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› Bresser Junior Lens Telescope 50/600 AZ Green User Manual

BRESSER 8850600B4K000

Bresser Junior Lens Telescope 50/600 AZ Green User Manual

MODEL: 8850600B4K000

Introduction

Welcome to the world of astronomy with your new Bresser Junior Lens Telescope 50/600 AZ Green. This manual provides essential information for the proper assembly, operation, and maintenance of your telescope. Designed for beginners, this telescope allows you to explore the moon, planets, and even observe terrestrial objects with ease. Please read this manual carefully before using your telescope to ensure safe and optimal performance.

Safety Information

WARNING: Never look directly at the sun through your telescope or its finderscope, even for an instant, without a professionally made solar filter that covers the entire front of the telescope. Permanent and irreversible eye damage may result. Children should only use the telescope under adult supervision.

- Do not point the telescope at the sun.
- Handle optical components with care to avoid scratches.
- Ensure the tripod is stable on a flat surface to prevent tipping.
- Keep small parts away from young children to prevent choking hazards.

Package Contents

Please verify that all components listed below are present in your package:

- Bresser Lens Telescope 45/600 AZ (Green)
- Simple Aluminum Tripod
- 2 Eyepieces (6 mm and 12 mm)
- Zenith Mirror
- Reversing Lens (Erecting Lens)
- Viewfinder (Finderscope)
- Star Chart
- Planetarium Software (digital)

Assembly and Setup

Follow these steps to assemble your Bresser Junior Lens Telescope:

1. Set up the Tripod:

Unfold the tripod legs and extend them to a suitable height. Secure the legs using the locking clamps. Ensure the tripod is stable on a level surface.





Image: The Bresser Junior Lens Telescope fully assembled on its tripod, showing the green telescope tube and black tripod legs.

2. Attach the Telescope Tube:

Locate the mounting screw on the tripod's altazimuth mount. Align the telescope tube with the mount and secure it firmly with the screw. Ensure the telescope is balanced and stable.



Image: A close-up view of the Bresser Junior Lens Telescope tube, highlighting the objective lens and the Bresser branding.

3. Install the Finderscope:

Slide the finderscope into its bracket on the main telescope tube and tighten the retaining screws. The finderscope helps in locating objects before viewing them through the main telescope.

4. Insert the Zenith Mirror:

Insert the zenith mirror (diagonal) into the focuser tube of the telescope. Secure it with the small thumbscrew. The zenith mirror provides a more comfortable viewing angle, especially for objects high in the sky.

5. Attach an Eyepiece:

Insert either the 6mm or 12mm eyepiece into the zenith mirror. Secure it with the thumbscrew. Start with the 12mm eyepiece for a wider field of view, then switch to the 6mm eyepiece for higher magnification once the object is located.

6. Optional: Use the Reversing Lens:

For terrestrial observations (viewing objects on Earth), insert the reversing lens into the focuser tube before the zenith mirror. This will correct the inverted image produced by the telescope, providing an upright view.



Image: The Bresser Junior Lens Telescope in its complete setup, alongside its product packaging, illustrating the overall product and its presentation.

Operating Instructions

1. Aligning the Finderscope:

Before observing, align the finderscope with the main telescope. Point the main telescope at a distant, stationary object (e.g., a tree or building) during daylight hours. Look through the finderscope and adjust its alignment screws until the object is centered in its crosshairs. Then, check that the object is also centered in the main telescope's eyepiece.

2. **Locating Objects:**

Use the finderscope to locate the desired celestial or terrestrial object. Once the object is centered in the finderscope's view, it should be visible in the main telescope's eyepiece (starting with the 12mm eyepiece).

3. **Focusing:**

Turn the focus knob located on the focuser tube until the image appears sharp and clear. You may need to make fine adjustments as objects move across the sky or as your eyes adjust.

4. **Changing Magnification:**

To change magnification, remove the current eyepiece and insert a different one. The 6mm eyepiece provides higher magnification, while the 12mm eyepiece offers a wider field of view and brighter image. Always start with the lower magnification (12mm) to locate and center an object, then switch to higher magnification (6mm) for more detailed views.

5. **Using the Altazimuth Mount:**

The altazimuth mount allows movement in two axes: altitude (up and down) and azimuth (left and right). Loosen the locking knobs slightly to move the telescope, then tighten them to hold its position. This mount is intuitive for tracking objects across the sky.

Maintenance and Care

• **Cleaning Lenses:**

Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surface. For stubborn smudges, use a small amount of optical cleaning fluid applied to the cloth, not directly to the lens. Avoid touching the lens surfaces with your fingers.

• **Storage:**

When not in use, store the telescope in a dry, dust-free environment. Keep the dust caps on the objective lens and eyepieces to protect them from dust and moisture.

• **General Care:**

Avoid exposing the telescope to extreme temperatures or sudden temperature changes. Do not overtighten screws or knobs, as this can damage the components.

Troubleshooting

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Incorrect focus setting; atmospheric conditions.	Adjust the focus knob slowly. Wait for stable atmospheric conditions.
Cannot find objects.	Finderscope not aligned; using too high magnification.	Align the finderscope with the main telescope. Start with the 12mm eyepiece.
Image is upside down or reversed.	Normal for astronomical telescopes; reversing lens not used for terrestrial viewing.	This is normal for astronomical viewing. For terrestrial viewing, insert the reversing lens.
Image is dim.	Light pollution; high magnification in poor conditions.	Observe from a dark location. Use lower magnification (12mm eyepiece).

Specifications

Product Dimensions	27.56 x 7.87 x 3.15 inches (70 x 20 x 8 cm)
Item Weight	3.74 pounds (1.7 Kg)
Objective Lens Diameter	50 Millimeters
Focal Length	600 mm
Maximum Magnification	Up to 100x
Eyepieces Included	6 mm, 12 mm
Telescope Mount Type	Altazimuth Mount
Finderscope	Reflex
Focus Type	Manual Focus
Model Number	8850600B4K000
Brand	BRESSER

Warranty and Support

BRESSER products are manufactured with high quality standards. For information regarding warranty coverage and terms, please refer to the warranty card included with your product or visit the official BRESSER website. If you encounter any issues or require technical assistance, please contact BRESSER customer support. Contact details can typically be found on the BRESSER website or in the product packaging.

For further assistance, you may visit the [BRESSER Store on Amazon](#).

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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