

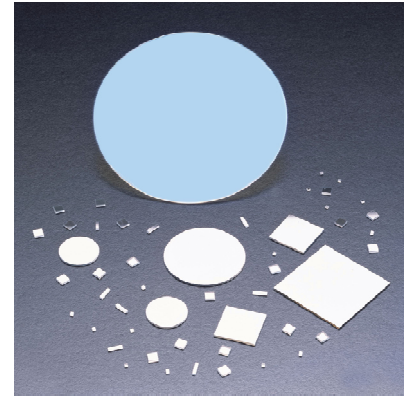
Deep Ultraviolet Polarizer

Meadowlark Optics is pleased to offer several polarizer and retarder options that work in the ultraviolet region of the light spectrum.

Developed for wavelengths between 245 and 285 nm, the Deep Ultraviolet Polarizer is ideal for applications around 266 nm. Additionally, this polarizer is transparent in the visible range, allowing visible light to easily pass through.

The UV Polarizer has a proprietary structure that allows for a high laser damage threshold. A few of the applications where DUV polarizers are used include: DUV lithography and metrology, UV laser optics, semiconductor wafer processing, surface polarimetry, astronomical polarimetry, and liquid crystal photo alignment.

Custom shapes and sizes are possible due to the large manufactured substrates. Please contact your Meadowlark Optics Sales Engineer for assistance with your custom needs.



Key Features

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245 to 285 nm

Wire grid polarizer

High damage threshold

Transmission of > 60%

Contrast Ratio up to 150:1

Polarization Suite

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Linear Polarizers

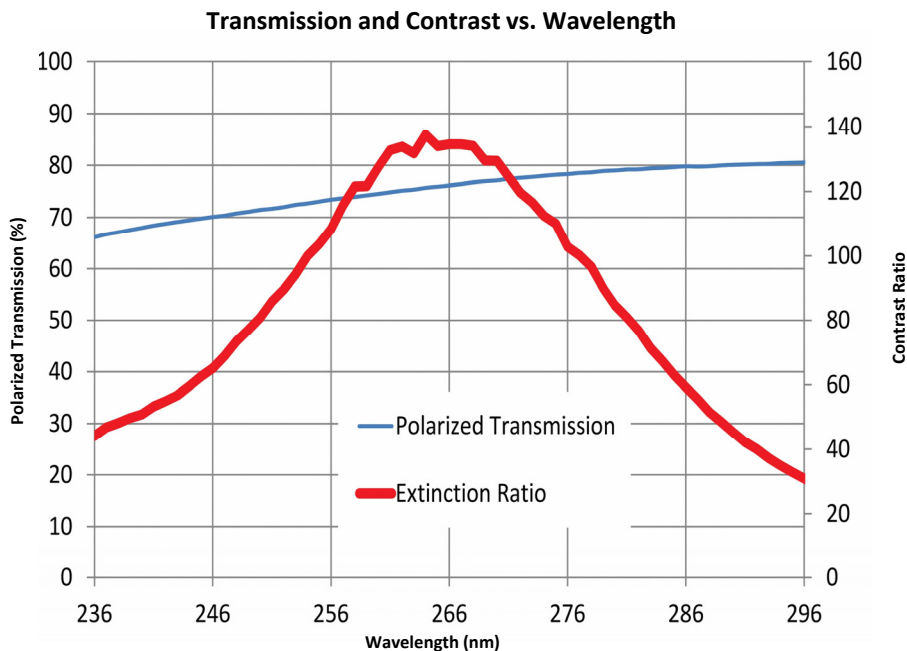
- Precision Linear Polarizer
- High Contrast Linear Polarizer
- Ultra-High Contrast Linear Polarizer
- Glan-Thompson Polarizer
- Ultra Broadband Polarizer
- MWIR Polarizer
- Deep Ultraviolet Polarizer

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



Typical measured contrast (red) and transmission (blue) over relevant wavelength range.



SPECIFICATIONS

Substrate Material	Fused Silica, 1.0 mm thick
Wavelength Range	245 – 285 nm
Transmitted Wavefront Distortion	≤ λ/2 (P-V @ 633 nm) ≤ λ/8 (RMS @ 633 nm)
Surface Quality	40 – 20 scratch-dig
Beam Deviation	≤ 5 arc min
Acceptance Angle	0° ± 6°
Operating Temperature	- 40°C to + 80°C

Customs sizes and shapes are available.

Please contact your Meadowlark Optics Sales Engineer for more information.

ORDERING INFORMATION

Mounted Square		
<i>Dimensions in. (mm)</i>	<i>Clear Aperture in. (mm)</i>	<i>Square Part Number</i>
Up to 2.00 (50.8 mm)	Up to 1.20 (30.5 mm)	DUV – 050 – 0266S
Unmounted Square		
0.50 (12.7 mm)	0.40 (20.3 mm)	DUV – 100 – 0266S
1.00 (50.8 mm)	0.80 (20.3 mm)	DUV – 100 – 0266S
2.00 (50.8 mm)	1.60 (40.6 mm)	DUV – 200 – 0266S
Unmounted Round		
2.00 (50.8 mm)	1.60 (40.6 mm)	DUV – 200 – 0266