



UV Polarizers
(mounting optional)

ProFlux® Nanowire® Ultraviolet polarizers offer excellent solutions for UV and deep UV applications (240 nm to 380 nm). High transmission and high contrast choices are available. High transmission products are indicated by UVT and high contrast products by UVD. UVD products can be used in spectrophotometers where the small size, wide acceptance angle, grid uniformity, and broad band capability offer substantial performance enhancements and versatility compared to Glan-Taylor prisms.

Features	Benefits
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Nanowire® Technology	Brightness and contrast uniformity
	±20° AOI without depolarization
	Broadband performance
Inorganic	High heat resistance
Protective Coatings	Protect Polarizer in UV, Ozone

Applications

- UV Exposure, Curing
- Photo-Alignment Processing
- Glan-Taylor prism replacement
- Security
- Forensics
- Photo-Alignment
- Biomedical

Standard Product Options

Product Name	Description
UVT300A	
UVT260A	High Transmission (260-400 nm)
UVT254A	High Transmission (254nm)
UVT240A	High Transmission (254nm)
UVD260A	Ultra High Contrast (260-400)
UVD240A	Ultra High Contrast (240-400)

General Specifications

Substrate Type: Fused Silica (UV and IR stabilized)

Thickness: UVT 1.0 ± 0.1 mm

UVD 2.1 ± 0.2 mm

Index of Refraction: 430 nm: 1.4672

1,000 nm: 1.4504

Thermal Expansion: 5.5 x 10⁻⁷/°C

Wavelength Range: 240 - 4,000 nm + (See table on page 2 for performance)

AR Coating: Optional (customer specified)

Dimensional Tolerance: ± 0.4 mm

Edge Exclusion: 2 mm

Transmission Axis (TA): Referenced to long side of part

TA Tolerance: ± 1°

Angle of Incidence: 0° ± 20°

Maximum Temperature: 150°C Standard

250°C Coated

RoHS: Compliant

Standard UVD Shapes: Square, circular, 12.5 mm, 25 mm, and 50 mm diameter with mount (see OPT-DATA-1005 for mounting options)

UVT Sizes: Min: 10 x 10 ± 0.2 mm

Max: Contact Moxtek

ProFlux UV Products and Performance

Performance	Range (nm)	190 nm		240 nm		254 nm		260 nm		300 nm		340 nm		400 nm		2750 nm	
		Tp	Cr	Tp	Cr	Tp	Cr	Tp	Cr	Tp	Cr	Tp	Cr	Tp	Cr	Tp	Cr
UVT300A	300-340	-	-	-	-	-	-	-	-	55	50	70	100	-	-	-	-
UVT260A	260-400	-	-	-	-	-	-	40	35	55	60	70	100	75	490	-	-
UVT254A	254	-	-	-	-	65	50	-	-	-	-	-	-	-	-	-	-
UVT240A	240-400	-	-	40	4	65	15	67	20	75	90	80	200	82	1600	-	-
UVD260A*	260-400	-	-	-	-	-	-	15	400	30	10,000	58	50,000	65	50,000	55	50,000
UVD240A*	240-400	-	-	30	10	45	45	50	60	62	800	65	5,000	70	8,000	55	50,000

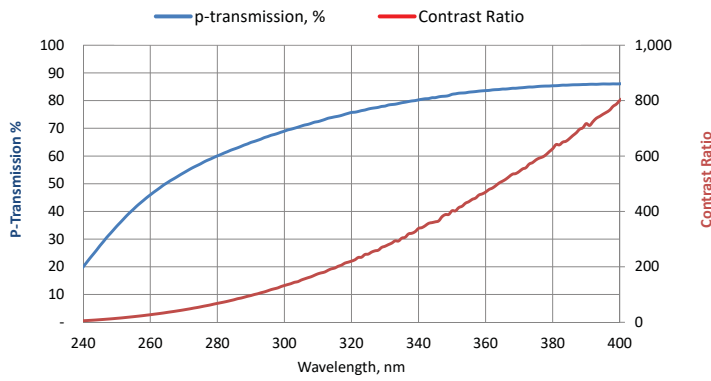
Application Note: Moxtek recommends the polarizer be placed in a non-oxidizing environment using nitrogen or other inert gas purge to maintain optimum polarizer performance. Alternatively, Moxtek can provide a coated polarizer for increased durability in UV, UV generated ozone, and high temperatures. The coating reduces performance slightly. A Moxtek sales representative can provide the best coating for your application needs.

