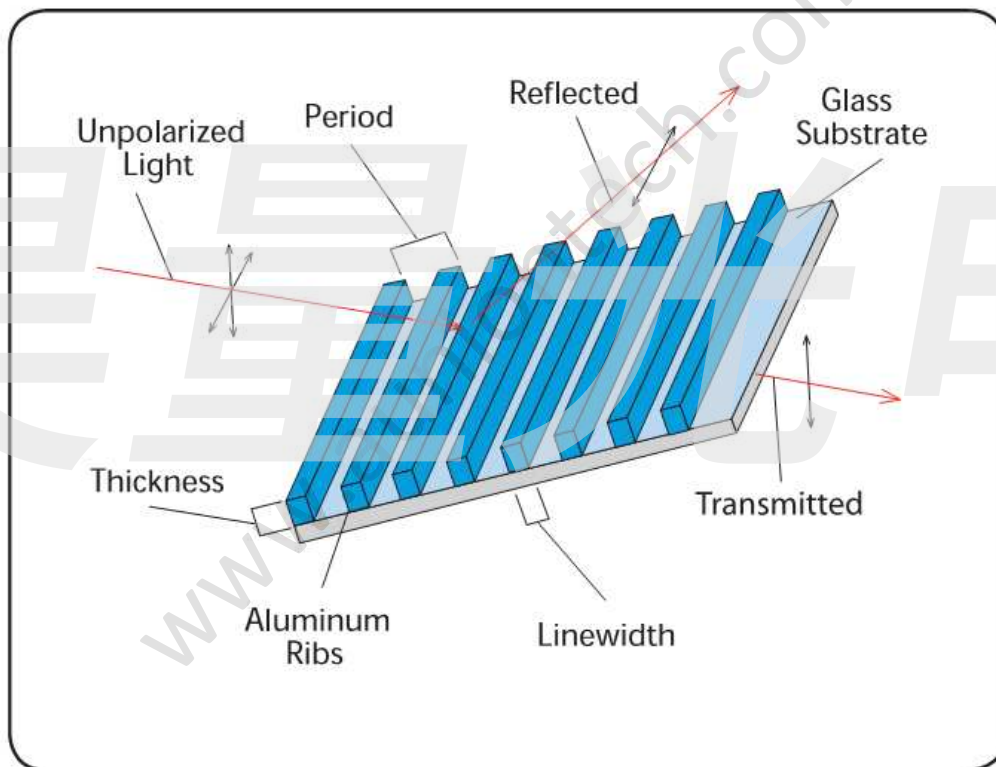


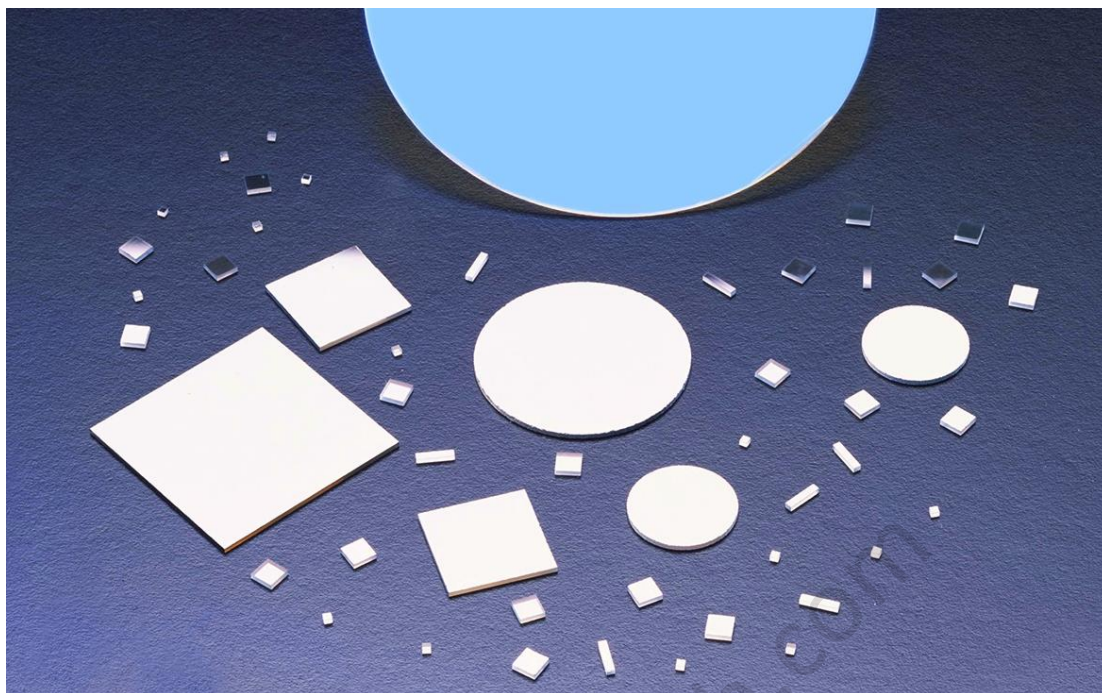
## 高损伤阈值、超大通光口径、高消光比线栅偏振片

美国 Meadowlark 公司的超大口径线、高损伤阈值、高消光比栅偏振片提供了损伤阈值高、宽带宽和超大口径的偏振解决方案，可提供 **325-450 nm, 450-1000nm, 1000-2000nm** 三种工作波长范围，在此基础上可提供 **1 mm-200 mm** 的通光口径和 **10KW/cm<sup>2</sup>, CW, 1540 nm** 的损伤阈值，在 200°C 的工作温度下，仍可以提供和二向色性偏振片一样的性能。

