CEFL-TERA is CW Erbium fiber laser delivering up to 30 W in random or linear polarization. This laser is a perfect tool for wide range of applications. It offers a cost effective and no maintenance solution. This erbium fiber laser is useful for optical components testing, spectroscopy, OPO pumping or thulium laser pumping. Lumibird original conception allows proposing a cost-effective fiber laser.

Lumibird integrates standard and proven optical components reducing the FIT rate for a high MTBF value.

The laser is available in random or linear polarization and delivers a perfect diffraction limited beam with a linewidth of a few nm. Furthermore, the central wavelength can be selected from 1532nm to 1550nm. Finally, the output power can be modulated with an external TTL signal up to 10kHz.

This erbium fiber laser is available in a turn-key benchtop which can be monitored from the front panel or via RS232. Also, this fiber laser meets superior wall-plug efficiency of 10%.

No maintenance is needed for this high-quality fiber laser. Additionally, no installation is required, plug it, run it and forget it.

--- Key features ---
- 1532, 1535, 1550 nm operating wavelength
- Output power up to 30W
- Linewidth of a few nm
- Diffraction limited output
- Amplitude modulation (optional)
- Random or linear polarization
- High wall-plug efficiency
- Maintenance free

--- What applications ---
- Optical component testing
- Laser trapping spectroscopy
- Medical (dermatology)
- Heating
- OPO and Thulium fiber pumping

For ordering information and custom solutions, please contact us: websales@keopsys.com
### Optical Specifications

<table>
<thead>
<tr>
<th>@25 °C</th>
<th>CEFL-TERA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mode of operation</strong></td>
<td>CW or modulation</td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>From 1 to 30 W</td>
</tr>
<tr>
<td><strong>Operating wavelength</strong></td>
<td>1532 +/-1 nm, 1535 +/-1 nm or 1550 +/- 5nm</td>
</tr>
<tr>
<td><strong>Linewidth (FWHM)</strong></td>
<td>&lt; 1 nm</td>
</tr>
<tr>
<td><strong>Output power stability over 1 hour</strong></td>
<td>&lt; 2 % rms</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>Random or Linear</td>
</tr>
<tr>
<td><strong>Beam quality, M²</strong></td>
<td>&lt; 1.1</td>
</tr>
<tr>
<td><strong>Amplitude modulation</strong></td>
<td>Option</td>
</tr>
<tr>
<td><strong>Output power monitor and APC</strong></td>
<td>Option</td>
</tr>
<tr>
<td><strong>Fiber type</strong></td>
<td>SM/PANDA</td>
</tr>
<tr>
<td><strong>Output termination</strong></td>
<td>FC/APC or Collimator</td>
</tr>
</tbody>
</table>

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**The CEFL-TERA lasers are available as turn-key benchtop or as OEM module (up to 2 W)**

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**RELIABILITY**

The 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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