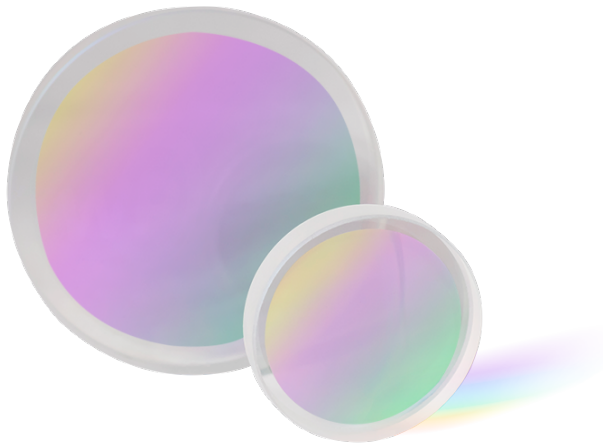


# 600 l/mm @ 600 nm

## VPH transmission grating for spectroscopy



### PERFORMANCE BENEFITS

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

More uniform response over broad bandwidths for better SNR, reduced spectral correction

Minimal polarization sensitivity across wavelength

Near-zero ghosting & scatter – less stray light

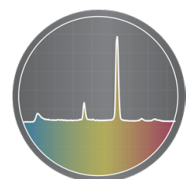
Robust, durable optic for easy cleaning & handling

Enables compact, transmissive optical designs

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

Our VPH gratings are unsurpassed for general spectroscopy and low light applications like fluorescence and Raman spectroscopy, delivering up to 40% more efficiency than surface relief gratings. Our proprietary process encapsulates the grating structure in a robust package, facilitating easy cleaning & handling during system build. We use patented and proprietary optical designs to cover broad bandwidths with low polarization dependence, giving you maximum signal to noise ratio (SNR). Choose from our range of stock gratings, or draw on our expertise to design your ideal grating. Place our VPH gratings at the heart of your spectrometer or system to collect better spectra, faster.

Because light is precious

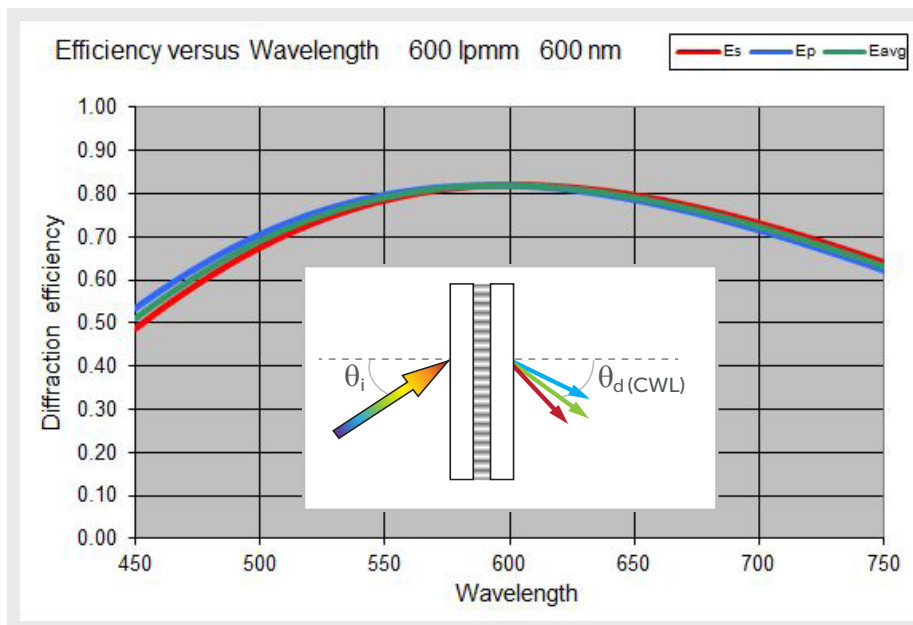


# VPH Grating: 600 l/mm @ 600 nm

## 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-600/600-25.4	WP-600/600-50.8
Center Wavelength (CWL)	600 nm	
Spatial Frequency (lines/mm)	600 l/mm +/- 0.5 l/mm	
Operating Range	450 - 750 nm	
Angle of Incidence ( $\theta_i$ )	10.4° @ 600 nm	
AR coating	Optimized for the specified wavelength range & AOI	
Surface Quality	60-40 scratch-dig	
Diffacted Wavefront Error	< $\lambda/5$ rms @ 633 nm over 1" $\varnothing$	
Substrate	BK7	
Chamfers	0.25-0.75 face width	
Size	$\varnothing=25.4$ mm	$\varnothing=50.8$ mm
Size Tolerance	+0/-0.15 mm	+0/-0.15 mm
Thickness	3 ± 0.25 mm	6 ± 0.25 mm
Clear Aperture	20 mm	45 mm



Customization available upon request

WP-PS\_600l/mm-600nm\_RevA