Meadowlark 的超大口径、高损伤阈值、高消光比线栅偏振片由一排固定在玻璃基板上的薄层金属铝线构成，其为要求高耐久性、高消光比和宽视角的包括通信领域在内的可见光到红外波段的应用设立了新的标准。



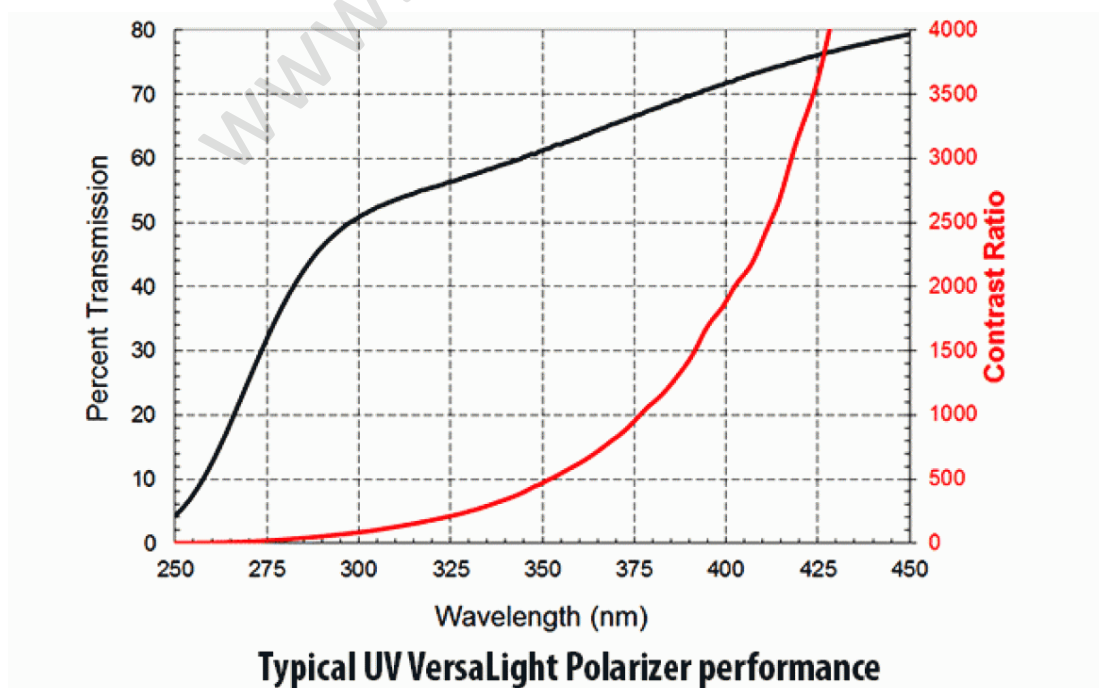
Meadowlark 的超大口径、高消光比、高损伤阈值线栅偏振片的结构特性允许其作为优秀的偏振分光器件，工作过程中，透射光的偏振方向垂直于超大口径线栅偏振片，而反射光的偏振方向平行于超大口径线栅偏振片；Meadowlark 的超大口径、高损伤阈值、高消光比线栅偏振片是目前宽带最宽、视角最宽的线栅偏振片。



