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› Bresser PL 40mm Telescope Eyepiece User Manual

BRESSER 4920240

Bresser PL 40mm Telescope Eyepiece User Manual

INTRODUCTION

This manual provides detailed instructions for the Bresser PL 40mm Telescope Eyepiece. Designed for small to medium-sized telescopes, this eyepiece features a classic four-lens Plössl design, offering high light transmission and image clarity. It is ideal for enhancing your astronomical observations of celestial objects, providing a wide field of view for deep-sky targets.

PRODUCT OVERVIEW

The Bresser PL 40mm Eyepiece is a high-quality optical accessory for telescopes. It features a robust metal housing and a comfortable rubber eyecup. The optical system consists of 4 lenses arranged in two groups, providing excellent contrast and image sharpness. All lens surfaces are multi-coated to ensure high light transmission and minimize reflections. A standard 1.25-inch filter thread is integrated for attaching various astronomical filters.





The image displays the Bresser PL 40mm eyepiece. It features a black main body with the brand name 'BRESSER' and 'PL40mm' printed in white. The top has a ribbed rubber eyecup, and the bottom is a silver-colored barrel designed to fit into a telescope's focuser.

SETUP

1. **Unpack the Eyepiece:** Carefully remove the eyepiece from its packaging and the protective rotating case.
2. **Remove Protective Caps:** Take off the dust caps from both ends of the eyepiece.
3. **Insert into Focuser:** Slide the silver barrel of the eyepiece into the 1.25-inch focuser of your telescope.

- Secure the Eyepiece:** Tighten the thumbscrew(s) on the telescope's focuser to hold the eyepiece securely in place. Do not overtighten.

OPERATING INSTRUCTIONS

- Focusing:** Look through the eyepiece and adjust your telescope's focuser until the image appears sharp and clear.
- Eye Relief:** The rubber eyecup can be used to provide comfortable viewing and block out stray light. Adjust your eye's distance from the eyepiece for the best view.
- Using Filters:** If desired, screw a standard 1.25-inch astronomical filter (e.g., color filter, nebula filter) into the threaded barrel of the eyepiece before inserting it into the focuser.
- Observation Type:** The 40mm focal length provides a lower magnification and a wider field of view, making it suitable for observing large celestial objects such as star clusters and nebulae. For higher magnifications, consider eyepieces with shorter focal lengths.

MAINTENANCE

- Cleaning Lenses:** Use a soft, lint-free optical cleaning cloth and a specialized optical cleaning solution. Gently wipe the lens surfaces in a circular motion. Avoid excessive pressure.
- Avoid Touching Optics:** Do not touch the optical surfaces with your fingers, as oils and dirt can degrade image quality.
- Storage:** When not in use, place the protective caps back on the eyepiece and store it in its original rotating case. Keep the eyepiece in a dry, dust-free environment to prevent mold growth and dust accumulation.

TROUBLESHOOTING

- Blurry Image:** If the image appears blurry, adjust the telescope's focuser slowly until the image is sharp. Ensure the eyepiece is fully inserted and securely fastened in the focuser.
- Dark Edges or Shadows in View:** This often indicates that your eye is not perfectly centered with the eyepiece's exit pupil. Adjust your eye position slightly or use the rubber eyecup to guide your eye.
- Dust on Lens:** If dust is visible, follow the cleaning instructions in the Maintenance section. Avoid blowing on the lens, as this can introduce moisture or more dust.

SPECIFICATIONS

Model Number	4920240
Focal Length	40 mm
Eyepiece Design	Plössl (4 elements in 2 groups)
Barrel Diameter	1.25 inches (31.7 mm)
Filter Thread	1.25 inches
Eyecup	Foldable Rubber
Housing Material	High-quality Metal

Optical Coating	Multi-Coated
Dimensions (L x W x H)	5.5 x 5.5 x 8.7 cm
Weight	160 grams

WARRANTY AND SUPPORT

For detailed warranty information, product registration, or technical support, please visit the official Bresser website or contact your authorized Bresser dealer. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

