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SOLAR FILTER INSTRUCTIONS

White Light (580-630nm)

TECHNICAL DETAILS:

SolarLite Film: Metallic coating outside surface & absorptive material within substrate.

Silver-Black Polymer Film: Absorptive material within substrate. All filters block 99.999% of the energy from entering the instrument. For visual and photographic use.

IMPORTANT:

Check the solar filter for any possible damage before each use.

The filtering must be **FIRST** in-line between sun and instrument. Do not hold filter behind eyepieces, finder scopes or any focused sunlight. It will damage the film and void warranty.

Secure filter properly. (See mounting instructions)

Do not leave instrument unattended where a child or inexperienced adult could point it at the sun without the filter properly attached.

Keep the finder-scope covered if not equipped with a proper solar filter.

Point the instrument away from sun when installing and removing solar filter.

Do not place the filter up against a smaller instrument. The end of the tube will damage the filter.

OPEN TRUSS TELESCOPES:

If the solar filter is to be used on an open truss telescope, the open area from front (secondary mirror) to back (primary mirror) must be covered. No direct sunlight should enter the optical path or the concentrated beam from the mirror can focus on the back of the solar filter film and cause damage and void warranty.

MOUNTING:

The inside of the cell will be lined or unlined with felt depending on the size ordered. If your filter is too loose, it can be custom fitted using the extra felt included. If the paper backing is difficult to remove, dampen with water or alcohol using a wet sponge or fine spray mist. Do not over wet the felt. Peel backing off slowly. Let dry if necessary before installing on inside of cell. Extra felt can be added over any existing felt. Test fit before removing the backing and permanently installing the felt. We cannot exchange for another size if the felt is installed.

TIPS:

- Allow instrument and filter to equalize to the outside temperature for at least 15 minutes.
- If possible, do not view over pavement or buildings. Viewing over grass or water will help avoid heat currents that will degrade the image.
- Cover dark colored instruments with a light-colored cloth.

CLEANING:

Glass (prior to 2018): Loose dust can be blown off with up to 15 PSI. Clean with Isopropyl (rubbing) alcohol and a soft tissue. Do not use a cloth. It's best to mist the filter with a spray versus soaking the tissue. Use a 3 inch or larger circular wad of tissue and lightly rub across surface using long strokes. Lightly wipe dry with a fresh dry tissue.

SolarLite & Silver-Black Polymer Film: Same as glass, however, polymer is more susceptible to small surface scratches, so extra care should be taken. Surface scratches will not compromise the safety.

WARRANTY:

Glass 2+ (sold prior to 2018): 15 years. SolarLite: 15 years, Silver-Black Polymer 15 years. All filters are covered by a limited liability warranty from defects in material and workmanship. This warranty does not apply if in the judgment of Thousand Oaks Optical, the product fails to be safe due to shipping damage, damage from improper handling or storage, abuse or misuse, or has been used or maintained in a manner not conforming to product's instructions or has been modified in any way.