

# Capabilities



## UV bandpass filters

Knight Optical offer extensive custom options for UV bandpass filters, and we supply colour glass and interference bandpass types from stock.

Bandpass filters isolate a desired bandwidth while blocking higher and lower wavelengths.



Colour glass UV filters are cost effective and stable, and are easy to cut and shape to unique sizes. Filters are manufactured from colour glass and designed to work between 320nm to 390nm.

Interference bandpass filters offer higher precision for optical systems. These are typically supplied mounted and made to a 3-7 cavity design, with OD4 or better out of band blocking.

### Custom capabilities (Colour glass)

<b>Diameter (mm)</b>	5mm to 250mm+
<b>Length/width (mm)</b>	5mm to 300mm
<b>Thickness (mm)</b>	Typically 3mm
<b>Dimensional tolerance (mm)</b>	+/-0.05
<b>Flatness (fr.)</b>	<2
<b>Scratch/Dig</b>	< 10:5

### Custom capabilities (Interference bandpass)

<b>Diameter (mm)</b>	12.5mm to 100mm+
<b>Thickness (mm)</b>	Ask for more details
<b>Dimensional tolerance (mm)</b>	+/-0.05
<b>CWL/FWHM tolerance (nm)</b>	< 20% of FWHM
<b>Cavities</b>	3-7
<b>Scratch/Dig</b>	< 10:5

All products are tested in our state of the art metrology laboratory by our highly trained technicians to ensure compliance with the specification. Parts are then sent to our QA team to be cleaned and checked for surface imperfections before dispatch.

Please contact our technical sales team on (+44) 1622 849 444 to discuss your custom UV bandpass filter requirements and discover how Knight Optical can help improve your supply chain experience. Alternatively, email us your requirements by clicking on the links below.

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