepiece. The unique twist-lock mechanism securely holds eyepieces and accessories, maintaining optical alignment without scratching their barrels.

## FEATURES

- **Premium Optics:** Features diffraction-limited optics and 58 layers of dielectric coatings for over 99% reflective surface, ensuring maximum light transmission and image clarity.
- **Comfortable Viewing:** Provides a 90-degree viewing angle, ideal for refractors and Cassegrain-type telescopes.
- **Secure Twist-Lock Mechanism:** The twist-lock eyepiece holder secures 1.25" eyepieces and accessories, keeping them centered and preventing scratches, unlike traditional thumb screws.
- **Integrated Barrel Stop:** Includes a 1.25" barrel stop to prevent long-barreled accessories from damaging the mirror.
- **Durable Construction:** Mechanical parts are made of machined black anodized aluminum, with orange anodized twist-lock rings for visibility.
- **Glare Reduction:** The interior of the barrel is glare-threaded and painted flat black to minimize internal reflections.

## WHAT'S IN THE BOX

- 1x Celestron Dielectric Star Diagonal 1.25" with Twist Lock

## SETUP & INSTALLATION

Follow these steps to properly install and use your Celestron Dielectric Star Diagonal:

1. **Attach to Telescope:** Thread the diagonal onto the visual back of your telescope. Ensure it is securely tightened but do not overtighten.
2. **Insert Eyepiece:** The diagonal comes with a 1.25" adapter sleeve pre-installed. To use a 1.25" eyepiece, simply insert it into the adapter.
3. **Secure Eyepiece:** Rotate the orange twist-lock ring clockwise until the eyepiece is firmly held in place. The twist-lock mechanism provides even pressure around the eyepiece barrel, ensuring proper alignment and preventing damage.
4. **Using 2" Eyepieces (if applicable):** If you have a 2" eyepiece, first loosen the twist-lock ring and carefully remove the 1.25" adapter sleeve. Then, insert your 2" eyepiece directly into the diagonal's main barrel and secure it by rotating the twist-lock ring.



Image: The Celestron Dielectric Star Diagonal 1.25" with Twist Lock, showcasing its design and orange twist-lock ring.



Image: The diagonal installed on a telescope, demonstrating how a 1.25" eyepiece fits into the twist-lock adapter.

Video: A demonstration of installing the Celestron Dielectric Star Diagonal on a telescope and inserting both 1.25" and 2" eyepieces using the twist-lock mechanism.

## OPERATING INSTRUCTIONS

Once installed, the Dielectric Star Diagonal operates passively, redirecting the light path. The primary

operation involves inserting and securing eyepieces or other 1.25" or 2" accessories. Always ensure the twist-lock mechanism is fully engaged to prevent accessories from falling out, especially with heavier eyepieces. Adjust the orientation of the diagonal on the telescope's visual back to achieve the most comfortable viewing position for your setup.

## MAINTENANCE

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- **Cleaning Optics:** Use a soft, lint-free cloth specifically designed for optical surfaces. For stubborn smudges, use a small amount of optical cleaning fluid. Avoid touching the mirror surface directly.
- **Cleaning Housing:** Wipe the aluminum housing with a clean, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the diagonal in a clean, dry environment, preferably in its original packaging or a protective case, to prevent dust accumulation and accidental damage. Keep dust caps on when not in use.

## TROUBLESHOOTING

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- **Dim or Blurry Images:** Ensure all optical connections (diagonal to telescope, eyepiece to diagonal) are secure. Check that eyepieces are clean and free from dust or smudges. Verify telescope focus.
- **Eyepiece Not Holding Securely:** Ensure the twist-lock ring is fully tightened. If using a 1.25" eyepiece, confirm the 1.25" adapter sleeve is correctly inserted into the diagonal before inserting the eyepiece.
- **Diagonal Feels Loose:** Re-tighten the diagonal onto the telescope's visual back. If the issue persists, consult your telescope's manual for proper attachment procedures.

## SPECIFICATIONS

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- **Product Dimensions:** 5.2 x 4.3 x 3.8 inches
- **Item Weight:** 10.2 ounces
- **Item Model Number:** 93571
- **Reflectivity:** Over 99% (Dielectric Coatings)
- **Viewing Angle:** 90 degrees
- **Eyepiece Compatibility:** 1.25" (with adapter) and 2" (without adapter)
- **Material:** Machined black anodized aluminum

## WARRANTY & SUPPORT

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Your Celestron Dielectric Star Diagonal includes a **2-Year US Warranty**. For any questions or support needs, please contact Celestron's team of US-based experts. Further information can be found on the official Celestron website.