

F30070

Generic F30070 70mm Astronomical Telescope

USER MANUAL

1. Introduction

Thank you for purchasing the Generic F30070 Astronomical Telescope. This manual provides detailed instructions for assembling, operating, and maintaining your telescope to ensure optimal performance and enjoyment. Please read this manual thoroughly before use.

2. Safety Information

- **Never look directly at the sun through the telescope or its finder scope without a professionally made solar filter.** Permanent and irreversible 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.
- Ensure the tripod is stable on a level surface to prevent tipping.

3. Package Contents

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



Image: Exploded view diagram showing all components of the telescope kit, labeled A through L.

- A. Telescope Tube (A)
- B. Moon Filter (B)
- C. Eyepieces (2) (C) - H20mm (15X) and H6mm (50X)
- D. Diagonal Mirror (D)
- E. Smartphone Adapter (E)
- F. Finder Scope with Bracket (F)
- G. Control Lever (G)
- H. Tripod (H)
- I. 3X Barlow Lens (K)

J. 1.5X Erecting Eyepiece (L)

K. Instruction Manual (not pictured)

4. Setup

Follow these steps to assemble your telescope:



Image: The fully assembled Generic F30070 telescope on its tripod, with a smartphone attached via the adapter.

1. **Set up the Tripod:** Extend the legs of the tripod (H) to a suitable height and spread them apart for stability. Secure the legs using the locking mechanisms.
2. **Attach the Telescope Tube:** Locate the mounting bracket on the telescope tube (A) and align it with the mounting platform on the tripod. Secure the telescope tube to the tripod using the provided screw or clamp.
3. **Install the Finder Scope:** Slide the finder scope (F) into its bracket on the main telescope tube. Tighten the small screws on the bracket to hold it in place.
4. **Insert the Diagonal Mirror:** Remove the dust cap from the focuser tube at the back of the telescope.

Insert the diagonal mirror (D) into the focuser and tighten the small thumbscrew to secure it.

5. **Insert an Eyepiece:** Choose an eyepiece (C), typically the H20mm for initial viewing, and insert it into the diagonal mirror. Tighten the small thumbscrew on the diagonal mirror to hold the eyepiece.
6. **Attach the Control Lever:** Screw the control lever (G) into the designated port on the telescope mount for easier manual tracking.
7. **Attach the Smartphone Adapter (Optional):** If desired, attach the smartphone adapter (E) to an eyepiece. Place your smartphone into the adapter and align its camera lens with the eyepiece.

5. Operating the Telescope



Image: Diagram highlighting key operational parts of the telescope such as the eyepiece, finder scope, and focusing mechanism.

1. **Aligning the Finder Scope:** Before observing, align the finder scope with the main telescope. Point the main telescope at a distant, stationary object (e.g., a treetop). Look through the finder scope and adjust its alignment screws until the object is centered in the finder scope's crosshairs.
2. **Locating an Object:** Use the finder scope to locate the desired celestial or terrestrial object. Once centered in the finder scope, it should be visible in the main telescope's eyepiece.

3. **Focusing:** Look through the eyepiece and slowly turn the focusing knob (located on the focuser tube) until the image is sharp and clear.

4. **Changing Magnification:**

- The H20mm eyepiece provides 15X magnification.
- The H6mm eyepiece provides 50X magnification.
- To achieve higher magnification, insert the 3X Barlow Lens (K) into the diagonal mirror first, then insert an eyepiece into the Barlow lens. This will multiply the eyepiece's magnification by 3 (e.g., H20mm with Barlow = 45X, H6mm with Barlow = 150X).
- The 1.5X Erecting Eyepiece (L) can be used for terrestrial viewing to correct the inverted image.



Image: Illustration of the moon as seen through the telescope with a 20mm eyepiece, providing 15X magnification.



Image: Illustration of the moon as seen through the telescope with a 6mm eyepiece and 3X Barlow lens, providing 150X magnification.

5. **Tracking Objects:** As celestial objects move across the sky, use the control lever (G) and the horizontal motion lock to make small adjustments to keep the object centered in your field of view.
6. **Using the Moon Filter:** For observing the moon, insert the Moon Filter (B) into the bottom of your chosen eyepiece before inserting the eyepiece into the diagonal mirror. This will reduce glare and enhance contrast.

6. Maintenance

- **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 on the cloth, not directly on the lens.
- **Storage:** When not in use, cover the telescope with its dust caps and store it in a dry, dust-free environment. Avoid extreme temperatures and humidity.
- **General Care:** Avoid touching optical surfaces with bare hands. Keep the telescope away from direct sunlight when not in use to prevent internal heat buildup.

7. Troubleshooting

- **Image is blurry:** Adjust the focusing knob slowly until the image is sharp. Ensure the eyepiece is fully inserted and secured. Check for condensation on lenses.
- **Cannot find objects:** Ensure the finder scope is properly aligned with the main telescope. Start with the lowest magnification eyepiece (H20mm) for a wider field of view.
- **Image is dim:** This can occur with very high magnifications or in light-polluted areas. Try a lower magnification eyepiece. Ensure lenses are clean.
- **Image is inverted:** This is normal for astronomical telescopes. For terrestrial viewing, use the 1.5X Erecting Eyepiece (L) to correct the image orientation.

