

Pulsed Tunable IR

TUNABLE, PULSED IR SW
& LW OPO

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Firefly IR is a pulsed, tunable IR source with capabilities for remote sensing and molecular spectroscopy applications including high peak and average power and high brightness.

FEATURES

- TUNING, POWER AND LINEWIDTH OPTIONS

Five standard models available, and Firefly IR can easily be customised as needed.

- REAL-TIME IMAGING

The Firefly wavelength range includes many molecular absorption features including hydrocarbons and is ideal for real-time imaging for molecular spectroscopy, the remote sensing of hydrocarbons, stand off gas detection and mid IR waveguide characterisation.

- RAPID DATA ACQUISITION

Easy logging of measurements during scans.

- PEAK AND AVERAGE POWER

Class-leading peak and average power increases S:N and detector standoff distance.

- FULLY AUTOMATED

Wavelength tuning and locking is easy 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.

- OPTIONAL EXTRAS

A pulse burst modulation accessory is available.

SPECIFICATIONS

FIREFLY IR SW

	LOW POWER		HIGH POWER	
TUNING RANGE OPTIONS ⁽¹⁾	A	B	A	B
IDLER TUNING RANGE ⁽²⁾	2.5-3.7 μm	3.7-4.5 μm	2.5-3.7 μm	3.7-4.5 μm
SIGNAL TUNING RANGE ⁽²⁾	1.5-1.8 μm	1.4-1.5 μm	1.5-1.9 μm	1.4-1.5 μm
OUTPUT POWER	>80 mW ⁽³⁾	>50 mW ⁽⁴⁾	>250 mW ⁽³⁾	>90 mW ⁽⁴⁾
LINEWIDTH	<10 cm^{-1} ^(3,5)	<5 cm^{-1} ⁽⁴⁾	<10 cm^{-1} ^(3,5)	<5 cm^{-1} ⁽⁴⁾
PULSE DURATION	<10 ns (FWHM)		<10 ns (FWHM)	
PULSE REPETITION RATE ⁽⁷⁾	150 kHz		150 kHz	
BEAM DIVERGENCE FULL ANGLE ⁽⁶⁾	< 3 mR		< 3 mR	
BEAM DIAMETER	<4,5 mm ⁽⁸⁾		<2 mm	
DIMENSIONS (LxWxH)	347 x 143 x 69 mm 14 x 6 x 3 inches		347 x 143 x 69 mm 14 x 8 x 3 inches	

FIREFLY IR LW

IDLER TUNING RANGE	5.6 – 8.5 μm
OUTPUT POWER	~30 mW
LINEWIDTH	<15 cm^{-1} ⁽⁹⁾
PULSE DURATION	<50 ns
PULSE REPETITION RATE	20 kHz
BEAM DIVERGENCE (FULL ANGLE)	<3 mR
BEAM DIAMETER	<10 mm
DIMENSIONS (LxWxH)	430 x 160 x 70 mm 17 x 6 x 3 inches

(1) Factory configured as range A or B. For 4.5-4.7 μm please contact factory.

(2) Factory configured. Default is idler only. Signal only or signal+idler options are available.

(3) Specified at 3 μm (and at 1.65 μm if signal configured).

(4) Specified at 4 μm (and at 1.45 μm if signal configured).

(5) Factory configured, 3 cm^{-1} line narrowed version available with 60% of broadband output power.

(6) As 1/e² intensity full width.

(7) Nominal factory-set. Custom values available: please inquire.

(8) \pm 15%

(9) As 1 /e² intensity full width

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