

Polarizer Selection Chart

Linear						
Polarizer Type	Page	Product Features	Wavelength Range			
			500	1000	1500	2000
Precision Dichroic	6	<ul style="list-style-type: none"> • custom shapes and large apertures available • ultraviolet, visible, near infrared versions • most economical linear polarizer choice • limited power handling capability 				
High Contrast	8	<ul style="list-style-type: none"> • high contrast • high transmission • wavelength-specific design 				
Ultra-High Contrast	9	<ul style="list-style-type: none"> • broad spectral performance • high temperature resistance • highest available contrast ratio • excellent ultraviolet product option 				
Glan-Thompson	18	<ul style="list-style-type: none"> • excellent extinction ratio • broad spectral performance • multilayer BBAR coatings also available 				
Beamsplitting						
VersaLight	11	<ul style="list-style-type: none"> • broad spectral performance • specularly reflective operation • high power handling capability • visible and near infrared versions • up to 170 mm apertures available 				
Laser Line	13	<ul style="list-style-type: none"> • high contrast • low reflectance • high damage threshold 				
Broadband	15	<ul style="list-style-type: none"> • high contrast • high damage threshold • broad spectral performance 				
Circular						
Dichroic Circular	20	<ul style="list-style-type: none"> • high isolation • large diameters available • achromatic versions for broadband performance 				
Beam Separator	21	<ul style="list-style-type: none"> • high isolation • excellent wavefront quality • robust opto-mechanical design 				

standard products custom options

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Reflectance (maximum per surface)	Beam Deviation (maximum)	Transmitted Wavefront Distortion (maximum at 632.8 nm)	Acceptance Angle	Clear Aperture (diameter)
UV: ~4.25% VIS: 0.50% NIR: 0.50%	UV: 2 arc min VIS: 1 arc min NIR: 2 arc min	UV: $\lambda/2$ VIS: $\lambda/5$ NIR: $\lambda/2$	$\pm 10^\circ$	0.40, 0.70, 0.80, 1.20 in.
0.50%	3 arc min	$\lambda/4$	$\pm 5^\circ$	0.40, 0.70 in.
~4% (uncoated)	5 arc min	1λ per 10mm diameter	$\pm 5^\circ$	0.40, 0.70, 0.80 in.
~1.50% (coated) ~4.50% (uncoated)	3 arc min	λ	$\pm 5^\circ$	5, 8, 10 mm
Beamsplitting				
1.50%	1 arc min	UV: $\lambda/4$ per inch NIR: 5 λ per inch IR: 5 λ per inch	$\pm 45^\circ$	0.40, 0.80 in.
0.25%	Trans: 3 arc min Ref: 6 arc min	$\lambda/5$	$\pm 2^\circ$	0.40, 0.80 in.
0.50%	Trans: 3 arc min Ref: 6 arc min	$\lambda/5$	$\pm 2^\circ$	0.40, 0.80 in.
Circular				
0.50%	VIS: 1 arc min NIR: 2 arc min	VIS: $\lambda/5$ NIR: $\lambda/2$	$\pm 2^\circ$	0.40, 0.70, 0.80, 1.20 in.
0.50%	3 arc min	$\lambda/5$	$\pm 2^\circ$	0.40, 0.80 in.

Polarizer and Retarder sets available, see page 42.