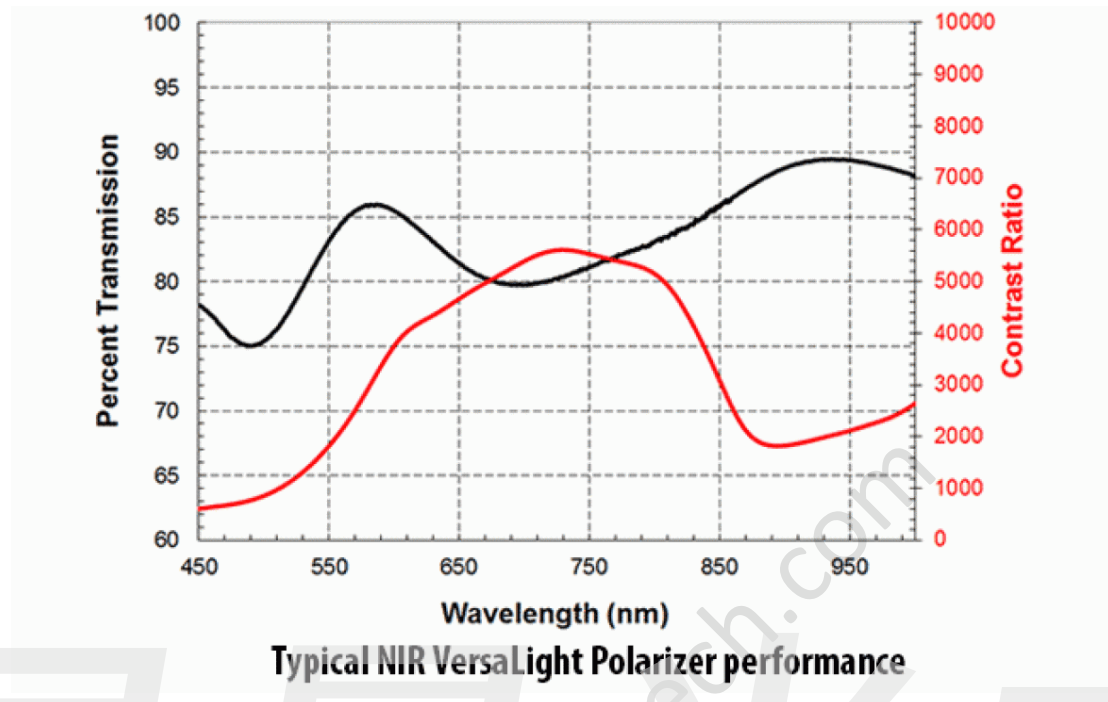
优势:

- 超宽带 325 nm – 2000 nm
- 高损伤阈值 10KW/cm<sup>2</sup>, CW, 1540 nm
- 超大口径 1 mm-200 mm
- 高消光比 Typ. Reflection > 80:1, Typ. Transmission > 2000:1

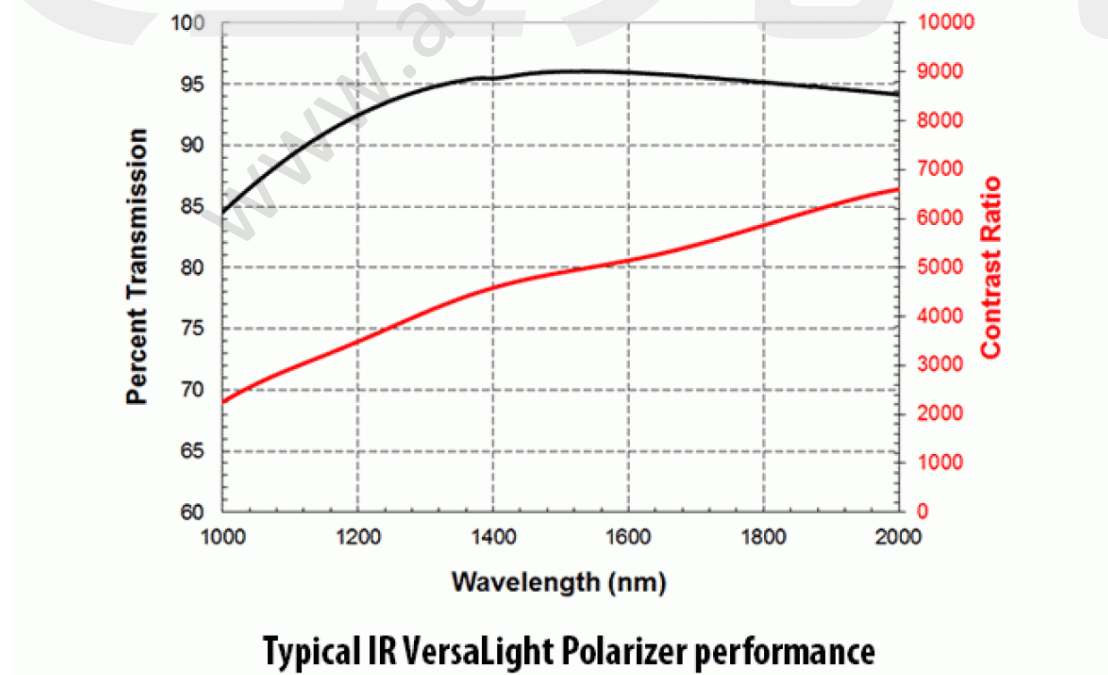
UV 紫外 325 nm-450 nm 透过率与消光比:



