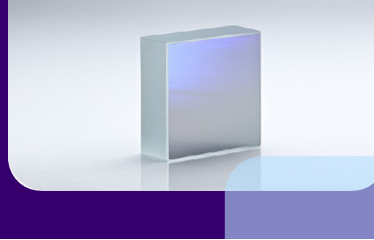


Transmissive Diffraction Gratings



Transmissive Diffraction Gratings are an optical component designed to separate incident light into its constituent wavelengths via diffraction.

Manufactured in our dedicated lithography department, a substrate is etched with periodic grooves which diffract the light into multiple diffraction orders. With UV to IR capabilities, Knight Optical will work with you on your enquiry to achieve the optimum grating for your application.

BENEFITS

- Less sensitive to alignment errors which can simplify assembly and integration
- Can be manufactured using wavelength specific materials, including UV fused silica for UV applications
- Ideal in a compact system within an inline optical layout
- High diffraction efficiency in multiple orders

CAPABILITIES

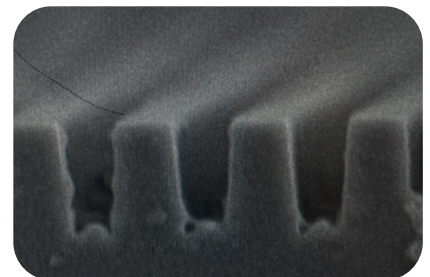
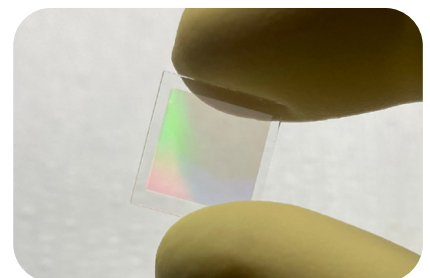
Type	Square wave (laminar) gratings
Materials	UV Fused Silica, Silicon
Dimensions	5mm to 100mm
Coating	AR coating on rear surface to optimise performance

INDUSTRIES

- Scientific
- Medical
- Aerospace
- Laser

APPLICATIONS

- Spectroscopy
- Optical Coherence Tomography
- Astronomy
- Optical Communications



Contact our technical sales team to learn more about how our transmissive diffraction gratings can meet your custom specifications.