



Nikon Full Frame ILDC Clip-in Filter Introduction



Filter Type	Specifications	MAP in US Dollars	Launch Time
L-Pro	NK-Z clip	\$249.00	20th Nov 2024
Clear Sky	NK-Z clip	\$99.00	20th Nov 2024
L-eXtreme	NK-Z clip	\$259.00	20th Nov 2024



L-Pro Filter Introduction:

Optolong L-Pro (L-Professional) filter is designed to improve the visibility of various deepsky objects. By selectively reducing the transmission of wavelengths of light pollutants, specifically those produced by artificial lightings including mercury vapor lamps, both high & low pressure sodium vapor lights and the unwanted natural light caused by neutral oxygen emission in our atmosphere (i.e. skyglow). Together with the highly transparent in main nebula emission lines at OIII(496nm and 500nm), H-beta (486nm), NII(654nm and 658nm), H-alpha(656nm) as well as SII(672nm), the filter is suitable for enhancing the contrast and details for both visual and photographic purpose at sub-rural area with heavy light pollution.

Optolong L-Pro is multi-bandpass filter which offers better color balance by maximizing the transmission band. The balanced transmission allows astrophotos to be taken with minimal color cast to broadband emission objects such as galaxies, reflection nebulae and globular star clusters. L-Pro is the best choice for light pollution suppression.

Main Use and Performance

Suitable for visual observation and astrophotography.

L-Pro filter has a very low transmission reduction rate against continuous spectrum space objects, and thus is quite effective in suppressing light pollution sources when shooting galaxies, reflection nebulae and globular star clusters. The same holds true for visual star observations.

L-Pro filter alone can suppress infrared wavelength, and thus can be used at ease for “L” image shootings with CCDs.

Light pollution filter do not eliminate the effects of light pollution or increase the object’s brightness. In many cases, they increase the contrast between nebula and night sky, not brightening the nebula.

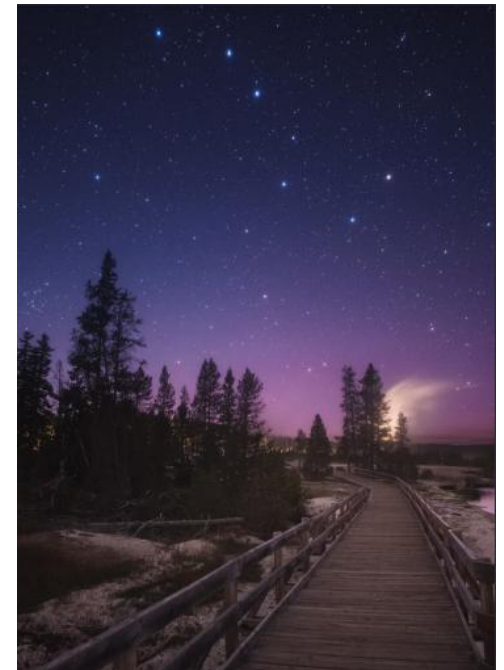


Clear Sky Filter Introduction

Optolong Clear Sky filter effectively blocks out the influence of city Na lamp and Hg mercury lamp. It would not only improve contrast, but would cause better color reduction as well.

Suitable for light pollution environment or bortle scale level1 to level 4.

It can also shoot city night scene. It belongs to a type of light pollution filter.





