



Before removing your filter from the sealed plastic wrapper, check the filter size (to your optical device) to make sure you purchased the right size filter.

IMPORTANT POINTS TO REMEMBER ABOUT YOUR FILTER:

- 1) Never look through your optical device at the sun until the Solar Filter is properly attached.
- 2) Direct sunlight may warm the tube assembly enough to cause internal heat currents that can degrade image quality. Point your optical device away from the sun before removing the solar filter, unless it is a total solar eclipse in totality.
- 3) Check the filter for any pinholes, scratches or other damage before each use.
- 4) Cover your finder scope if not equipped with a Solar Filter.
- 5) Equalize your filter and optical device to the outside temperature (at least 15 minutes).
- 6) Do not view over pavement or buildings. Viewing over grass will help avoid surface heat currents.
- 7) Do not leave the optical device unattended so that children or inexperienced adults could point it at the sun without the filter properly equipped.
- 8) "Ghosting" can occur due to internal reflections. If this is a problem, simply tilt the filter slightly.
- 9) When looking through the focusing tube without an eyepiece, there may appear to be small defects in the coating which are not seen when observing through the eyepiece. This is normal and is not an optical or safety concern.
- 10) **Threaded camera solar filters cannot be used as DROP-IN filters. It will cause damage to the filter and possibly your equipment.**

WARNING: ALWAYS MAKE SURE THE FILTER IS SECURELY ATTACHED TO THE SKY END OF YOUR TELESCOPE/BINOCULARS/CAMERA, ETC. DO NOT USE AS A **DROP-IN** FILTER. OUR FILTER SHOULD BE FIRST IN LINE ALWAYS! NEVER OBSERVE THE SUN WITHOUT A PROPERLY ATTACHED FILTER OR WITHOUT SOLAR VIEWING EYE PROTECTION.

Cleaning Solar filters: The filter can be cleaned as often as necessary using a clean soft cloth or lotion free tissue and isopropyl alcohol. Keep in mind the coating is sensitive and can be scratched or rubbed off if excessive rubbing occurs. This optical filter should be handled with care. It should be kept in a protective case whenever it is not in use. This will minimize the chances of accidental damage or contamination of the glass. Should there be damage to the coated surface of the filter bright pinholes can occur. If you see any bright pinholes you must block them out before use.

Blocking Pin Holes: You can test for pinholes before using the filter by doing the following: Hold the filter with the inside toward you and outside toward a standard 60-100-watt clear incandescent light bulb. The filter should be one to two feet from the light bulb. If you have a filter with Helios Solar Film, you do not need to check for pinholes. If you decide to check the film for any reason **DON'T** get too close to the light bulb (you will burn a hole in the film). You should be able to observe any pinholes at this time and they should be blocked during this procedure. All touch-ups should be made on the inside (coated) surface. As many as 20 touchups per clear aperture inch can be made with no adverse effects to the optical performance or safety of the filter. Blocking can be done with a fine point permanent marker in either black or silver. Although pinholes and scratches are common in glass solar filters, we are proud of the fact that they are minimal in ours. All filters are tested for quality and safety before shipment. If you see black or silver dots on your filter these are blocked pinholes. Always double check your filter before use.

Mounting: Before observing the sun, it is important to equalize the Solar Filter and optical device to the outside temperature. Place the solar filter and your optical device outside. Do not observe through it for at least 15 minutes. The filter should be installed with the optical device pointed upward. Carefully slide the filter over the end of the optical tube. **Never** force the filter on the optical tube. If it doesn't go on easily it is the wrong size. The filter will have one or more thumb screws, depending on the size filter, positioned on the side. Hand screw the thumb screw(s) against the optical tube so that the filter is centered and just snug enough to prevent the filter from slipping off the end while pointed down. For those filters that have only one thumb screw felt is provided to center the filter. Stick the felt on the inside of the filter opposite the thumb screw, so that as you tighten the thumb screw the filter tightens against the felt pad. Do not over tighten the thumb screw(s), this can cause distortion, glass cracking, or stripping of the threads. You need to allow space for thermal expansion. **The threaded camera solar filters have fine threads. Carefully screw the filter on the lens until it is snug. Do Not Over Tighten!**

Caution: Your finder scope must either have a solar filter or be covered. If you look through your finder scope at the sun without a solar filter you can damage your eye in fraction of a second. With a little practice you can obtain close alignment by moving your tube assembly until the smallest shadow of the tube assembly is cast behind you.

Damaged Merchandise: In the event your merchandise has been damaged during transit, keep the original filter case and packing material intact. Email us at Info@SeymourSolar.com for instructions on where to send the damaged merchandise.