*UVD Thickness = 2.1 mm (see general specifications)

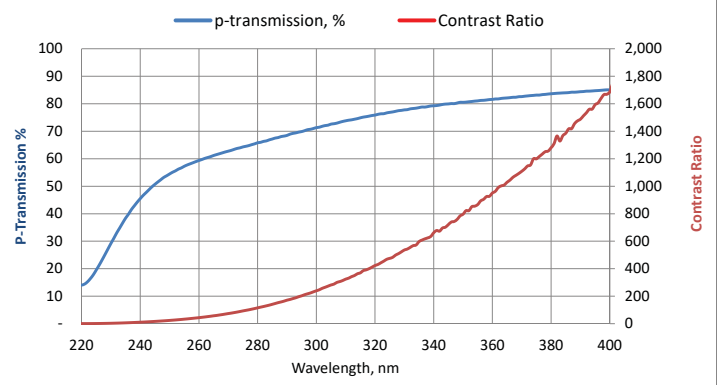
†Conditional Availability

Typical Performance

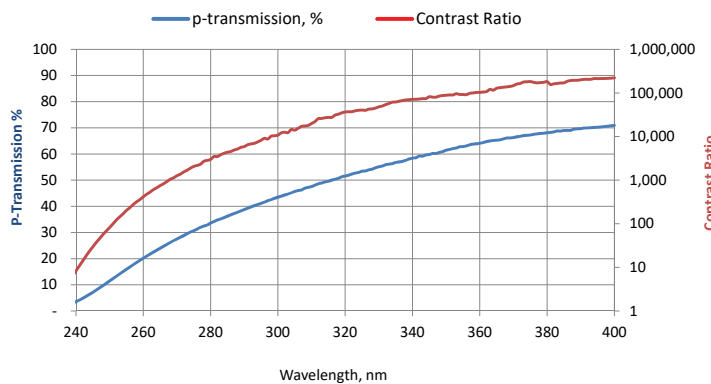
UVT260A Typical Performance (High Transmission)



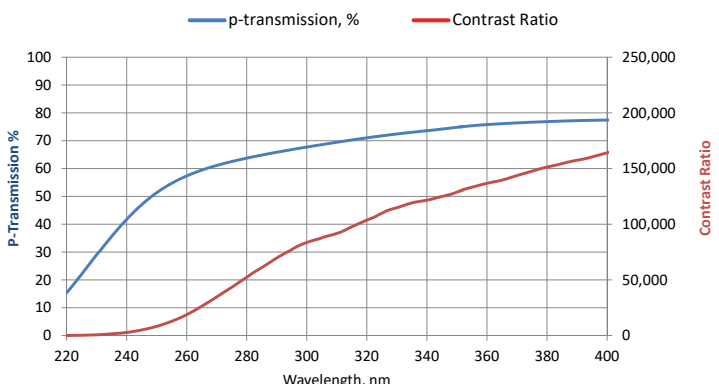
UVT240A Typical Performance (High Contrast)



UVD260A Typical Performance (High Contrast)



UVD240A Typical Performance (High Contrast)



All UV polarizers are broadband to 4 μm. See “Broadband Polarizers Datasheet” for details at moxtek.com.

For warranty and ordering information, please visit www.moxtek.com.



452 West 1260 North / Orem, UT 84057
 Phone 801.225.0930 / Fax 801.221.1121
www.moxtek.com
info@moxtek.com