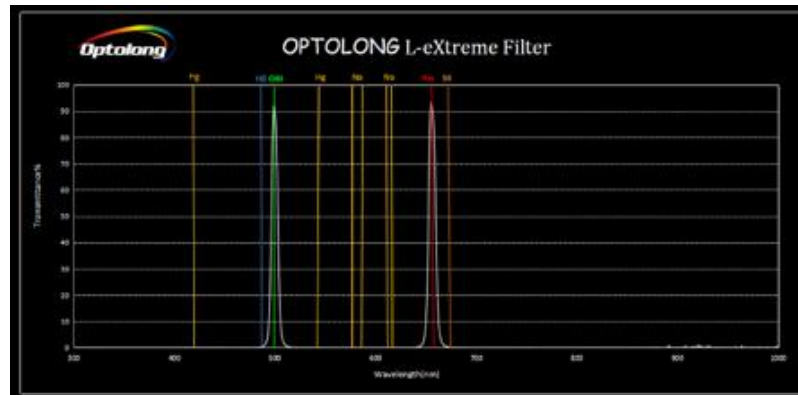
L-eXtreme Filter Introduction

Optolong L-eXtreme is a two 7nm bandpass filter which can be used with one-shot color cameras like DSLR's (digital SLR), and monochrome CCD cameras, it is also more suited for fast systems. The convenience and cost effectiveness of this filter allows amateurs to image a rich emission nebulae, even in bright, light pollution skies. Optolong believes the design of L-eXtreme filter would be a better choice for fast systems in competitive price. It isolates the H-Alpha, and Oxygen III nebula emission lines so that the contrast and signal-to-noise ratio between nebulae were maximized. For people who is living in very light polluted areas, or when the moon is out, the L-eXtreme will be a good filter.

The L-eXtreme filter is dual band that passes Ha and OIII emission lines. The advantage of the L-eXtreme filter is that there is no transmission between the H-beta and OIII lines, as there are no nebula emission lines there. In this case, it isn't letting light pollution come through so that maximize nebulae signal and make the sky background darker while imaging. The L-eXtreme filter should better isolate the emission lines only and better protect from light pollution.

Hydrogen is the largest, the most primitive, the simplest, and the oldest element in the universe. Scientists consider that Hydrogen amounts to more than 90% of visible substance in space. Our sun is 5 billion years old, but so far hydrogen is still the key matter of nuclear fusion. While the sulfur element does not have much scientific significance, so keeping H and O is meaning for exploration of life.

Therefore, we highlight H-a, H-b, O3 and O2, and reduce the signal of sulfur.



1. Camera Compatible Table

NK-Z Clip-in Filter Type	L-Pro、 Clear Sky、 L-eXtreme
Applicable Camera	Z5 / Z6 / Z6II / Z7 / Z7II / Z8 / Z9 / ZF
Supported Lens	All Z series Lens can be used All F series main and auxiliary lens can be used(connector shall be needed)

Note: ※ Due to limited lens resources, the test will focus on popular lenses. If you have other lens application information, please contact Optolong customer service personnel. We are very grateful for your valuable test data.

Because of the specialty of the mirrorless optical path and diaphragm design, as well as the reason of the incident angle of light, there may be slight vignetting interference when using an interference filter for shooting. L-Pro/L-eXtreme is recommended to be used with a focal length of 50mm or above, and if using a wide-angle lens, the interference edge needs to be cropped.

2. Installation Schematic Diagram

● Installation Schematic Diagram



Put the camera body flat, the top of the filter 'Optolong' should first into the body (as shown in Figure1), fixed by hand at the top, then press the spring piece at the bottom, move it upwards and fix the filter in the camera body by using spring force. (as shown in Figure2)

● Removing the Filter



Put the camera body flat, press the spring piece at the bottom of filter by your first two fingers, removable by removing upwards.

3. Packing

Packaging	
Outer Box	Silver Cardboard Box
Plastic Box	PP material
Lining	Imported high pressure white EVA material; High density sponge carton lining



4. NK-Z Filter Performance



Panoramic view of the Black Forest in southern Germany, taken at a focal length of 28mm. The Milky Way looks very pretty tonight, and we may even see some green air glow.

Equipment

Camera: Nikon z6 Mod

Lens: Sigma 28-45 f1.8 (adapted with a megadap Sony-E to Nikon-Z mount)

