



VOLUME PHASE HOLOGRAPHIC TRANSMISSION GRATINGS

HD 1800 l/mm at 840 nm

These HD 1800 l/mm gratings are popular for optical coherence tomography (OCT) and other applications around 840 nm. These gratings exhibit wider bandwidth than other gratings with similar dispersion. With peak diffraction efficiencies above 78% they conserve much of the light for broadband applications. These gratings are exposed using well-collimated laser light in dichromated gelatin. After processing, the gratings are capped with protective glass covers and then AR coated. The resulting gratings exhibit low scatter, high diffraction efficiency, high dispersion, and low wavefront distortion in an extremely durable package. They can be cleaned using the same methods used to clean AR coated lenses and prisms.

SPECIFICATIONS

2 inch round gratings

Substrate and Capping Glass:	3mm B270
Wavefront distortion:	< 1/2 wave rms at 632.8 nm over 1"
Spatial Frequency:	1800 l/mm +/- 2 l/mm
Clear Aperture:	42.8 mm diameter
Optical Ring Outer Diameter	50.8 mm diameter
Optical Ring Thickness	6.6 mm
Coating:	AR coated

Transmission Grating Geometry

