The PYFL-MIRVISION series is a range of 1µm pulsed fiber laser transmitters, delivering high peak power and high energy per pulse in compact modules for long-range applications. A varied choice of models offers the possibility to operate over a wide range of operating setpoints (pulse duration, pulse repetition frequency and energy) allowing to be suitable for a various of high-accuracy systems. Compact pulsed laser transmitters are commonly used in applications such as Airborne 3D scanning and mapping, telemetry, and also harmonic and supercontinuum generation.

The all-in-fiber design requires no maintenance. The PYFL-MIRVISION has been tested under vibrations and shocks conditions in accordance with military standards (MIL-STD-810G, RTCA-DO-160G...) allowing operations in the harshest environmental conditions over a long period of time.

Lumibird electronic board designs offer a wide range of functionalities. Platforms incorporate a microcontroller for internal controls, alarms, and RS232/USB communication making the laser compatible all systems. Pulses are triggered by an external signal supplied by the user system.

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**Key features**

- Energy per pulse up to 100 µJ
- Peak power up to 25 kW
- Choice of pulse duration from 1 ns to 4 ns
- Pulse repetition frequency from 50 kHz to 1 MHz
- Linear or random polarization
- High output-beam quality
- Low power consumption
- Wide operating temperature range (-35 °C to +65 °C)
- Rugged and compact package

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**What applications**

- Telemetry,
- Range-finding / Obstacle detection
- Airborne survey
- Mapping / 3D scanning
- Harmonic generation
- Bathymetry

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For ordering information and custom solutions, please contact us: websales@keopsys.com
**PYFL-MIRVISION**

**PULSED YTTERBIUM FIBER LASER**

1.0 µm HIGH POWER LASER TRANSMITTER

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**Optical Specifications**

<table>
<thead>
<tr>
<th></th>
<th><strong>PYFL-MIRVISION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode of operation</td>
<td>Pulsed</td>
</tr>
<tr>
<td>Operating wavelength</td>
<td>1064 +/-2 nm</td>
</tr>
<tr>
<td>Wavelength excursion over T range</td>
<td>&lt;0.3 nm</td>
</tr>
<tr>
<td>Energy per pulse</td>
<td>Up to 100 µJ</td>
</tr>
<tr>
<td>Peak power</td>
<td>Up to 25 kW</td>
</tr>
<tr>
<td>Average power</td>
<td>Up to 10 W</td>
</tr>
<tr>
<td>Pulse repetition frequency</td>
<td>From 50 kHz to 1 MHz</td>
</tr>
<tr>
<td>Pulse duration (FWHM)</td>
<td>From 1 to 4 ns</td>
</tr>
<tr>
<td>Fiber type</td>
<td>LMA / LMA PANDA (20 µm, 0.08 NA)</td>
</tr>
<tr>
<td>Polarization</td>
<td>Random or Linear</td>
</tr>
<tr>
<td>Beam quality, M²</td>
<td>&lt;1.3</td>
</tr>
<tr>
<td>Output termination</td>
<td>FC/APC or Collimator</td>
</tr>
<tr>
<td>Seed tap (option)</td>
<td>1 m pigtail length, &gt; 0.1mW peak power, SMF, FC/APC</td>
</tr>
</tbody>
</table>

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**The PYFL-MIRVISION lasers are available as OEM module for an easy integration**

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**RELIABILITY**

Lumibird range of fiber lasers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2015 standard. Our all-in-fiber systems offer maintenance-free operation. Countless units are continuously running in demanding environments with no failure.

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**GUARANTEE**

Our fiber systems are under 1 full year parts and labor warranty. We offer a warranty extension of 1 or 2 years. Please contact us.

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Lumibird undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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Lumibird has locations across the globe that are available to provide support for any product, service or inquiry. Visit www.lumibird.com to connect with any of our global sites.