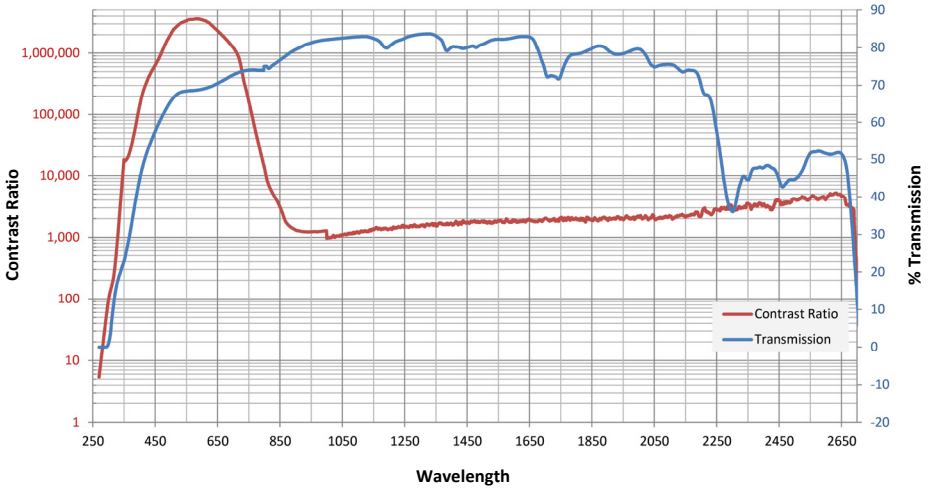
Ultra Broadband Polarizer

Meadowlark Optics now offers an extremely broadband polarizer solution with up to 1,000,000:1 contrast ratio. Our new Ultra Broadband Polarizer performs well over a wavelength range of 300 to 2700 nm, rivaling the span of a Glan-Thompson calcite polarizer in a thin, compact design.

The proprietary composition of the Ultra Broadband Polarizer allows for an unprecedented width of spectral range at a fraction of the cost of other competing polarizers. This cost savings is coupled with a mount thickness of only 0.182" and high contrast over the entire range from UV to MWIR. Its wide acceptance angle, remarkably larger possible clear aperture, and compact, light-weight design allow for versatility in complex or space-limited optical setups. Ask about Meadowlark's wide range of custom options available.

Ultra Broadband Polarizer Contrast and Transmission vs. Wavelength (nm)



Typical transmission (blue) and Contrast (red) vs. Wavelength over the useable wavelength range of an uncoated part.



Key Features

- Extremely broadband
- Wide acceptance angle
- Custom sizes and shapes
- Excellent transmitted contrast
- Thin, compact design

Polarization Suite

Linear Polarizers

Precision Linear Polarizer
High Contrast Linear Polarizer
Ultra-High Contrast Linear Polarizer
Glan-Thompson Polarizer
Ultra Broadband Polarizer
MWIR Polarizer
Deep Ultraviolet Polarizer

Beamsplitting Polarizers

Wire Grid Versalight Polarizer
Wire Grid Versalight Beam Splitter
Laser Line Beamsplitting Polarizer
Broadband Beamsplitting Polarizer
Polarizing Bandpass Filter

Circular Polarizers

Dichroic Circular Polarizer
Beam Separator

SPECIFICATIONS	
Stock Version	
Substrate Material	UV Grade Fused Silica
Wavelength Range	300 – 2700 nm (uncoated)
Transmitted Wavefront Distortion *(Custom options available for improvement of TWD)*	≤ 3.5 λ per inch (P-V @ 633 nm) ≤ 1 λ per inch (RMS @ 633 nm)
Acceptance Angle	± 40˚
Surface Quality	80 – 50 scratch-dig
Laser Damage Threshold *(if oriented in preferred direction)*	0.80 J/cm^2 at 355 nm 0.20 J/cm^2 at 532 nm 0.30 J/cm^2 at 1064 nm
Operating Temperature	-50˚C to + 50˚C
Polarizer Thickness	~0.087 in.
Mount Thickness	0.182 in.
Custom Options	
Size	0.5” – 4.0”
Shape	Customer specified

AR Coatings available. Please contact your Meadowlark Optics Sales Engineer for more information.

ORDERING INFORMATION		
Diameter in. (mm)	***Clear Aperture in. (mm)***	***Part Number***
Ø1.00 (25.4 mm)	Ø0.75 (19.3 mm)	GPM – 100 – UNC
Ø1.50 (25.4 mm)	Ø1.25 (32.0 mm)	GPM – 150 – UNC
Ø2.00 (50.8 mm)	Ø1.75 (44.7 mm)	GPM – 200 – UNC

The standard sizes and specifications listed are only our most typically manufactured with many custom possibilities available.

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