

Orion® SkyGlow™ Imaging Filters

#5559 1.25"

#5561 2"

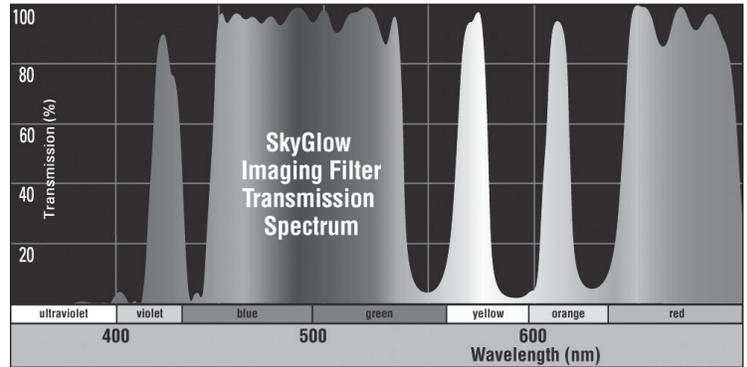
The SkyGlow Imaging filters pass most light from deep-space objects while selectively blocking unwanted light from street lights and other undesirable light sources. This filter is useful in areas of moderate or heavy light pollution, as well as fairly dark areas that are still effected by minor light pollution. Unlike other "broadband" light pollution filters, which block large portions of the visible spectrum, the SkyGlow Imaging filter rejects only narrow regions of the spectrum associated with the wavelengths of light emitted by common outdoor lighting. As a result, the images obtained with this filter will preserve a virtually neutral color balance, while greatly improving image contrast. The filter is designed exclusively for imaging use.

The SkyGlow Imaging filters also block infrared (IR) and ultraviolet (UV) wavelength light. The filter has been designed this way in order to provide the highest transmission of visual wavelengths of light without the contaminating effects of IR and UV light which can reduce image contrast and lead to bloated star images.

Using the SkyGlow Imaging Filter

The 1.25" SkyGlow Imaging filter is compatible with all 1.25" Orion StarShoot™ imaging cameras, and most other digital (CCD and CMOS) astronomical imaging cameras. The 2" SkyGlow Imaging filter is compatible with DSLR camera adapters and larger CCD cameras fitted with 2" filter threads. To install the filter, simply thread the filter onto the 1.25" or 2" camera nosepiece or camera adapter barrel until it is finger tight. Then place the camera into the telescope and bring it into focus as normal.

While the filter passes most of the desired wavelengths of light, the images will require slightly longer exposures to obtain sufficient brightness. As a benefit, the filter allows much longer time lapse exposures since the sky glow will not over saturate the camera as quickly.



This graph shows the typical light transmission through the Orion SkyGlow Imaging filter. Note that the filter passes most of the visual spectrum between 410nm-700nm, with the exception of key wavelengths responsible for light pollution.

Storage and Cleaning

When not in use, the SkyGlow Imaging filter should be kept in its plastic case. Given proper care and storage, the filter will last a lifetime. Any quality optical lens cleaning tissue and optical lens cleaning fluid specifically designed for multi-coated optics can be used to clean the glass surfaces of your filter. Never use regular glass cleaner or cleaning fluid designed for eyeglasses. Before cleaning with fluid and tissue, blow any loose particles off the surfaces of the filter with a blower bulb or compressed air. Then apply some cleaning fluid to a tissue, never directly on the optics. Wipe the lens gently in a circular motion, then remove any excess fluid with a fresh lens tissue. Oily fingerprints and smudges may be removed using this method. Use caution; rubbing too hard may cause scratches.



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