

Pulsed Tunable THz

TUNABLE, PULSED THz OPO

脉动科技有限公司

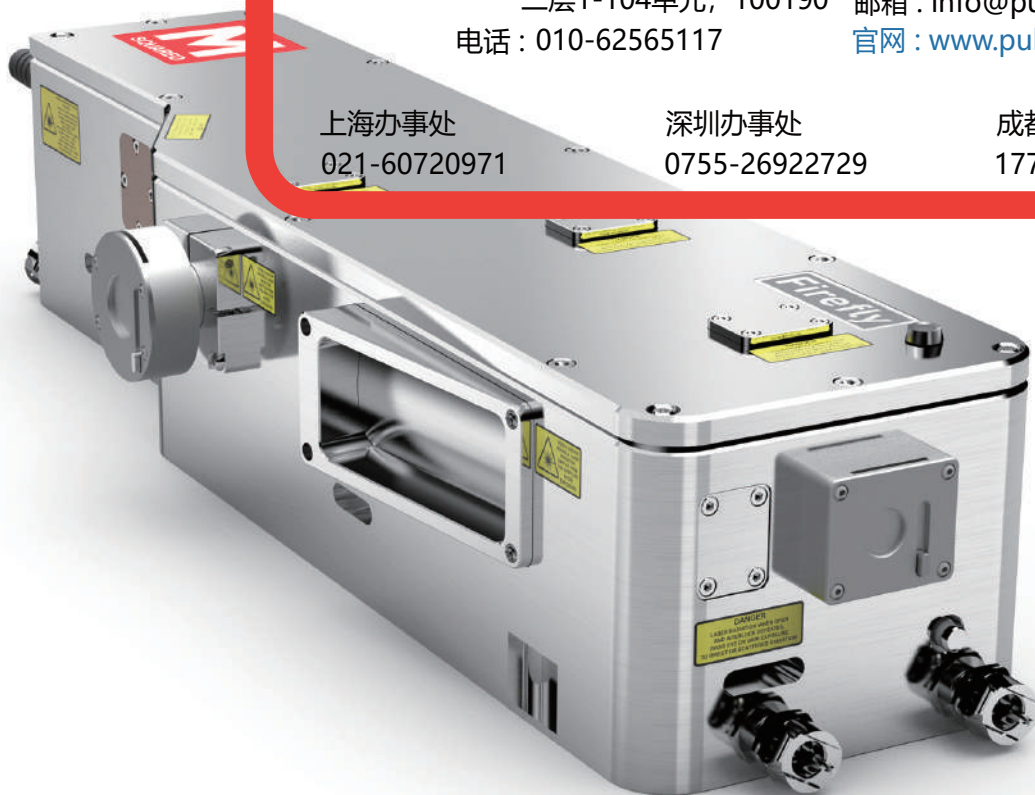
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Firefly THz is an integrated pump laser with sealed maintenance-free laser head and novel optical parametric oscillator providing widely tunable, high power output.

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⁾

OUTPUT PULSE ENERGY	>9 nJ @ 50 Hz
TUNING RANGE ⁽²⁾	0.8 - >2.5 THz
PULSE REPETITION RATE ⁽³⁾	50 Hz (fixed)
PULSE DURATION	<30 ns (FWHM)
LINEWIDTH ⁽⁴⁾	<50 GHz (typical)
BEAM QUALITY	Near diffraction-limited

(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.

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