

Longpass Glass Absorption Filter Sets

We offer four sets of technical grade longpass absorption filters covering the UV to NIR spectral range. These filters transmit more than 80% of the light at 0° AOI and have no AR coating. These sets enable tailoring the passband to a specific machine vision application. Unlike interference filters, these filters enable large FOV, and are used to enhance contrast when the blue-shift effect is a problem. The filters can be supplied as round windows with a 12.5mm or 25mm diameter, or as 50mmX50mm square windows. There are four types of sets:

UV - 9 longpass filters 2mm thick: 220,240,260,280,300,320,340,360,380 nm.

LVR - 10 longpass filters 2mm thick: 400,420,450,470,490,510,535,550,565,580 nm

TVR - 9 longpass filters 2mm thick: 600,610,630,640,650,670,685,700,720 nm

NIR - 5 longpass filters 3mm thick: 760,780,800,830,850 nm

<p>Near Infra-Red Range Cut-On Absorption filter set 5 longpass glass filters in the 760-850nm spectral range Thickness: 3mm Round - 12.5\25mm Diameter or Square - 50mmX50mm 50% cut-on [nm]: 760,780,800,830,850</p>		<p><u>Specific Tolerances:</u> Cut-on slope [%T/nm]: 1.1 - 1.6 50% cut-on [nm]: +/-10 Max. Transmittance: > 80%</p> <p><u>General Tolerances:</u> Thickness [mm]: +/- 0.05 Outer dimensions [mm]: +0.0/-0.1 Parallelism [arcmin]: <5 Finish (S-D): 60-40 Flatness: 1/4 Lambda</p>
CSTM P/N	Description	
FS-NIR-CO-12.5D-G	12.5mm Dia. X 3mm Thick - 5 longpass filters covering the 760-850nm spectral range	
FS-NIR-CO-25D-G	25mm Dia. X 3mm Thick - 5 longpass filters covering the 760-850nm spectral range	
FS-NIR-CO-50S-G	50mm X 50mm X 3mm Thick - 5 longpass filters covering the 760-850nm spectral range	

