The MagicPRISM is a compact, motorized optical parametric oscillator (OPO) module with a conversion efficiency as high as forty percent.

**FEATURES**
- Stand-alone OPO module, compatible with most nanosecond Nd:YAG pump lasers
- Computer controlled tuning via control software/software development kit (SDK)
- Shipped with protective hard shell casing (PHSC)
- Requires alignment kit (AK) or Qsmart adapter (QSA) for alignment/mounting
- Warranty: One year on mechanical, electronics, and labor

**OPTIONS**
- **Protective Hard Shell Cases (PHSC)**
  Includes two protective hard cases with custom foam padding.
- **Idler Access (ID)**
  Extends tuning range to include 740 – 1200 nm
  Decreases SIGNAL performance by 10%
- **Alignment Kit (AK)**
  Stand-alone alignment kit for MagicPRISM pump beam.
  End-user alignable. Does not include turning mirrors.
- **Fast Tuning**
  NIR and NIRD only. Wavelength can be tuned to any value within 690 - 950 or 1200 - 1700 nm at every pulse

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Product</th>
<th>VIS / VIR</th>
<th>NIR / NIRD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wavelength range</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIS (nm)</td>
<td>420 - 680</td>
<td>N/A</td>
</tr>
<tr>
<td>VIR (nm)</td>
<td>420 - 680 and 740 - 1200</td>
<td>N/A</td>
</tr>
<tr>
<td>NIR (nm)</td>
<td>N/A</td>
<td>690 - 950</td>
</tr>
<tr>
<td>NIRD (nm)</td>
<td>N/A</td>
<td>690 - 950 and 1200 - 1700</td>
</tr>
<tr>
<td><strong>Peak Pulse Energy (mJ): VIS (VIR), NIR (NIRD)</strong></td>
<td>37 (32)</td>
<td>53 (48)</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>Horizontal</td>
<td>Horizontal</td>
</tr>
<tr>
<td><strong>Pump Laser Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Wavelength (nm)</td>
<td>355</td>
<td>532</td>
</tr>
<tr>
<td>Max pump pulse energy (mJ)</td>
<td>90</td>
<td>140</td>
</tr>
<tr>
<td>Pulse Duration (ns)</td>
<td>6 - 8</td>
<td>6 - 8</td>
</tr>
<tr>
<td>Beam Divergence (mrad)</td>
<td>&lt; 0.5</td>
<td>&lt; 0.5</td>
</tr>
<tr>
<td>Linewidth (cm⁻¹)</td>
<td>5 - 80</td>
<td>30 - 80</td>
</tr>
<tr>
<td>Pulse Pulse Stability (%)</td>
<td>&lt; 4</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>Pulse Repetition Rate (Hz)</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td><strong>Physical Characteristics: LxWxH - inches (cm)</strong></td>
<td>3.8 x 4.4 x 3.4 (9.7 x 11.2 x 8.6)</td>
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</tr>
</tbody>
</table>

Typical performance when pumped with 90 mJ of 355 nm. Actual results may vary depending on pump laser.

Typical performance when pumped with 140 mJ of 532 nm. Actual results may vary depending on pump laser.
Stream-lined housing that connects pump laser, harmonics and OPO module

Based on Ring-Cavity optical parametric oscillator (OPO) technology, the MagicPRISM Inline is a cost effective laser source that generates wavelengths over a broad range in the VIS and IR.

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End-user alignable. Does not include turning mirrors.

Fast Tuning
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DIMENSIONS
Model NIR/NIRD

Model VIS/VIR

All dimensions approximate in inches (centimeters)

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