Firefly THz
TUNABLE, PULSED THZ OPO

脉动科技有限公司
中国代理商

北京总部  地址：海淀区中关村东路84-8号  传真：010-62565117-803
二层1-104单元，100190  邮箱：info@pulepower.cn  官网：www.pulsepower.cn
电话：010-62565117

上海办事处  上海办事处  成都办事处
021-60720971  0755-26922729  17710735621
Firefly THz is an integrated pump laser with sealed maintenance-free laser head and novel optical parametric oscillator providing widely tunable, high power output.

**FEATURES**

- **HIGH BRIGHTNESS**
  Firefly THz provides greater sensitivity and standoff distance for remote sensing and spectroscopy.

- **WIDE TUNING**
  Widely tunable, narrow linewidth output enables broad, fast THz wavelength scans from a single unit.

- **PRECISE WAVELENGTH CONTROL**
  Option to integrate with a wavemeter for precise control of THz wavelength

- **PULSED NANOSECOND OUTPUT**
  This removes the need for post-detection Fourier transform data processing.

- **EXCEPTIONAL BEAM QUALITY**
  Gaussian and symmetrical THz output is ideal for imaging systems and spectroscopic applications.

- **FULLY AUTOMATED**
  Easy THz selection, pre-set THz values and optimisation of OPO & pump mirrors via a web interface or via a published set of TCP/IP controls, facilitating automated control and option to use third party applications such as LabVIEW and MATLAB.
## SPECIFICATIONS\(^{(1)}\)\(^{(5)}\)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>OUTPUT PULSE ENERGY</td>
<td>&gt;9 nj @ 50 Hz</td>
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<tr>
<td>TUNING RANGE(^{(2)})</td>
<td>0.8 - &gt;2.5 THz</td>
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<tr>
<td>PULSE REPETITION RATE(^{(3)})</td>
<td>50 Hz (fixed)</td>
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<tr>
<td>PULSE DURATION</td>
<td>&lt;30 ns (FWHM)</td>
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<tr>
<td>LINEWIDTH(^{(4)})</td>
<td>&lt;50 GHz (typical)</td>
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<tr>
<td>BEAM QUALITY</td>
<td>Near diffraction-limited</td>
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</tbody>
</table>

\(^{(1)}\) All specifications at 50Hz pulse repetition rate and at the peak of the tuning curve unless stated otherwise.  
\(^{(2)}\) Other wavelength ranges available.  
\(^{(3)}\) Other custom repetition rates available.  
\(^{(4)}\) Optional line-narrowed option available.  
\(^{(5)}\) System does not include THz detection method.