

SKY-WATCHER SYNSCAN TELESCOPE CHECK LIST

PREPARING

- Fully charge battery before the session.
- *Recommended:* Review location of bright alignment stars and planets in the sky.
- At observing location, ensure the telescope base is level (as best you can).
- Raise top of telescope tube on struts until it clicks into place. Tighten levers.
- Mount telescope tube in base and secure with bolt—no wobbles!
- *IMPORTANT:* Align finder to telescope using distant object (lamp, tree, bright star, or bright planet). Centre the object in the telescope, then adjust the finder.

INITIALIZING

- *Option:* plug in GPS module for automatic location, date, and time.
- *Recommended:* power up from HOME position: point telescope north and level the tube.
- *If GPS option:* enter time zone and Daylight Saving Time (Yes/No) and wait for GPS fix.
- *Otherwise:* enter long/lat, time zone, elevation, date (mm/dd/yyyy), time (24h), DST.

SKY ALIGNMENT

Option 1: No-stars alignment (approximate alignment, manual positioning).

- Starting from HOME position, select (2) No Alignment.
- Select a bright target from the PLANET or OBJECT/Named Stars menu.
- Allow telescope to move to the approximate position.
Refine position in finder with hand control.
- Refine position in telescope (low-power eyepiece) with hand control.
- Manually move the telescope to observe other objects.
- Once you find an object, the telescope will track fairly well.

Option 2: Bright star alignment (precise, you don't need to know the names of things)

- Select (1) Alignment, then Bright Star
- Select Region of the sky: N, NE, E, SE, S, SW, W, NW
- Brightest stars and/or planets will be displayed in order of brightness.
- Select one and refine position in finder & telescope.
- Last moves should be UP and RIGHT
- Telescope will suggest one more star for alignment—repeat

Option 3: Two star alignment (precise, but you need to know your stars!)

- Select (1) Alignment, then Two Star
- Select one and refine position in finder & telescope
- Last moves should be UP and RIGHT
- Telescope will suggest one more star for alignment—repeat

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UTILITY MENU

- Check battery voltage: UTILITY/Show Info/Power Voltage
- Park telescope: UTILITY/Park Scope/Home position

TIPS

Pointing the telescope tube

- It is ok to manually push the telescope tube to roughly point it
- You can change the motor slew speed by RATE # ENTER (# = 1–9)

Magnification

- Magnification = telescope focal length ÷ eyepiece focal length
- 25 mm eyepiece: $M = 1250 \div 25 = 50x$
- 10 mm eyepiece $M = 1250 \div 10 = 125x$
- Inserting Barlow lens doubles the magnification (100x, 250x)

Mirror alignment

- *Option:* occasionally check mirror alignment with supplied eyepiece cap.