

Infrared Filters



Call us for OEM versions

Infrared Filters are long-pass filters that block the visible light and pass IR light. They are characterized by their cut-on wavelength, typically the wavelength at which the transmission is 50% of the maximum. These filters use absorptive glasses, that are robust, cost-effective and insensitive to angle of incidence. In

machine vision, one of their typical applications, they are used in front of a lens on a CCD or CMOS camera when the image is to be taken at wavelength in the near infrared. These filters are available unmounted or in mounts with all common thread sizes.

Key Features

- Insensitive to angle of incidence
- Available in mounts with all common thread sizes
- Absence of vignetting due to large clear aperture

Applications

- Machine Vision and other imaging applications
- Night Vision
- Scientific & research measurement in the NIR

Technical Specifications¹

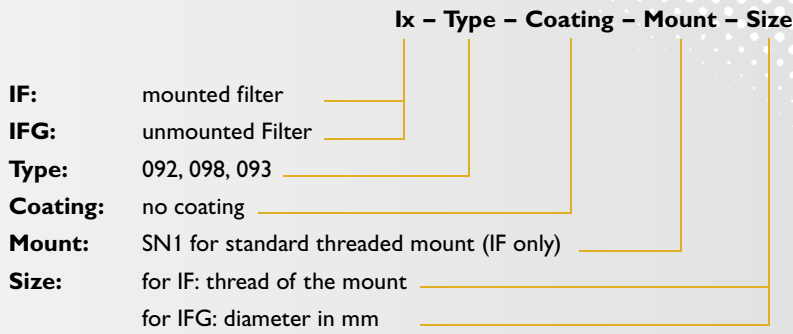
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Filter Type:			
Cut-on wavelength:	695 ± 10 nm	775 ± 10 nm	825 ± 10 nm
Surface:	5/2 × 0.16 ²	5/2 × 0.16 ²	5/2 × 0.16 ²
Wavefront distortion ³ :	1 λ	1 λ	1 λ
Parallelism:	1 arc minute	1 arc minute	1 arc minute
Diameter tolerance:	+ 0 - 0.3 mm	+ 0 - 0.3 mm	+ 0 - 0.3 mm
Thickness:	2.0 ± 0.3 mm	2.0 ± 0.3 mm	2.0 ± 0.3 mm

¹ Specifications for unmounted and uncoated versions

² Surface specification according to ISO 10110, quality usually similar to MIL 80-50 scratch-dig or better

³ Per 30 mm at 633 nm

ORDER INSTRUCTIONS:



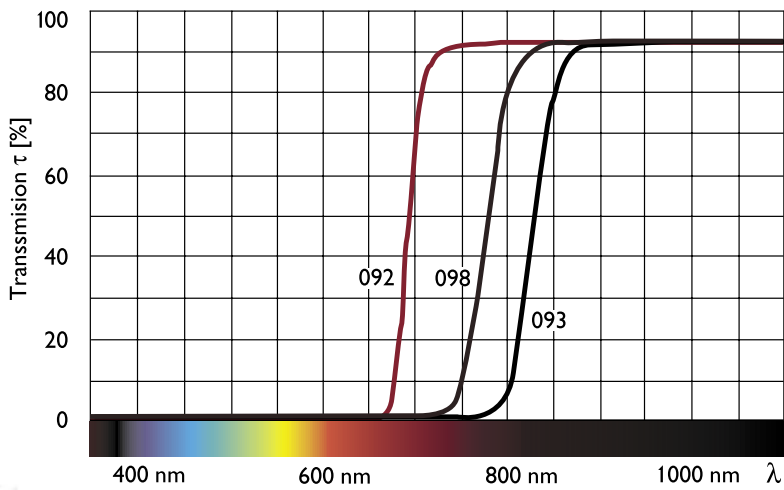
Examples:

IF – 098 – SN1 – 25.5

(mounted 098 filter with no coating for M25.5)

IFG – 093 – 30

(unmounted 093 filter with no coating, 30 mm diameter)



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