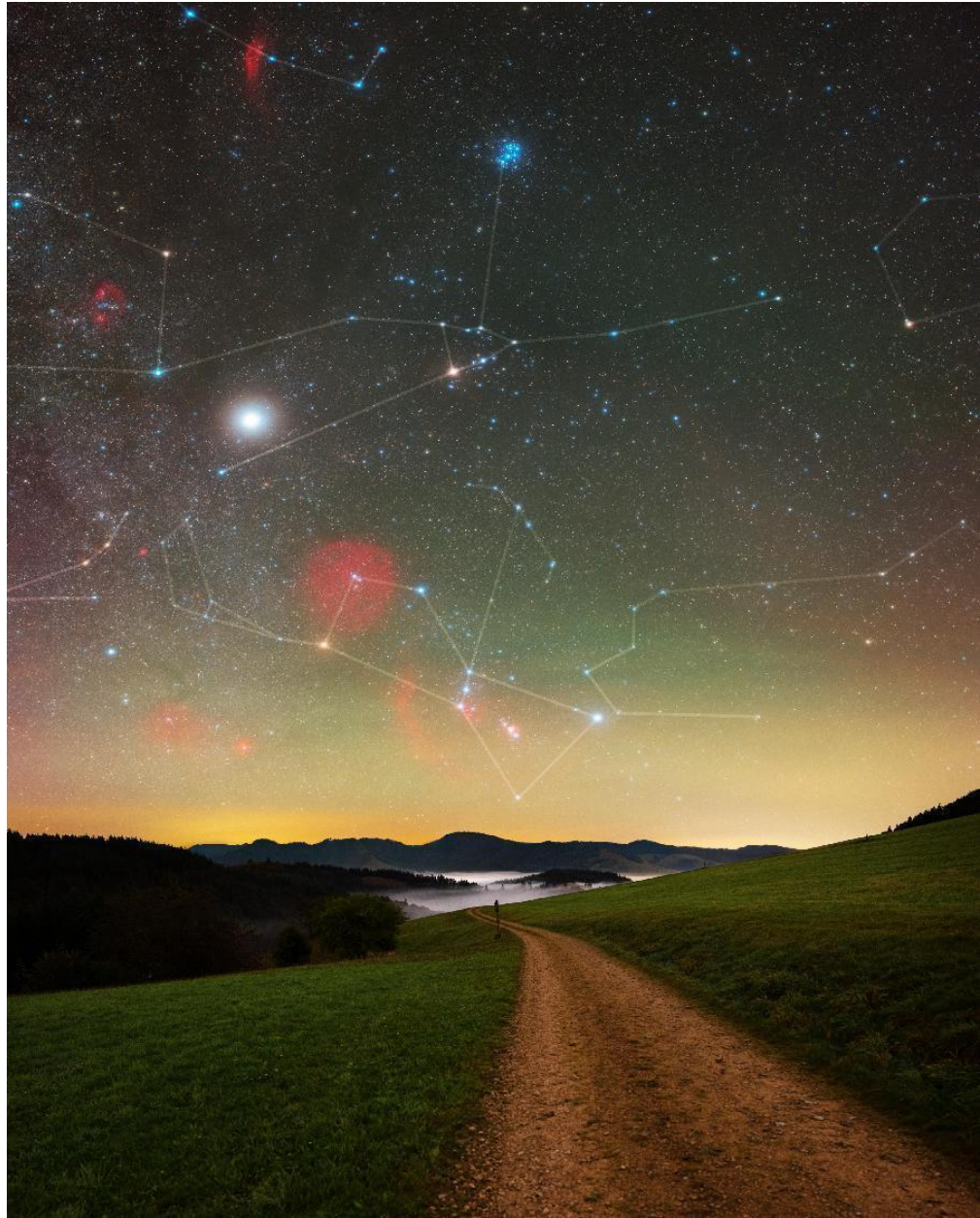
Filter: Optolong L-Pro NK-Z filter

Acquisition Details

Ground: 30seconds f3.2 ISO1600

Sky: 4x30seconds f1.8 ISO1600

Credit: Jakob Sahner



This is a panorama of three images showing the constellations rising in the east. The image highlights all the visible constellations.

