LFC1500X is a complete system that allows extreme pulse control and measurement, giving the user a great and unprecedented versatility. Frequency, pulse energy, and pulse width selection. This makes it an ideal tool for Nonlinear optics applications and Research, especially in Two-photon and Three photon absorption.

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**FYL A LFC1500X Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Power</td>
<td>&gt; 100 mW @10 MHz</td>
</tr>
<tr>
<td>Fundamental Pulsewidth</td>
<td>120 fs</td>
</tr>
<tr>
<td>Spectral Range</td>
<td>1560 nm</td>
</tr>
<tr>
<td>Repetition Rate</td>
<td>10 MHz (Fundamental)</td>
</tr>
<tr>
<td>Full Spectrum Power Stability</td>
<td>&lt;1 % (std. dev.)</td>
</tr>
</tbody>
</table>

This product is a Class 3B laser.
## FYLA LFC1500X Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Polarization</td>
<td>Linearly Polarised</td>
</tr>
<tr>
<td>Output Fiber / Length</td>
<td>1.5 m</td>
</tr>
<tr>
<td>Optical Output</td>
<td>Free Space</td>
</tr>
<tr>
<td>Synchronization / Connections</td>
<td>USB (comms) - BNC trigger output - Interlock</td>
</tr>
<tr>
<td>Beam Diameter</td>
<td>2.1 mm or 3.5 mm (1/e²)</td>
</tr>
<tr>
<td>M2 Parameter</td>
<td>&lt;1.2</td>
</tr>
<tr>
<td>Half-angle Beam Divergence</td>
<td>0,032° (at 1560 nm)</td>
</tr>
<tr>
<td>Cooling</td>
<td>Integrated Peltier + air cooling</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>220 V / 110V - 50/60 Hz</td>
</tr>
<tr>
<td>Display</td>
<td>N/A</td>
</tr>
<tr>
<td>Control Modes</td>
<td>Mode Manual/Remote</td>
</tr>
</tbody>
</table>
## FYLA LFC1500X Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperatures</td>
<td>20 - 30 Celsius</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0 - 60 Celsius</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>500 x 800 x 300 (Main Laser Module)</td>
</tr>
<tr>
<td>Pulsewidth Tunability</td>
<td>200 fs to 600 fs</td>
</tr>
<tr>
<td>Repetition Rate Tunability (Pulse Train)</td>
<td>Single Shot to 10 MHz</td>
</tr>
<tr>
<td>Pulse Energy Range</td>
<td>&lt;10 pJ to &gt;10 nJ</td>
</tr>
<tr>
<td>Electromechanical Shutter Output</td>
<td>Rise-time: 1 ms, Sync. to Pulse train</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.

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