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› **Meade Series 4000 Super Plossl 1.25" Eyepiece 9.7mm Instruction Manual**

MEADE 07171-02

Meade Series 4000 Super Plossl 1.25" Eyepiece 9.7mm Instruction Manual

Model: 07171-02

1. INTRODUCTION

The Meade Series 4000 Super Plossl 1.25" Eyepiece is designed to provide clear, sharp, and high-contrast views for astronomical observations. This 9.7mm focal length eyepiece is suitable for a wide range of telescopes that accept 1.25-inch barrel accessories, offering a 52-degree apparent field of view. Its multi-coated optics enhance light transmission and reduce reflections, ensuring optimal image quality.



Image of the Meade 9.7mm Series 4000 Super Plossl 1.25" Eyepiece, showing its cylindrical body and optical elements.

2. SETUP

1. **Unpacking:** Carefully remove the eyepiece from its packaging. Ensure all protective caps are in place.
2. **Compatibility Check:** Verify that your telescope's focuser accepts 1.25-inch barrel eyepieces. This eyepiece is designed for 1.25" focusers.
3. **Installation:**
 - Loosen the thumbscrew(s) on your telescope's focuser.
 - Remove the dust cap from the eyepiece barrel.
 - Gently insert the eyepiece barrel into the focuser.
 - Tighten the thumbscrew(s) on the focuser to secure the eyepiece. Do not overtighten.
4. **Eyeguard Adjustment:** The eyepiece features a soft rubber eyeguard. For non-eyeglass wearers, keep the eyeguard extended. If you wear eyeglasses, fold the eyeguard down to allow for comfortable viewing and to prevent scratching your lenses.

3. OPERATING INSTRUCTIONS

1. **Initial Focusing:** Once the eyepiece is installed, point your telescope at a bright, distant object (e.g., the Moon or a bright star). Adjust your telescope's focuser knob until the image appears sharp and clear.
2. **Observing:** Look through the eyepiece. The 9.7mm focal length provides relatively high magnification, making it ideal for detailed observations of lunar craters, planetary features (like Jupiter's moons or Saturn's rings), and compact deep-sky objects.
3. **Using Filters:** The eyepiece barrel is threaded to accept standard 1.25-inch astronomical filters. To install a filter, carefully screw it onto the bottom of the eyepiece barrel before inserting the eyepiece into the focuser. Filters can enhance contrast for specific celestial objects or reduce glare.
4. **Parfocal Design:** This 9.7mm eyepiece is designed to be parfocal with other Meade Series 4000 Super Plossl eyepieces up to 32mm focal length. This means that when switching between parfocal eyepieces, minimal refocusing will be required.

4. MAINTENANCE

- **Cleaning Optics:**

- For light dust, use a soft camel hair brush or a can of compressed air (ensure it's safe for optics and held upright to prevent propellant discharge).
- For smudges or stubborn dirt, use a clean, lint-free optical cloth and a small amount of optical cleaning fluid. Apply the fluid to the cloth, not directly to the lens. Wipe gently in a circular motion from the center outwards. Avoid excessive rubbing.
- Never touch the optical surfaces with your fingers.

- **Storage:** Always store the eyepiece with its protective dust caps in place when not in use. Keep it in a clean, dry environment, away from extreme temperatures and humidity. A padded case is recommended for long-term storage and transport.

- **Eyeguard Care:** The rubber eyeguard can be cleaned with a damp cloth if it becomes dirty. Ensure it is dry before storing.

5. TROUBLESHOOTING

- **Image is blurry or out of focus:**

- Adjust the telescope's focuser knob until the image is sharp.
- Ensure the eyepiece is fully seated and secured in the focuser.
- Check if the telescope's primary optics are properly focused and collimated (refer to your telescope's manual).

- **Dark spots or dust visible in the view:**

- Carefully inspect the eyepiece lenses for dust or debris. Clean as described in the Maintenance section.
- Check your telescope's main optics for dust.

- **Poor image contrast:**

- Ensure the eyepiece lenses are clean.
- Avoid observing through heat currents (e.g., over a warm roof or pavement).
- Allow your telescope to cool down to ambient temperature for optimal performance.

6. SPECIFICATIONS

Feature	Specification
Model Number	07171-02
Focal Length	9.7 mm
Barrel Diameter	1.25 inches
Apparent Field of View	52 degrees
Optical Design	Super Plossl (4-element)
Lens Coating	Multi-Coated
Eyeguard	Soft Rubber, Fold-down
Item Weight	3.2 ounces
Product Dimensions	1.8 x 1.8 x 0.2 inches
Compatible Devices	Telescopes with 1.25" focuser

7. WARRANTY AND SUPPORT

For specific warranty information regarding your Meade Series 4000 Super Plossl 1.25" Eyepiece, please refer to the documentation included with your purchase or visit the official Meade Instruments website. Warranty terms and conditions may vary.

For technical support, service, or additional inquiries, please contact Meade Instruments directly through their official customer support channels.