













	POLARIZER	FEATURES	WAVELENGTH	CONTRAST RATIO	*TWD (P-V)	ACCEPTANCE ANGLE	BEAM DEVIATION
Linear		Precision <ul style="list-style-type: none"> • Custom shapes and large apertures available • Ultraviolet, visible, near infrared versions • Most economical linear polarizer choice 	UV – NIR	UV: up to 500:1 VIS: up to 30,000:1 NIR: up to 10,000:1	UV: $\leq \lambda/2$ VIS: $\leq \lambda/5$ NIR: $\leq \lambda/2$	$\pm 10^\circ$	UV: ≤ 2 arc min VIS: ≤ 1 arc min NIR: ≤ 2 arc min
		High Contrast <ul style="list-style-type: none"> • High contrast • High transmission • Wavelength-specific design 	650 – 950 nm	up to 10,000:1	$\lambda/4$	$\pm 5^\circ$	≤ 3 arc min
		**Ultra High Contrast <ul style="list-style-type: none"> • Spectral performance - good • High temperature resistance • Highest available contrast ratio • Excellent ultraviolet product option 	UV – MWIR	up to 10,000,000:1	UV: 1λ per 10 mm dia. VIS: 1λ per 10 mm dia. IR: 1λ per 10 mm dia. MWIR: design dependent	$\pm 5^\circ$	≤ 5 arc min
		Glan-Thompson <ul style="list-style-type: none"> • Excellent extinction ratio • Spectral performance - better • Multilayer BBAR coatings also available 	UV – NIR	100,000:1 over central 2/3 of clear aperture	N/A	$\pm 5^\circ$	≤ 3 arc min
		Ultra Broadband <ul style="list-style-type: none"> • Extremely broadband - best • Wide acceptance angle • Excellent transmitted contrast • Thin, compact design 	UV – NIR	up to 1,000,000:1	$\leq 3.5 \lambda$ per in.	$\pm 40^\circ$	≤ 10 arc min
		MWIR <ul style="list-style-type: none"> • Excellent contrast ratio • Thin profile • High transmission • Custom apertures > 2 inches available 	MWIR – LWIR (3 – 6 μm)	up to 25,000:1	11.5λ per in. (at 4 μm)	$\pm 20^\circ$	≤ 2 arc min
Beamsplitting		Wiregrid Plate <ul style="list-style-type: none"> • Broad spectral performance • Specularly reflective operation • High power handling capability • Visible and near infrared versions 	FS: UV – NIR Eagle: VIS – NIR	2,000:1 (typical transmission)	FS: $\sim \lambda/4$ per in. Eagle: $\sim 5 \lambda$ per in.	$\pm 40^\circ$	≤ 1 arc min
		ICE Cube Wiregrid Beam Splitter <ul style="list-style-type: none"> • 420 to 2600 nm • Wide acceptance angle • Excellent transmitted contrast 	420 – 700 nm	10,000:1 (typical transmission)	$\leq \lambda/3$ (transmitted)	$\pm 25^\circ$	≤ 5 arc min
		Laser Line Beam Splitter <ul style="list-style-type: none"> • High contrast • Low reflectance • High damage threshold options available 	VIS – NIR	up to 1,000:1 (typical transmission)	$\leq \lambda/4$ (surface flatness)	$\pm 2^\circ$	≤ 3 arc min
		Broadband Beam Splitter <ul style="list-style-type: none"> • High contrast • High damage threshold options available • Broad spectral performance 	VIS – NIR	up to 500:1 (typical transmission)	$\leq \lambda/8$ (surface flatness)	$\pm 2^\circ$	≤ 3 arc min
Circular		Dichroic Circular <ul style="list-style-type: none"> • High isolation • Large diameters available • Achromatic versions for broadband performance 	VIS – NIR (specify wavelength)	N/A	VIS: $\leq \lambda/5$ NIR: $\leq \lambda/2$	$\pm 10^\circ$	VIS: ≤ 1 arc min NIR: ≤ 2 arc min
		Beam Separator <ul style="list-style-type: none"> • High isolation • Excellent wavefront quality • Robust opto-mechanical design 	VIS – NIR	N/A	$\leq \lambda/5$ (transmitted)	$\pm 2^\circ$	≤ 3 arc min

*Meadowlark Optics chooses to specify Transmitted Wavefront Distortion as Peak-to-Valley (P-V). We believe P-V more accurately reflects the high and low points of the surface vs. RMS which uses an average.

**Ultra High Contrast Polarizers are sold laminated. If unlaminated is desired, please contact a Solutions Engineer for a custom quote.