

# Orion® SkyGlow™ & UltraBlock™ Light-Pollution Filters

#5660 1.25" SkyGlow Broadband Filter

#5659 2" SkyGlow Broadband Filter

#5658 SkyGlow Broadband Filter for Schmidt-Cassegrains

#5654 1.25" UltraBlock Narrowband Filter

#5657 2" UltraBlock Narrowband Filter

#5656 UltraBlock Narrowband Filter for Schmidt-Cassegrains



The SkyGlow and UltraBlock Series of filters allows light from nebulas and other deep-space objects to pass through them while blocking light from street lights and other undesirable light sources.

The SkyGlow Broadband Filter is useful in areas of moderate light pollution like nearby street lights. It blocks the most common undesirable light pollution, while passing other desirable wavelengths such as Hydrogen Alpha, Hydrogen Beta, and Doubly Ionized Oxygen. It is designed for both visual and photographic use.

The UltraBlock Filter is a narrow band transmission filter with very high (99.9%) blocking of Mercury and Sodium emission pollution bands, and very high transmission of critical Hydrogen Beta and Ionized Oxygen. It is most useful in areas of extreme light pollution like cities and busy streets. The UltraBlock Filter is particularly well suited for observing all planetary and emission nebulas. It is not generally recommended for photography.

## Mounting the 1.25" or 2" Filter

Thread the filter into the barrel of your standard 1.25" or 2" eyepieces and use your eyepieces normally.

## Mounting the Schmidt-Cassegrain Filter

Thread the filter onto the rear cell where you normally attach your visual back or T-adaptor. The filter provides the same threads as the rear cell of your Schmidt-Cassegrain, so you can continue to use any of your standard accessories as before.

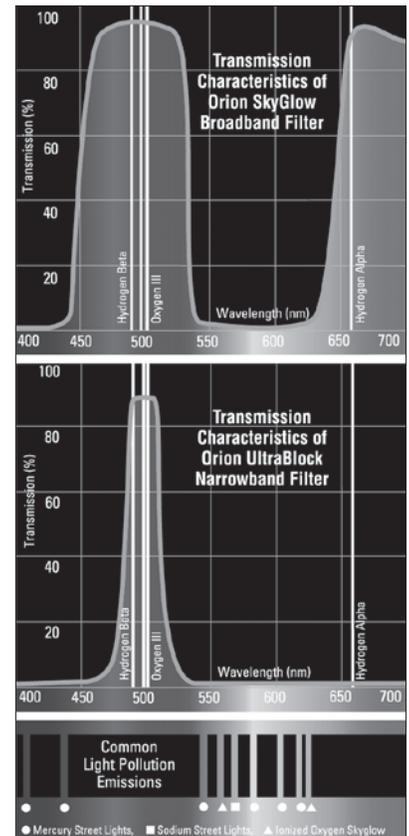
## The Importance of Dark Adaptation

Allowing your eyes to dark-adapt is the key to getting the most from your light pollution filter. Allow your eyes to dark-adapt for about 20-30 minutes before you use the filter. Once the pupil in your eye opens up, you'll be able to take full advantage of the benefits of the filter. Remember, the instant you glance at a bright object like a street lamp or bright flashlight bulb, your eyes lose their dark adaptation. You have to wait another 20-30 minutes for it to return. Locate the scope away from direct illumination by street lights. Set up in the "shadows" of buildings and other objects.

## What You Will See

These filters improve contrast between sky and object but will not actually make the object brighter. Expect a very dark sky back-

ground and a somewhat dimmer but high-contrast image. The filters perform best on emission objects like the Orion and Trifid nebulas in winter, and the Lagoon or Dumbbell nebulas in summer. Try these nebulas for your first use of the filter. Our SkyGlow and UltraBlock filters improve the contrast of most objects, but have considerably less effect on galaxies and stars. The coatings on the filters are specifically formulated for emission-type objects. Remember to use low power and longer focal-length eyepieces.



## Care of Your SkyGlow and UltraBlock Filters

Avoid contacting the coated glass surface. Keep the filter in its protective storage box when you are not using it. Use compressed air to blow off dust particles. If the glass surface accumulates oily dirt, use lens cleaning fluid and tissue as instructed in their packaging directions.

## One-Year Limited Warranty

Orion SkyGlow and UltraBlock Filters are warranted against defects in materials or workmanship for a period of one year from the date of purchase. This warranty is for the benefit of the original retail purchaser only. During this warranty period Orion Telescopes & Binoculars will repair or replace, at Orion's option, any warranted instrument that proves to be defective, provided it is returned postage paid to: Orion Warranty Repair, 89 Hangar Way, Watsonville, CA 95076. If the product is not registered, proof of purchase (such as a copy of the original invoice) is required.

This warranty does not apply if, in Orion's judgment, the instrument has been abused, mishandled, or modified, nor does it apply to normal wear and tear. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. For further warranty service information, contact: Customer Service Department, Orion Telescopes & Binoculars, 89 Hangar Way, Watsonville, CA 95076; (800) 676-1343.

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