Equipment

Camera: Nikon z6 Mod

Lens: Sigma 28-45 f1.8 (adapted with a megadap Sony-E to Nikon-Z mount)

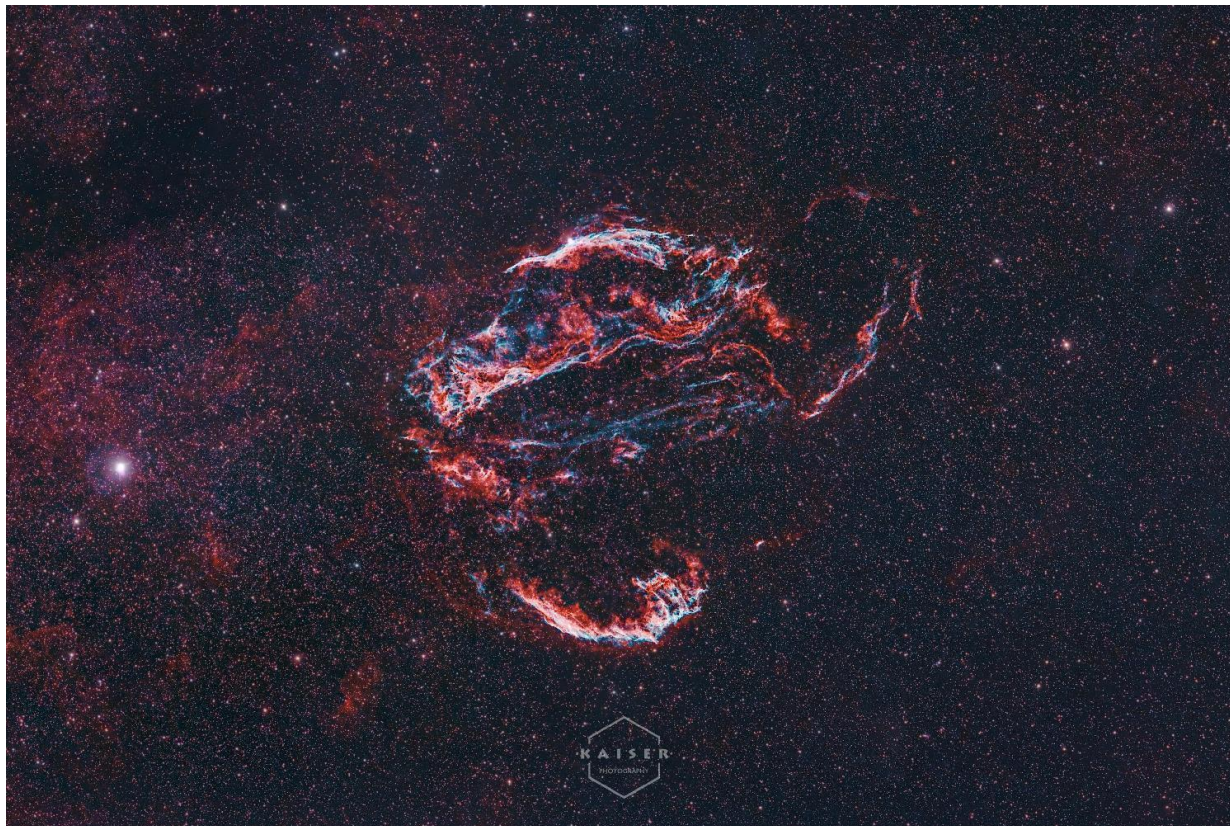
Filter: Optolong L-Pro NK-Z filter

Acquisition Details

Ground: 4x120seconds f3.2 ISO800

Sky: 8x30seconds f1.8

Credit: Jakob Sahner



Veil Nebula

Camera: Nikon ZF Mod

Lens: Nikon Z 135mm f/1.8

Filter: Optolong L-Pro NK-Z filter

Integration: 1.5h

Credit: 狂奔的茄子 (China)



Prompt Tips

- About color:** due to the influence of ambient light, color difference of the display and flash photography, the color of the product may have some color difference. Detailed color is in accordance with the final product.
- About coating:** the interference filter will show different colors under different light, which is a normal phenomenon. Please refer to the material object.
- About the style:** in order to improve the product, the change of design/appearance/parameters has not been updated in time. Please see the subject produce.
- About the description:** the series of this product have the same material, technology and design, different sizes only, please note.

Dear Dealers,

All filters introduction have already put into our homepage, which is helpful for customers understand the products before placing an order. We will not exchange or return the product if customer buy the wrong item due to your wrong description.

Thanks for your understanding and support!