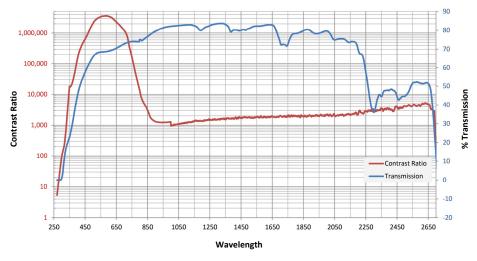
# meadowlark optics

# **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**

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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/cm² at 355 nm 0.20 J/cm² at 532 nm 0.30 J/cm² 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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