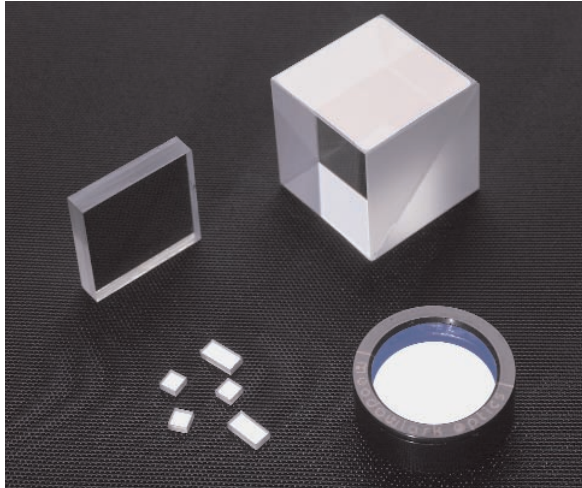




VersaLight is a brand new kind of polarizer, offering performance characteristics previously unavailable. Constructed of a thin layer of aluminum MicroWires™ on a glass substrate, VersaLight sets a new standard for applications requiring extremely high durability, contrast and a wide field of view from VIS through IR, including the telecom wavelengths.

VersaLight offers the performance quality of dichroic sheet polarizers without the problems of thermal meltdown commonly associated with this technology.

The nature of **VersaLight**'s MicroWire construction allows it to perform as an exceptional polarizing beam splitter. In operation, **VersaLight** reflects one polarization state and transmits another, both with an exceptionally high degree of purity. **VersaLight** offers the broadest band and highest field of view of any material currently available.

VersaLight can be shaped as needed and stacked to achieve very high extinction ratios.

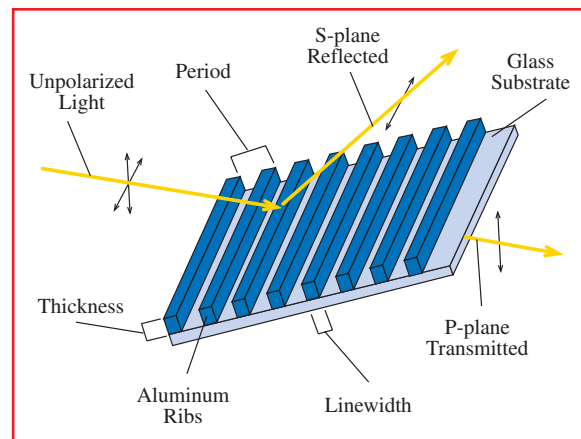
Take a look at some of **VersaLight**'s other qualities:

Broadband. **VersaLight** works over broad wavelength ranges from 550nm to 2400nm.

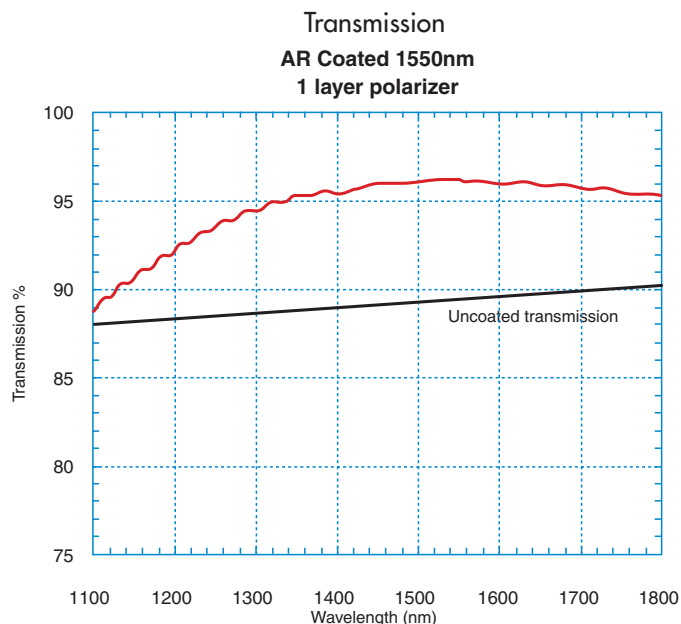
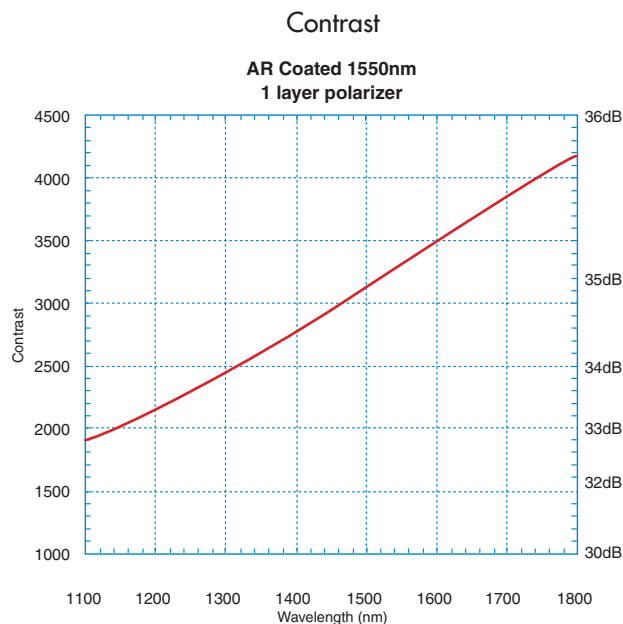
Contrast. **VersaLight** gives you contrast equal to or better than the best polarizer technologies, whether measured as average light cone or peak contrast.

Durability. Constructed of high-temperature glass coated with aluminum MicroWires, **VersaLight** can be operated almost indefinitely at high temperatures and fluxes.

Versatility. **VersaLight** can be used in sheet format or sandwiched between other components. It can replace a conventional beam splitter or be optimized for use at normal incidence in air, be imbedded in an optical assembly or be used for a variety of other applications.



**Talk to one of our sales engineers to find out how
VersaLight can work for your requirements.**



Specifications:

	Normal Incidence		45° Incidence
	AR Coated	Doubled ⁽¹⁾	AR Coated
Extinction (transmission)	>2500:1	>100,000:1	>2000:1
Extinction (reflection)	>30:1	>30:1 ⁽²⁾	>30:1 ⁽²⁾
Transmission	>96%	>70%	>94%
Reflection	>90%	(*)	(*)
Transmitted Wavefront Dist.	< $\lambda/5$ @633 nm ⁽³⁾	(*)	< $\lambda/5$ @633 nm ⁽³⁾
Wavelength Range	550 nm to over 2000 nm ⁽⁴⁾		
Operating Temperature Range	200°C		
Storage Temperature	200°C		
Maximum Input Power	10W cm ⁻² (cw)		
Dimensions	From 1.5 mm up to 120 mm		

⁽¹⁾ VersaLight is AR coated with aluminum wires facing out.

⁽²⁾ Estimated from reflection of first surface.

⁽³⁾ Over 25mm clear aperture.

⁽⁴⁾ Specification in table are over 1200-2000 nm band. At 980 expect a 4 dB reduction in extinction.

(*) Indicates specification not yet measured.

Contact Meadowlark Optics to discuss your requirements for VersaLight Polarizers.



MicroWires is a registered trademarks of MOXTEK, Inc.

meadowlark optics
polarization solutions

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