

# HD 1450 l/mm @ 1050 nm

## VPH transmission grating for OCT



### PERFORMANCE BENEFITS

Excellent 1<sup>st</sup> order diffraction efficiency for greater sensitivity and faster scan rates

Superior uniformity over the full spectral band for better SNR and axial resolution

Minimal polarization sensitivity across wavelength

Low wavefront error to reduce roll-off

Robust, durable optic for easy cleaning & handling

Enables compact, transmissive optical designs

### Maximize your sensitivity and scan speed with our patented grating designs

The clearest, deepest spectral domain optical coherence tomography (SD-OCT) images require an optical design that covers a broad bandwidth with maximum signal to noise ratio (SNR). That's why we developed our OCT gratings to have high efficiency and low polarization dependence across the full operating wavelength range. Choose from our range of stock gratings, or draw on our expertise in OCT to design your ideal grating. Place our VPH gratings at the heart of your OCT spectrometer or system and achieve clearer images, faster.

Because light is precious

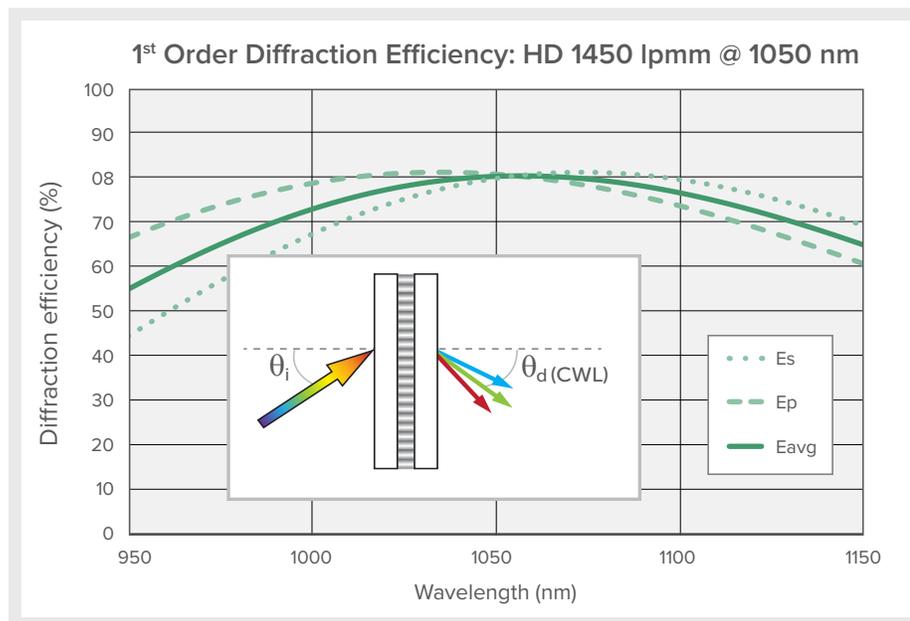


# VPH Grating: HD 1450 l/mm @ 1050 nm

## STANDARD PRODUCT SPECIFICATIONS & OPTIONS

Standard sizes and specifications for this grating are shown below. Don't see what you need? Let our expert staff design and build a custom grating to meet the needs of your specific application and optical design.

	WP-HD1450/1050-35x45
Center Wavelength (CWL)	1050 nm
Spatial Frequency (lines/mm)	1450 l/mm +/- 0.5 l/mm
Operating Range	950 - 1150 nm
Angle of Incidence ( $\theta_i$ )	49.6° @ 1050 nm
AR coating	< 0.5% reflection, 950 - 1150 nm
Surface Quality	60-40 scratch-dig
Diffraction Wavefront Error	< $\lambda/5$ rms @ 633 nm over 1" $\varnothing$
Substrate	BK7
Chamfers	0.25-0.75mm face width
Size	35 x 45 mm
Size Tolerance	+0/-0.15 mm
Thickness	6 ± 0.25 mm
Clear Aperture	30 x 40 mm



Customization available upon request

WP-PS\_1450l/mm-1050nm\_14Sep20