8. Specifications

Feature	Specification
Objective Aperture	70mm
Focal Length	300mm
Eyepieces	H20mm (15X), H6mm (50X)
Magnification Range	15X - 150X (with 3X Barlow Lens)
Barlow Lens	3X
Erecting Eyepiece	1.5X
Material	ABS plastic, Aluminum alloy, Rubber, Optical glass
Color	Black + Silver
Model	F30070

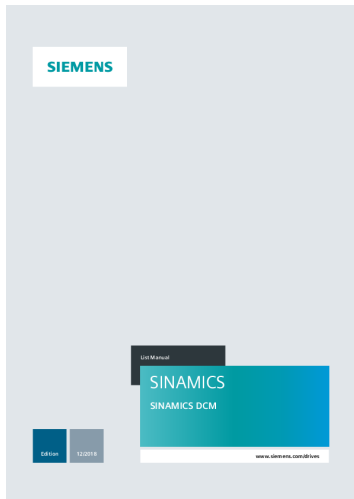


Image: Diagram illustrating the approximate dimensions of the assembled telescope, showing a length of 36cm for the main tube and a total height of 52cm on the tripod.

9. Warranty and Support

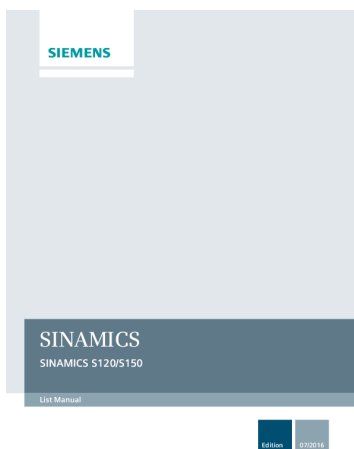
Warranty information for this product is not specified in the provided documentation. For any support inquiries or issues, please refer to the retailer or point of purchase.

Documents - F30070 – F30070



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to the other manuals tools provided for product Search The following guides are help you locate
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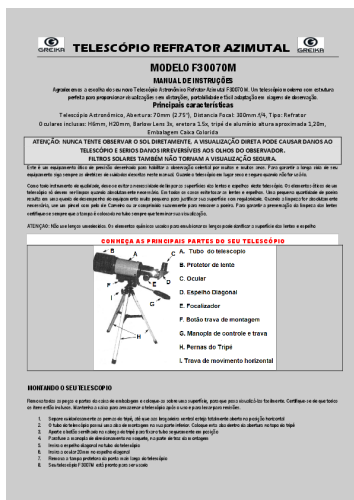
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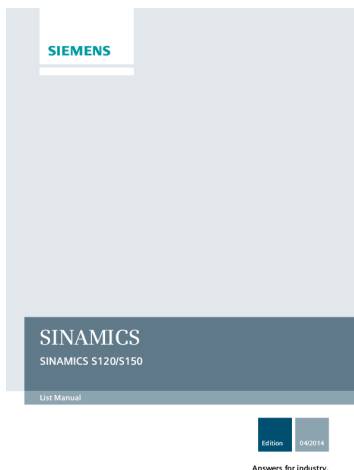
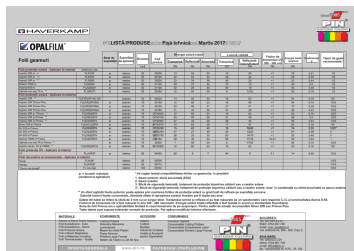
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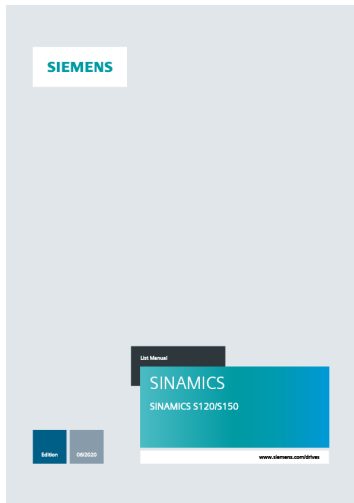
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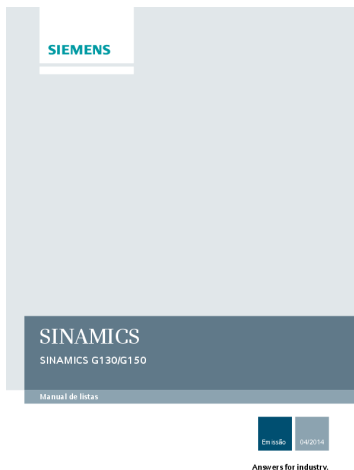
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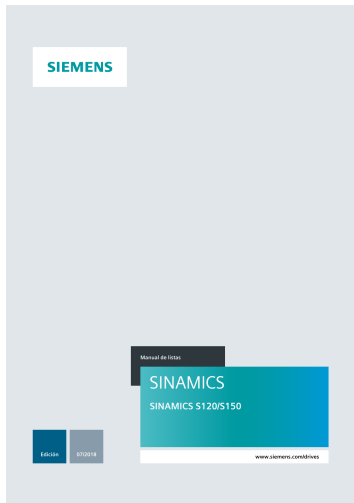
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