

BAADER C-ERF FILTER



CAUTION!

"Baader C-ERF Filters" are used only for H α solar observing together with telescopes which are equipped with a "Solar Spectrum" H α filter! Never directly look at the sun through a telescope which has only the C-ERF filter mounted as protective device. Severe eye damage may occur!

The BAADER C-ERF filter is equipped with a proprietary IR-reflector coating. This additional 28-layer dielectric DWDM-coating delivers a "COOL"- beam of solemnly red light, only opening a spectral window of 45 nm HBW! This precaution has some very important effects:

- The IR reflective coating dramatically reduces the thermal energy that can reach through the telescope onto the Solar Spectrum filter. This prevents the Solar Spectrum filter from aging
- A dramatic reduction of heat stress within the telescope is occurring. This reduces seeing effects. Old style ERF-filters are transmitting all the energy in the IR, while absorbing the energy in the visual below 610 nm. The difference in heat buildup in a distance of 4" prior to focus between a regular ERF-filter and our C-ERF-filter is about 70 °C .
- There is no way anymore to damage the Solar Spectrum filter when using it in the wrong orientation. The Solar Spectrum filter itself has a blocker filter built into the front window, which at the same time performs as heat blocker . If the body of the unit is being connected to the telescope the wrong way around, all the IR-energy will right away enter into the elaborate stack of polarization filters and the etalon and - in the worst scenario - may melt the polarizers or boil up the immersion liquid inside.
- All these problems are completely absent with the use of our C-ERF pre-filter, because the light entering into the filter is "Cool" (hence the "C" in front of the ERF).

Usage:

The C-ERF has to be mounted at the front end of the telescope **WITH THE BLUE SHIMMERING SIDE FACING THE SUN!**

On some telescopes it is necessary to mount a mask in front of the CERF for reaching the f/30 focal ratio which is the optimum f ratio for Solar Spectrum H α filter

For more information on how to create an f/30 beam without sacrificing on your telescope's aperture (and resolution!) see the info on our telecentric beam correcting devices TZ-2 and TZ-4



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