

Sky-Watcher Skywatcher Skymax-127 (OTA)

Skywatcher Skymax-127 OTA Maksutov-Cassegrain Telescope User Manual

Model: Skywatcher Skymax-127 (OTA)

INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of your Sky-Watcher Skymax-127 OTA Maksutov-Cassegrain Telescope. Please read this manual thoroughly before using your telescope to ensure safe and optimal performance. This telescope is designed for astronomical observation, offering clear views of celestial objects.

SAFETY INFORMATION

Your safety is paramount. Please observe the following warnings:

WARNING! NEVER LOOK AT THE SUN!

NEVER LOOK AT THE SUN THROUGH A TELESCOPE, SPOTTING SCOPE, BINOCULARS, AN EYEPiece OR AN ACCESSORY. NEVER USE AN OPTICAL INSTRUMENT OR ACCESSORY TO OBSERVE THE SUN. THIS COULD CAUSE PERMANENT EYE DAMAGE, INCLUDING BLINDNESS.

NEVER USE SOLAR FILTERS THAT SCREW ONTO THE EYEPiece OR ACCESSORY; THE HEAT GENERATED COULD BREAK THE OPTICAL ELEMENTS AND CAUSE SEVERE EYE INJURY.

AVVERTENZA!

**NON GUARDARE MAI IL SOLE ATTRAVERSO UN
TELESCOPIO, UN CANNOCCHIALE, UN BINOCOLO,
UN OCULARE O UN ACCESSORIO.**



NON UTILIZZARE MAI UNO STRUMENTO O ACCESSORIO OTTICO PER OSSERVARE IL SOLE. CIO' POTREBBE CAUSARE DANNI PERMANENTI AGLI OCCHI.

NON UTILIZZARE MAI FILTRI SOLARI CHE SI AVVITANO ALL'OCULARE O ALL'ACCESSORIO, IL CALORE GENERATO POTREBBE ROMPERE GLI ELEMENTI OTTICI.



AVVERTENZA!
**IL PRODOTTO
CONTIENE PICCOLE
PARTI CHE SE INGERITE
POTREBBERO
COMPROMETTERE LA
SICUREZZA CON
POTENZIALE PERICOLO
DI SOFFOCAMENTO.**



AVVERTENZA!
**MANEGGIARE CON
ATTENZIONE IL
PRODOTTO ED
EVITARE GLI URTI.
I COMPONENTI
PESANTI IN CADUTA
POTREBBERO
CAUSARE LESIONI.**

Auriga S.r.l. Via M.F.Quintiliano, 30 Milano 20138 IT - 025097780 - auriga@auriga.it

Image: Warning label indicating severe eye damage from solar observation, choking hazard from small parts, and injury risk from falling heavy components.

WARNING! The product contains small parts which, if swallowed, could compromise safety with potential choking hazard. Keep out of reach of small children.

WARNING! Handle the product with care and avoid impacts. Heavy falling components could cause injuries. Always secure the telescope properly on a stable mount.

WHAT'S IN THE BOX

Your Skymax-127 OTA package includes the following components:

- 127mm f/1500 Maksutov-Cassegrain Telescope (Optical Tube Assembly)
- Eyepieces included (1.25 inch): 10 mm and 25 mm
- Luminous dot finder scope
- 1.25 inch / 31.7 mm diagonal mirror
- Built-in holder for the alignment of the pole finder



Image: The Skywatcher Skymax-127 Optical Tube Assembly (OTA).

SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Retain the original packaging for future transport or storage.
2. **Mounting the OTA:** Attach the Skymax-127 OTA to a compatible astronomical mount (mount not included). Ensure the dovetail bar is securely fastened to the mount's saddle.



Image: Front view of the Skymax-127 OTA, highlighting its compact design.

3. **Attaching the Diagonal:** Insert the 1.25 inch / 31.7 mm diagonal mirror into the telescope's visual back and secure it with the thumbscrew.
4. **Inserting Eyepieces:** Insert either the 10 mm or 25 mm eyepiece into the diagonal. Start with the 25 mm eyepiece for a wider field of view and easier object acquisition.
5. **Attaching and Aligning the Luminous Dot Finder Scope:** Mount the luminous dot finder scope onto its designated bracket on the telescope tube. Align the finder scope with the main telescope by pointing the telescope at a distant terrestrial object (e.g., a tree top or distant building) and adjusting the finder scope's alignment screws until the object is centered in both the finder's red dot and the main telescope's eyepiece.

