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› Sky-Watcher SK607AZ2 Mercury-607 Refractor Telescope Instruction Manual

Sky-Watcher SK607AZ2

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INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of your Sky-Watcher SK607AZ2 Mercury-607 Refractor Telescope. This 60mm aperture, 700mm focal length telescope is designed for beginner astronomers, offering clear views of celestial objects. Please read these instructions carefully before using your telescope to ensure proper setup and optimal performance.

PRODUCT COMPONENTS

Your Sky-Watcher SK607AZ2 Mercury-607 telescope package includes the following components:

- Refractor 60mm f/700 Optical Tube
- Azimuthal Mount with Aluminum Tripod
- Eyepieces: Super 25mm (1.25"), Super 10mm (1.25")
- 1.5x Erecting Eyepiece
- 2x Barlow Lens (1.25")
- 5x24 Finderscope
- 90° Zenith Mirror (Diagonal) (1.25")

SETUP INSTRUCTIONS

Follow these steps to assemble your telescope:

1. **Unpacking and Identifying Components:** Carefully remove all components from the packaging. Refer to the 'Product Components' list to identify each part.
2. **Assembling the Tripod:** Extend the legs of the aluminum tripod to a stable height. Secure them using the locking clamps. Attach the accessory tray to the center brace of the tripod.
3. **Attaching the Mount:** Place the azimuthal mount head onto the tripod. Secure it firmly with the provided screw or knob from underneath the tripod head.
4. **Mounting the Optical Tube:** Locate the mounting rings or dovetail bar on the optical tube. Attach the optical tube to the mount head, ensuring it is securely fastened. The telescope should be balanced to prevent tipping.

5. **Installing the Finderscope:** Slide the 5x24 finderscope into its bracket on the main optical tube. Tighten the retaining screws to hold it in place.
6. **Inserting the Diagonal and Eyepiece:** Insert the 90° zenith mirror (diagonal) into the focuser drawtube. Secure it with the small thumbscrew. Then, insert your chosen eyepiece (e.g., 25mm) into the diagonal and secure it with its thumbscrew.



An image showing the Sky-Watcher SK607AZ2 Mercury-607 Refractor Telescope fully assembled on its aluminum tripod. The silver optical tube is angled upwards, with the finderscope and eyepiece diagonal visible at the rear. The tripod legs are extended, and the accessory tray is attached.

OPERATING THE TELESCOPE

Once assembled, follow these steps for observation:

- 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 distant tree or building). Look through the finderscope and adjust its alignment screws until the object is centered in its crosshairs. Then, look through the main telescope's eyepiece and fine-tune the finderscope alignment until the object is centered in both.
- 2. Observing with the Telescope:** Use the finderscope to locate your desired celestial object. Once centered in the finderscope, look through the main telescope's eyepiece.
- 3. Changing Magnification:** To change magnification, swap eyepieces. A lower focal length eyepiece (e.g., 10mm) provides higher magnification, while a higher focal length eyepiece (e.g., 25mm) provides lower magnification and a wider field of view. The Barlow lens can be used with any eyepiece to double its magnification.
- 4. Focusing:** Use the focus knob on the focuser drawtube to achieve a sharp image. Turn it slowly until the image appears clear.

MAINTENANCE AND CARE

- Cleaning Optics:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, use a specialized optical cleaning solution sparingly. Avoid touching the lens surfaces with your fingers.
- Storage:** Store the telescope in a dry, dust-free environment. Keep dust caps on the optical tube and eyepieces when not in use.
- Handling:** Always handle the telescope with care. Avoid sudden impacts or dropping components.

TROUBLESHOOTING

- Image is blurry:** Adjust the focus knob slowly until the image is sharp. Ensure the eyepiece is fully inserted and secured.
- Cannot find objects:** Ensure the finderscope is properly aligned with the main telescope. Start with the lowest magnification eyepiece (25mm) for a wider field of view.
- Image is upside down or reversed:** This is normal for astronomical telescopes. The 1.5x erecting eyepiece can be used for terrestrial viewing to correct the image orientation.
- Telescope shakes excessively:** Ensure the tripod legs are fully extended and locked, and all mounting screws are tightened. Observe from a stable surface.

SPECIFICATIONS

Brand	Sky-Watcher
Model	SK607AZ2
Optical Design	Refractor
Aperture	60 mm
Focal Length	700 mm
Focal Ratio	f/11.7
Mount Type	Azimuthal

Tripod	Aluminum
Finderscope	5x24
Eyepiece Description	Super
Objective Lens Coating	Fully Coated
Product Dimensions (L x W x H)	95 x 26 x 15 cm
Item Weight	3 kg (6.61 lbs)
Included Magnifications	35x, 70x, 140x

SAFETY INFORMATION

- **Never look directly at the sun through the telescope or finderscope without a certified solar filter.**
Permanent eye damage or blindness can result.
- Do not leave the telescope unattended, especially when children are present.
- Ensure the tripod is stable on a level surface to prevent the telescope from falling.
- Avoid using the telescope in extreme weather conditions (heavy rain, strong winds).

WARRANTY AND SUPPORT

Warranty information for the Sky-Watcher SK607AZ2 Mercury-607 telescope is typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact Sky-Watcher customer support for details regarding warranty coverage and technical assistance.

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