NIR 近红外 450 nm-1000 nm 透过率与消光比:



IR 红外 1000 nm-2000 nm 透过率与消光比:



规格:

<b>SPECIFICATIONS</b>	
<b>Substrate Material</b>	
Ultraviolet Near Infrared Infrared	UV grade fused silica Eagle XG Eagle XG
<b>Typical contrast in reflection</b>	> 30:1
<b>Thickness</b>	
Ultraviolet Near Infrared Infrared	1.1 mm 0.7 mm 0.7 mm
<b>Transmitted Wavefront Distortion (at 632.8 nm)</b>	
Ultraviolet Near Infrared Infrared	~ $\lambda/4$ per inch ~ $5\lambda$ per inch ~ $5\lambda$ per inch
<b>Surface Quality</b>	80-50 scratch and dig
<b>Beam Deviation</b>	$\leq 1$ arc min
<b>Wavelength Range</b>	
Ultraviolet	325-450 nm
Near Infrared	450-1000 nm
Infrared	1000-2000 nm
<b>Maximum Temperature</b>	200° C for single layer
<b>Laser Damage Threshold</b>	10 KW/cm <sup>2</sup> , CW, 1540 nm
<b>Diameter Tolerance</b>	
Mounted Unmounted	$\pm 0.005$ in. +0/-0.010 in.
<b>Outside Dimensions</b>	
Round Square	1 to 200 mm 1 to 140 mm
<p><i>On ultraviolet VersaLight, the wire grid surface will be unprotected, fragile and cannot be touched.</i></p> <p><i>UV VersaLight is optimized for 325-450nm</i></p> <p><i>NIR VersaLight is optimized for 450-1000nm</i></p> <p><i>IR VersaLight is optimized for 1000-2000nm</i></p>	

订购信息:

ORDERING INFORMATION		
Standard VersaLight		
Dimension	AR Coating	Part Number
<i>Square</i>		
0.5 x 0.5 in.	UV	VLS-050-UV
	NIR	VLS-050-NIR
	IR	VLS-050-IR
1.0 x 1.0 in.	UV	VLS-100-UV
	NIR	VLS-100-NIR
	IR	VLS-100-IR
2.0 x 2.0 in.	UV	VLS-200-UV
	NIR	VLS-200-NIR
	IR	VLS-200-IR
3.0 x 3.0 in.	UV	VLS-300-UV
	NIR	VLS-300-NIR
	IR	VLS-300-IR
4.0 x 4.0 in.	UV	VLS-400-UV
	NIR	VLS-400-NIR
	IR	VLS-400-IR
<i>Round</i>		
0.5 in. diameter	UV	VLR-050-UV
	NIR	VLR-050-NIR
	IR	VLR-050-IR
1.0 in. diameter	UV	VLR-100-UV
	NIR	VLR-100-NIR
	IR	VLR-100-IR
2.0 in. diameter	UV	VLR-200-UV
	NIR	VLR-200-NIR
	IR	VLR-200-IR
3.0 in. diameter	UV	VLR-300-UV
	NIR	VLR-300-IR
	IR	VLR-300-IR
4.0 in. diameter	UV	VLR-400-UV
	NIR	VLR-400-IR
	IR	VLR-400-IR
<p><i>Call for information on even higher contrast, doubled assemblies.</i></p> <p><i>Custom sizes are available. Please contact your Meadowlark Optics sales engineer for assistance.</i></p>		