OPERATING THE TELESCOPE

- **Focusing:** To achieve a sharp image, rotate the focus knob located at the rear of the telescope. Turn it slowly until the image appears clear and crisp. Fine-tuning may be required as objects move or as your eye adjusts.
- **Changing Magnification:** To change magnification, simply swap eyepieces. The 10 mm eyepiece provides higher magnification (150x with f/1500) and the 25 mm eyepiece provides lower magnification (60x with f/1500). Higher magnification is useful for detailed views of planets and smaller deep-sky objects, while lower magnification is better for wider fields of view and brighter objects.
- **Observing Celestial Objects:**
 - **Locating Objects:** Use the luminous dot finder scope to point the telescope at your desired celestial object. Once the object is centered in the finder, it should be visible in the main telescope's eyepiece.
 - **Tracking:** As the Earth rotates, celestial objects will appear to drift out of the field of view. You will need to periodically adjust your mount to keep the object centered.
 - **Atmospheric Conditions:** Observing quality is significantly affected by atmospheric conditions. Clear, steady nights with minimal light pollution provide the best views.

MAINTENANCE

- **Cleaning Optics:** Dust on the objective lens or eyepiece can degrade image quality. Use a soft brush or compressed air to remove loose dust. For stubborn smudges, use a specialized optical cleaning solution and a microfiber cloth, applying gentle, circular motions. Avoid touching optical surfaces with bare hands.
- **Storage:** When not in use, store the telescope in a dry, dust-free environment. Use the original caps to cover the objective lens and eyepiece openings to prevent dust accumulation.
- **Handling:** Always handle the telescope and its components with care. Avoid dropping or subjecting the instrument to sudden impacts.

TROUBLESHOOTING

Problem	Possible Cause / Solution
Image is blurry/out of focus	Adjust the focus knob slowly. Ensure the eyepiece is fully inserted and secured. Check for condensation on optics.
No image visible	Ensure lens caps are removed. Check that the eyepiece is inserted correctly. Verify the finder scope is aligned with the main telescope.
Image is dim	This is normal for high magnification or faint objects. Observe from a dark location. Allow your eyes to adapt to the darkness.
Stars appear as streaks	This indicates the mount is not tracking properly or the telescope is vibrating. Ensure the mount is stable and tracking correctly.
Dew/Condensation on optics	Allow the telescope to acclimate to ambient temperature before use. Use a dew shield or a low-power hairdryer (on cool setting) to gently remove condensation.

SPECIFICATIONS

Feature	Detail
Product Dimensions	26.38 x 11.81 x 10.63 inches
Item Weight	11.02 pounds (5000 Grams)
ASIN	B00CYHSWR0
Item Model Number	Skywatcher Skymax-127 (OTA)
Manufacturer	Sky-Watcher
Brand	Sky-Watcher
Optical Tube Length	5 Inches
Eyepiece Lens Description	Plossl
Objective Lens Diameter	127 Millimeters
Telescope Mount Description	Altazimuth Mount (OTA only, mount not included)
Focus Type	Manual Focus




Feature	Detail
Finderscope	Reflex (Luminous Dot Finder)
Compatible Devices	Astronomical Accessories, Mounts, Software
Magnification (with supplied optics)	60x (with 25mm eyepiece) and 150x (with 10mm eyepiece)

WARRANTY & SUPPORT

This Sky-Watcher product is covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, service, or technical support, please contact Sky-Watcher customer service or visit the official Sky-Watcher website. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the [Sky-Watcher Store on Amazon](#).

Related Documents

	<p>Sky-Watcher BD Maksutov Cassegrain 150mm OTA Telescope</p> <p>Information on the Sky-Watcher BD Maksutov Cassegrain 150mm OTA telescope, highlighting its portability, superior optics, and ease of use for stargazers. Features include a lightweight design, quick setup, and a 5-year limited warranty.</p>
	<p>Sky-Watcher Telescope Basics and Types</p> <p>An informative guide to understanding telescope basics, including aperture, focal length, focal ratio, magnification, and light-gathering power. Explores different telescope types like refractors and reflectors, and provides insights into star testing for optical quality. Features Sky-Watcher's product lines.</p>
	<p>Sky-Watcher AZ-GT Series Multi-Purpose Mounts: Compact & Portable Telescopes</p> <p>Explore the Sky-Watcher AZ-GT Series Multi-Purpose Mounts, offering compact, portable, and powerful solutions for astronomers. Featuring WiFi control via the SynScan Pro app, Freedom Find™ Dual Encoder Technology for accurate tracking, and support for up to 11-pound payloads, these grab-and-go mounts are ideal for both beginners and experienced users. Discover models like AZ-GTe, AZ-GTi, Startravel, and Skymax, complete with detailed specifications.</p>



[Sky-Watcher Star Adventurer GTi Multi-Purpose GoTo Mount](#)

Discover the Sky-Watcher Star Adventurer GTi, a portable multi-purpose GoTo equatorial mount designed for deep space, widefield, and nightscape astrophotography. Featuring integrated Wi-Fi, USB connectivity, and an illuminated polar scope, it offers full GoTo flexibility and multiple tracking rates for easy object locating and tracking.