

# Orion Starblast 6i Intelliscope Telescope

## Set-up/Start-up Instructions:

1. Portable Table Assembly and Leveling: (if not using table, skip to step 2)
  - a. Pull table top off of storage poll in center of folded table.
  - b. Open table legs/sides into “X” shape
  - c. Correctly orient table top with top “X” shape of legs and snap down into place.
  - d. Rotate center lock to “Closed” position.
  - e. Use 9-inch level found in accessories box to make sure the table top surface is level with the ground.
2. (Optional) Carefully remove Telescope from storage tub with handles of zippered soft case and carry to observing location.
3. Remove telescope from zippered soft case by lifting telescope out by handles cut into the support assembly below where the hand paddle is attached; carefully set telescope on portable table or other secure and level surface.
4. Move Optical Tube from Stow Position:
  - a. Slightly loosen the two screws that secure the optical tube mounting rings.
  - b. Slide optical tube upwards an inch or two so that the vertical stop attached to the base of the rotating support structure is aligned with the border/base of the optical tube, rather than the tube itself.
  - c. Retighten the optical tube mounting ring screws. (Note: Loosening the screws on the optical tube mounting rings can also allow for the optical tube to be rotated within the mounting rings to better position the eye piece to a more comfortable viewing position, depending on where the telescope is pointing. Just don’t forget to retighten them.)
5. Rotate the telescope in altitude (ALT; up/down) and remove the large lens cap at the end of the optical tube.
6. Remove the cap covering the eyepiece assembly and the 25mm eyepiece and insert the eyepiece barrel into the eyepiece assembly; tighten screws to secure.
7. Check the finderscope alignment.
  - a. Turn on the finderscope laser by turning the knob with the white dot on the side of the finderscope.
  - b. Point telescope to a distant object on the horizon, like the top of a building or tree, etc. or the moon if it’s dark enough and visible.
  - c. Find and focus (with small knob extending out of the back of the telescope near the eyepiece; Quick Setup Guide picture 18) on object with telescope 25mm or 32mm eyepiece by slewing the telescope with the arrows on the hand paddle control.
  - d. Now use the ALT and AZ (azimuth; left/right) adjustment knobs on the finderscope to align and center the finder laser on the target.
  - e. Turn off the finderscope (only turn on when using to conserve battery)

You are now ready to observe – or you can follow the alignment procedures in the Orion Starblast 6i Intelliscope instruction manual to align the telescope for “push to” capabilities. If you do not use these capabilities, you will not need the hand paddle.

## Quick Set-up/Start-up Check-List

- Assemble portable table, if necessary.
- Level table or telescope surface.
- Place telescope on tabletop or other secure surface.
- Move telescope in ALT and remove large lens cover and eyepiece assembly cap.
- Insert eyepiece; secure with screws.
- Check finderscope alignment by pointing to easily found object on horizon or moon.
- Go observe something by pushing telescope in ALT (up/down) and AZ (left/right) OR
- Follow instructions for aligning telescope for “push to” help from hand paddle.

### Observing Tips:

- 1.) The larger the lens diameter in millimeters (mm), the wider the field of view but the smaller the magnification. It's often easier to find objects in the eyepiece with a larger field of view eyepiece, and then switch eyepieces to one with higher magnification (smaller in mm) to see more detail (like zoom on your camera).
- 2.) The optical tube mounting screws can be loosened and the optical tube rotated to facilitate looking through the eyepiece, depending on how the telescope is pointed. Just remember to retighten!
- 3.) The finderscope may not be able to be perfectly aligned. If not, make sure the object is centered in the telescope eyepiece, then look for its location in the finderscope and remember this location relative to the laser dot. Next time, align the next object in the finderscope to this (off center) location, rather than the center, and the object is more likely to be seen immediately in the telescope eyepiece.
- 4.) If your object is not in the telescope eyepiece, systematically scan in small amounts in a pattern by moving the telescope to try to find it.
- 5.) Because this telescope does not have a motor to track an object (i.e., keep up with an object as it moves across the sky because of the earth's rotation), make sure to check back in the eyepiece often to adjust the telescope position to keep the object in the field of view. Depending on the eyepiece field of view, it could move out of the field as quickly as every couple of minutes or so.
- 6.) The large knob where the telescope optical tube mounts to the fork assembly can be loosened or tightened to change the tension in moving in the ALT direction.
- 7.) Don't touch the telescope while viewing objects! Just lean in and look through eyepiece.

## Quick Close-down/Pack-up Check-List

(Follow Set-up Instructions in reverse for detailed instructions)

- Make sure finderscope and hand paddle are turned off.
- Remove eyepiece, replace all caps, and stow all eyepieces in accessories box.
- Replace large telescope lens cover and cap over eyepiece assembly.
- Move telescope to stow position (optical tube vertical, eyepiece assembly toward mount)
- Loosen mounting rings and slide optical tube all the way to mount base; retighten screws.
- Carefully pick up telescope and stow in soft case (close zipper) and storage box.
- Return all accessories and instruction books to accessories box.
- Stow accessories box and Planispheres along side the telescope in the large storage box.
- Disassemble and stow portable table.