Wasatch Photonics

800 l/mm @ 1030 nm

VPH transmission grating for laser pulse compression

PERFORMANCE BENEFITS

- 1st order diffraction efficiency >>90%
- High transmission over the full spectral band
- Low diffracted wavefront error, minimal scatter
- Uniform diffraction efficiency over the full clear aperture for minimal beam distortion
- Ideal for high pulse energy applications
- Robust, durable optic for easy cleaning & handling
- Maximum optical design flexibility

Get the shortest, cleanest pulses possible in a robust grating design

Wasatch Photonics' enhanced volume phase holographic (VPH) gratings are exceptional for pulse compression and pulse stretching of high power ultrafast lasers. Our ultraclear transmissive gratings have the highest efficiency on the market, with virtually no ghosting or scatter. Unlike surface relief gratings, our laser pulse compression gratings can be easily cleaned and handled. Choose from our range of stock gratings, or contact us to discuss custom OEM designs and materials. We are your partner, from small quantity prototyping through to volume production.

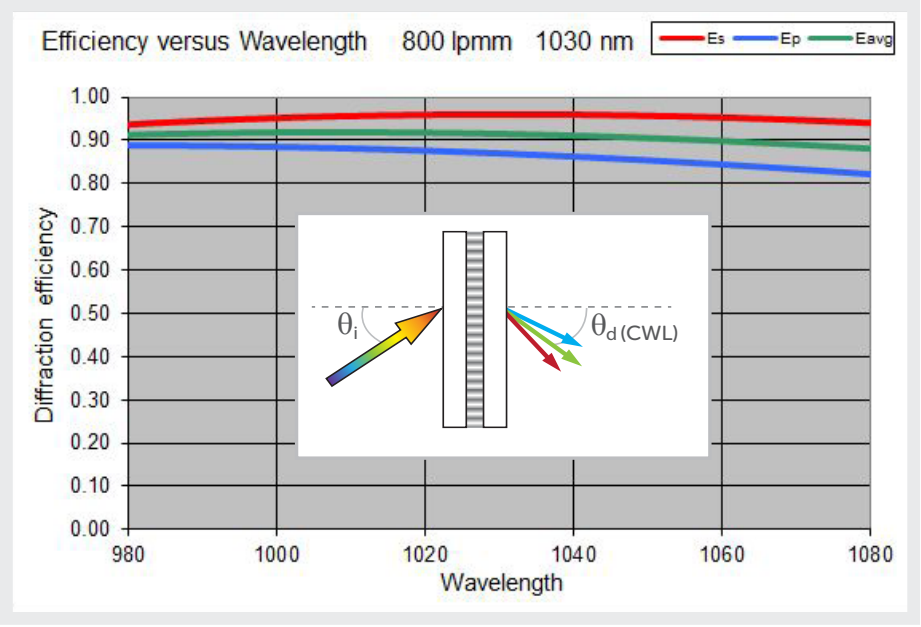
Because light is precious

VPH Grating: 800 l/mm @ 1030 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-800/1030-25x35	WP-800/1030-30x45
Center Wavelength (CWL)	1030 nm	
Spatial Frequency (lines/mm)	800 l/mm +/- 0.5 l/mm	
Operating Range	980 - 1080 nm	
Angle of Incidence (θ_i)	24.3° @ 1030 nm	
AR coating	Optimized for the specified wavelength range & AOI	
Surface Quality	60-40 scratch-dig	
Diffracted Wavefront Error	< λ/5 rms @ 633 nm over 1" Ø	
Substrate	BK7	
Chamfers	0.25-0.75 face width	
Size	25 x 35 mm	30 x 45 mm
Size Tolerance	+0/-0.15 mm	+0/-0.15 mm
Thickness	4 ± 0.25 mm	6 ± 0.25 mm
Clear Aperture	10 x 19 mm	24 x 39 mm



Customization available upon request

WP-PS_800lpmm-1030nm_RevA