**Wire Grid VersaLight™ Polarizing Beam Splitter**

Meadowlark Optics presents its Versalight™ wire grid polarizing beam splitters. Manufactured for wavelength ranges between 420 and 2600 nm, this polarizer is ideal for broadband and wide field-of-view applications.

Wire grid polarizing beam splitters are manufactured out of our Versalight wire grid polarizer sandwiched between right angle prisms. No AR coatings are standard for maximum wavelength usage. Broadband AR coatings are available on the faces of the cube covering either visible (450 to 1100 nm) or IR (1000 to 2400 nm). Please contact your Meadowlark Optics Sales Engineer for assistance with your custom needs.

**Key Features**

- 420 to 2600 nm
- Wide acceptance angle
- Excellent transmitted contrast

**Polarization Suite**

- **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 ratio (red) and transmission (blue) over relevant wavelength range.
**SPECIFICATIONS**

**Substrate Material**
N-BK7 (or equivalent)

**Average Reflectivity:**
- 450-1100 nm - VIS
- 1000-2400 nm - IR
- 420-2600 nm - UNC
  - < 2.0%
  - < 2.0%
  - ~ 4.25%

**Transmitted Wavefront Distortion**
- ≤ λ/2 (P-V @ 633 nm)
- ≤ λ/8 (RMS @ 633 nm)

**Surface Quality**
80 – 50 scratch-dig

**Beam Deviation (transmittance)**
≤ 5 arc min

**Dimensional Tolerance**
± 0.020 in.

**Acceptance Angle**
± 40˚

**Operating Temperature**
-40°C to + 75°C

*Many options, including custom sizes and shapes are available. Please contact your Meadowlark Optics Sales Engineer for more information.*

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**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Dimension in. (mm)</th>
<th>Clear Aperture in. (mm)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.52 x 0.52 x 0.50 (13.2 x 13.2 x 12.7 mm)</td>
<td>0.40 (10.2 mm)</td>
<td>BV – 050 – VIS BV – 050 – IR BV – 050 – UNC</td>
</tr>
<tr>
<td>1.02 x 1.02 x 1.00 (25.9 x 25.9 x 25.4 mm)</td>
<td>0.80 (20.3 mm)</td>
<td>BV – 100 – VIS BV – 100 – IR BV – 100 – UNC</td>
</tr>
<tr>
<td>2.02 x 2.02 x 2.00 (51.3 x 51.3 x 50.8 mm)</td>
<td>1.60 (40.6 mm)</td>
<td>BV – 200 – VIS BV – 200 – IR BV – 200 – UNC</td>
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