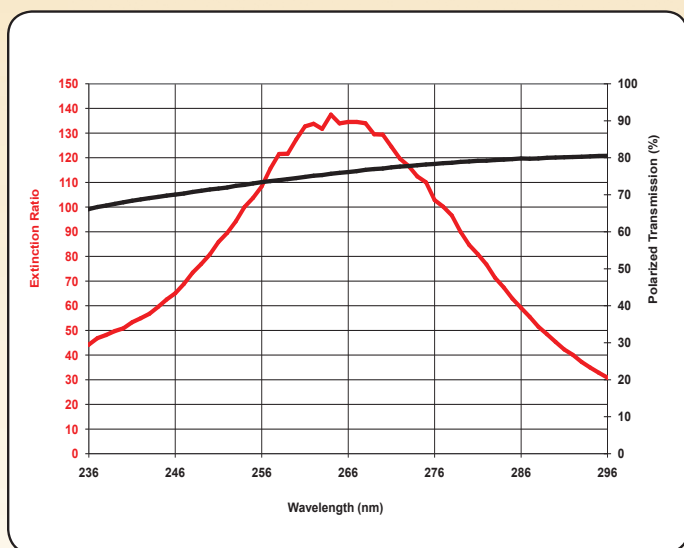
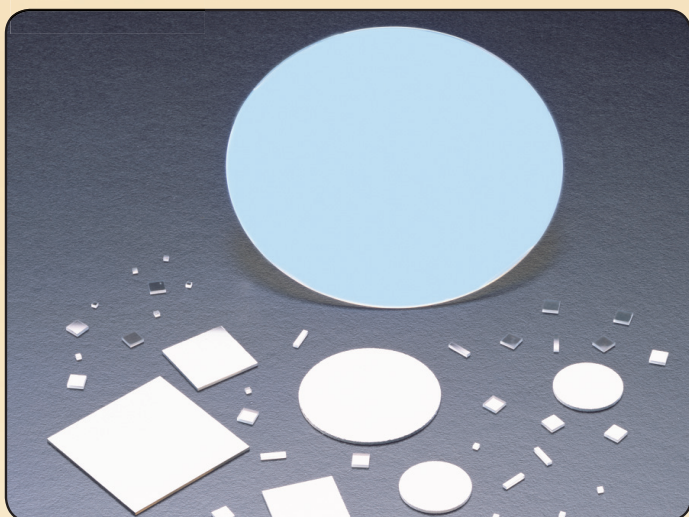


**NEW**

# Deep Ultraviolet Polarizer



Typical transmission (black) and contrast ratio (red) versus Wavelength over the usable wavelength range.

ORDERING INFORMATION		
Mounted		
Diameter (in.)	Clear Aperture (in.)	Part Number
1.00	0.40	DUVM-050-0266
1.00	0.70	DUVM-100-0266
2.00	1.20	DUVM-200-0266
Unmounted		
Diameter (in.)	Clear Aperture (in.)	Part Number
0.50	0.40	DUV-050-0266
1.00	0.80	DUV-100-0266
2.00	1.60	DUV-200-0266

## Key Benefits

- Works between 245 to 285 nm
- Wire grid polarizer
- High Damage Threshold
- Transmission of greater than 50%
- Contrast Ratio of greater than 50:1

Meadowlark Optics is pleased to present its new Deep Ultraviolet (UV) polarizer. Manufactured for wavelengths between 245 and 285 nm, this polarizer is ideal for applications requiring ultraviolet light around 266 nm. Additionally, this polarizer is transparent in the visible range, allowing visible light to easily pass through the polarizer.

Deep UV Polarizers are manufactured out of dielectric nanowire arrays as thin as 10 nm. By using a dielectric instead of a metal as the basis of the wire grid, the non-metallic structures allow for a high laser damage threshold and removes the concerns of the wire grid oxidizing or causing contamination. Furthermore these parts are manufactured on large substrates, allowing for easy customization of sizes and shapes. Please contact your Meadowlark Optics Sales Engineer for assistance with your custom needs.

## SPECIFICATIONS

Substrate Material	Fused Silica
Wavelength Range	245 - 285 nm
Transmitted Wavefront Distortion (at 632.8 nm)	$\leq \lambda/2$
Surface Quality	40 - 20 scratch and dig
Beam Deviation	$\leq 5$ arc min
Acceptance Angle	$0^\circ \pm 6^\circ$
Thickness	1.0 mm, nominal
Operating Temperature	$-40^\circ \text{C}$ to $+80^\circ \text{C}$

Custom wavelengths are available between 190 - 300 nm.

Custom sizes and shapes are available.

Please contact your Meadowlark Optics Sales Engineer for a custom quote.

## Deep Ultraviolet Polarizer Applications

Deep Ultraviolet polarizers are being used in a diverse range of applications including:

- Deep UV lithography and metrology
- Ultraviolet (266 nm) laser optics
- Surface Polarimetry
- Semiconductor wafer processing