Why Choose Meadowlark Polarizers?

Wide Range of Options – This selection chart provides an at-a-glance view of our standard polarizers broken down into Circular, Linear and Beam splitting categories.

Broad Wavelength Capabilities – Our standard polarizers are designed for use in the 220-nm to 6-micron range (with custom options up to 15 microns.)

High Quality and Precision – Meadowlark Optics is proud to continue providing our customers with industry-leading specifications including excellent surface quality, high extinction ratio, low transmitted wavefront distortion, and more.

Custom Solutions – Prism clusters, attached retarders, odd shapes and sizes – while we are delighted to provide you one of our standard components or systems, we are just as happy to customize a solution that more exactly fits your needs.

About Meadowlark Optics

Innovating since 1979 – Meadowlark Optics has provided world-class polarization optics and liquid crystal solutions for a variety of applications for 46 years. To ensure precision and top quality, our 30,000 SF headquarters and manufacturing facility boasts the latest in clean rooms, optical fabrication, and metrology equipment. Need help selecting the right product for your application? Contact one of our Solutions Engineers to discuss your requirements.

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POLARIZERS

SELECTION GUIDE

POLARIZERS • SPATIAL LIGHT MODULATORS • WAVEPLATES • LIQUID CRYSTAL DEVICES • OTHER CAPABILITIES

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Celebrating 46 Years of Photonics Innovation

	POLARIZER	FEATURES	WAVELENGTH	CONTRAST RATIO	*TWD (P-V)	ACCEPTANCE ANGLE	BEAM DEVIATION
LINEAR	 **Precision**	•Custom shapes & large apertures available •Ultraviolet, visible, near infrared versions •Most economical absorptive linear polarizer	UV – NIR 300 – 1700 nm	UV: up to 500:1 VIS: up to 30,000:1 NIR: up to 10:000:1	UV: ≤ λ/2 VIS: ≤ λ/5 NIR: ≤ λ/2	± 10°	UV: ≤ 2 arc min VIS: ≤ 1 arc min NIR: ≤ 2 arc min
	 **High Contrast**	•High contrast •High transmission •Wavelength-specific design	VIS – NIR 650 – 1580 nm	up to 10,000:1	λ/4	± 5°	≤ 3 arc min
	 ****Ultra High Contrast**	•Spectral performance - **good** •High temperature resistance •Highest available contrast ratio •Excellent ultraviolet product option	UV – MWIR 362 – 5000 nm	up to 10,000,000:1	UV: 1 λ per 10 mm dia. VIS: 1 λ per 10 mm dia. IR: 1 λ per 10 mm dia. MWIR: design dependent	± 5°	≤ 5 arc min
	 **Glan-Thompson**	•Excellent extinction ratio •Spectral performance - **better** •Multilayer BBAR coatings also available	UV – NIR 320 – 2300 nm	100,000:1 over central 2/3 of clear aperture	N/A	± 5°	≤ 3 arc min
	 **Ultra Broadband**	•Extremely broadband - **best** •Wide acceptance angle •Excellent transmitted contrast •Thin, compact design	UV – NIR 300 – 2700 nm	up to 1,000,000:1	≤ 3.5 λ per in.	± 40°	≤ 10 arc min
	 **MWIR**	•Excellent contrast ratio •Thin profile •High transmission •Custom apertures > 2 inches available	MWIR – LWIR (3 – 6 µm)	up to 25,000:1	λ1.5 λ per in. (at 4 µm)	± 20°	≤ 2 arc min
	 **Wiregrid Versalight™ Plate**	•Broad spectral performance •Specularly reflective operation •High power handling capability •Custom apertures and sizes ≤ 6 inches	FS: UV – NIR Eagle: VIS – NIR 325 –2500 nm	2,000:1 (typical transmission)	FS: ~ λ/4 per in. Eagle: ~ 5 λ per in.	± 40°	≤ 1 arc min
BEAMSPLITTING	 **ICE Cube™ and Versalight™ Wiregrid Beam Splitters**	•420 to 2600 nm •Wide acceptance angle •Excellent transmitted contrast	ICE Cube™: VIS (420 – 700 nm) Versalight™: VIS - NIR (420 – 2600 nm)	10,000:1 (typical transmission)	≤ λ/3 (transmitted)	± 25°	≤ 5 arc min
	 **Laser Line Beam Splitter**	•High contrast •Low reflectance •High damage threshold options available	VIS – NIR 400 – 1600 nm	up to 1,000:1 (typical transmission)	≤ λ/4 (surface flatness)	± 2°	≤ 3 arc min
	 **Broadband Beam Splitter**	•High contrast •High damage threshold options available •Broad spectral performance	VIS – NIR 440 – 1600 nm	up to 500:1 (typical transmission)	≤ λ/8 (surface flatness)	± 2°	≤ 3 arc min
CIRCULAR	 **Dichroic Circular**	•High isolation > 99.8 % •Large diameters available •Achromatic versions for broadband performance	VIS – NIR 400 – 1600 nm (specify wavelength)	N/A	VIS: ≤ λ/5 NIR: ≤ λ/2	± 10°	VIS: ≤ 1 arc min NIR: ≤ 2 arc min
	 **Beam Separator**	•High isolation •Excellent wavefront quality •Robust opto-mechanical design	VIS – NIR 400 – 1600 nm	N/A	≤ λ/5 (transmitted)	± 2°	≤ 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.

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