

Firefly-IR

Compact, Widely Tunable, Pulsed
Mid-Infrared Laser Source

脉动科技有限公司

中国代理商

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Applications

- Molecular spectroscopy
- Remote sensing of hydrocarbons
- Stand-off detection of threat agents and fugitive gas emissions
- Environmental survey and monitoring

Features

- Extremely broad tuning range
- Class-leading peak and average power
- Automated alignment, maintenance free operation
- High repetition rate enables rapid data acquisition and real time imaging
- Instrument control by Ethernet (ICE)

Available in various tuning range, power and linewidth options. Customization and a pulse burst modulation accessory are also available. Please inquire.

Specification	Low Power		High Power	
Tuning Range Options ^[1]	A	B	A	B
Idler Tuning Range ^[2]	2.5-3.7 μ m	3.7-4.5 μ m	2.5-3.7 μ m	3.7-4.5 μ m
Signal Tuning Range ^[2]	1.5-1.9 μ m	1.4-1.5 μ m	1.5-1.9 μ m	1.4-1.5 μ m
Output Power	>80mW ^[3]	>50mW ^[4]	>250mW ^[3]	>90mW ^[4]
Linewidth	<10cm ⁻¹ ^[3]	<5cm ⁻¹ ^[4]	<10cm ⁻¹ ^[3,5]	<5cm ⁻¹ ^[4]
Pulse Duration	< 10 ns (FWHM)		< 10 ns (FWHM)	
Pulse Repetition Rate ^[7]	150kHz		150kHz	
Beam Divergence (full angle) ^[6]	< 3mR		< 3mR	
Beam Diameter	< 2mm		< 2mm	
Dimensions (L x W x H)	347 x 143 x 69mm 14 x 6 x 3 inches		341 x 204 x 75mm 14 x 8 x 3 inches	

Notes

1. Factory configured as range A or B. For 4.5-4.7 μ m please contact factory.
2. Factory configured. Default is idler only. Signal only or signal+idler options are available.
3. Specified at 3 μ m (and at 1.65 μ m if signal configured).
4. Specified at 4 μ m (and at 1.45 μ m if signal configured).
5. Factory configured, 3cm-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.

M Squared Lasers Ltd

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