

[Manuals.plus](#) /

› [BRESSER](#) /

› Bresser Optics 8840350 Refractor 32x Grey/Orange Telescope 34 cm 180 g 5.5 cm Plastic

BRESSER BR-8840350

BRESSER Optics 8840350 Refractor Telescope Instruction Manual

Model: BR-8840350

INTRODUCTION

This instruction manual provides comprehensive guidance for the assembly, operation, and maintenance of your BRESSER Optics 8840350 Refractor Telescope. Designed for ease of use and portability, this telescope is ideal for observing terrestrial objects, the Moon, and planets. Please read this manual thoroughly before first use to ensure proper setup and to maximize your viewing experience.



Image: The BRESSER Optics 8840350 Refractor Telescope, showcasing its compact design, included tripod, and accessories like eyepieces and a smartphone adapter, alongside its packaging.

SAFETY INFORMATION

- **Never look directly at the sun through the telescope or its finder scope.** Permanent eye damage, including blindness, can result.
- Do not leave the telescope unsupervised, especially when children are present.
- Handle optical components with care to avoid scratches or damage.

- Keep the telescope away from extreme temperatures and moisture.
- Ensure the tripod is stable on a flat surface to prevent tipping.

PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- Telescope Optical Tube
- Table Tripod
- Eyepiece: 6 mm
- Eyepiece: 20 mm
- Zenith Mirror (Diagonal)
- Smartphone Adapter (optional accessory, may vary by package)
- Instruction Manual (this document)



Image: Included accessories for the BRESSER telescope, featuring the 12.5mm and 20mm eyepieces, the zenith mirror, and the smartphone adapter for capturing images.

SETUP

Follow these steps to assemble your telescope:

1. **Attach the Tripod:** Unfold the legs of the table tripod. Securely attach the telescope optical tube to the tripod mount using the provided screw. Ensure it is tightened firmly to prevent wobbling.





Image: The BRESSER telescope fully assembled on its compact table tripod, ready for observation.

2. **Insert the Zenith Mirror:** Slide the chrome barrel of the zenith mirror (diagonal) into the focuser tube at the back of the telescope. Tighten the small thumbscrew on the focuser to hold the diagonal in place. The zenith mirror provides a more comfortable viewing angle, especially for objects high in the sky.
3. **Insert an Eyepiece:** Choose either the 6 mm or 20 mm eyepiece. Insert the chrome barrel of the chosen eyepiece into the open end of the zenith mirror. Tighten the small thumbscrew on the diagonal to secure the eyepiece. The 20 mm eyepiece provides lower magnification and a wider field of view, useful for locating objects. The 6 mm eyepiece provides higher magnification for detailed views.
4. **Attach Smartphone Adapter (Optional):** If included, attach the smartphone adapter to an eyepiece. Place your smartphone onto the adapter, aligning its camera lens with the eyepiece. This allows for capturing photos or videos through the telescope.



Image: A close-up view of a smartphone securely mounted to the telescope's eyepiece using the included adapter, displaying a lunar image on its screen.

OPERATING

Focusing the Telescope

Once an eyepiece is installed, point the telescope towards a distant object (e.g., a tree or building during the day, or the Moon at night). Slowly turn the focus knob located on the side of the focuser tube until the image appears sharp and clear. For astronomical observations, it is recommended to focus on a bright star or the Moon.

Observing Terrestrial Objects

For land observations, the zenith mirror will provide an upright but laterally reversed image. This is normal for astronomical telescopes. Use the 20 mm eyepiece for a wider field of view to locate objects, then switch to the 6 mm eyepiece for more detailed views if desired.

Observing Astronomical Objects

For astronomical observations, the zenith mirror will provide an upright but laterally reversed image. This is standard for refractor telescopes. Begin with the 20 mm eyepiece to locate celestial objects like the Moon or bright planets. Once centered, you can switch to the 6 mm eyepiece for higher magnification and more detailed views. Remember that celestial objects move across the sky, so you will need to periodically adjust the telescope to keep them in view.



Image: Examples of views through the telescope, including a detailed image of the Moon, a distant star cluster, and a terrestrial mountain landscape, demonstrating its versatility.

Using the Compass

Your telescope may include a small compass integrated into the optical tube. This can be used to help orient yourself and the telescope, particularly when trying to locate objects based on their direction (e.g., North Star, rising sun/moon). Ensure the telescope is level for accurate readings.



Image: A close-up of the small compass embedded on the telescope's main tube, useful for orientation during observations.

MAINTENANCE

- **Cleaning Optics:** Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surfaces. For stubborn smudges, use a small amount of optical cleaning fluid applied to the cloth, not directly to the lens.
- **Cleaning the Body:** Wipe the telescope body and tripod with a soft, damp cloth. Avoid abrasive cleaners.
- **Storage:** When not in use, store the telescope in a dry, dust-free environment. Keep the lens caps on to protect the optics. The compact design allows for easy storage in a carrying bag or backpack.
- **Avoid Disassembly:** Do not attempt to disassemble the optical components of the telescope, as this can void the warranty and damage the instrument.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper focus; eyepiece not fully inserted.	Adjust the focus knob slowly. Ensure the eyepiece is fully seated and secured in the diagonal.
No image visible.	Lens caps still on; wrong target; very high magnification.	Remove all lens caps. Ensure you are pointing at a visible object. Start with the 20 mm eyepiece (lowest magnification) to locate objects.
Image is upside down or reversed.	Normal for astronomical telescopes with a zenith mirror.	This is expected behavior. The zenith mirror corrects the image vertically but reverses it horizontally. For astronomical viewing, this is not an issue.
Telescope wobbles.	Tripod not stable; telescope not securely attached.	Ensure the tripod legs are fully extended and on a flat, stable surface. Tighten the screw connecting the telescope to the tripod.

SPECIFICATIONS

Feature	Detail
Model Name	8840350
Item Model Number	BR-8840350
Optical Design	Refractor
Objective Lens Diameter	40 Millimeters
Eyepieces Included	6 mm, 20 mm
Zenith Mirror	Included
Mount Type	Table Tripod
Product Dimensions	27.56 x 7.87 x 3.15 inches
Item Weight	6.3 ounces (180 Grams)
Field Of View	2.6 Degrees
Exit Pupil	1.25 Millimeters

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official BRESSER website or contact your local distributor. Keep your proof of purchase for any warranty claims.

BRESSER Store: [Visit the BRESSER Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question

Open the live page

<https://manuals.plus/asin/B07NDFQ46S>

More documents and user manuals: <https://manuals.plus/>