

# Firefly-IR-Long Wavelength

Compact, Widely Tunable, Pulsed  
Mid-Infrared Laser Source



## 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
- Instrument control by Ethernet

### Typical Performance

Idle Tuning Range <sup>[1]</sup>	5.6 – 8.5 $\mu\text{m}$
Output Power	>80 mW <sup>[2]</sup>
Linewidth	<15 $\text{cm}^{-1}$
Pulse Duration	<50 ns
Pulse Repetition Rate	20 kHz
Beam Divergence (full angle) <sup>[3]</sup>	<3 mR
Beam Diameter	<4 mm
Dimensions (L x W x H)	430 x 160 x 70 mm 17 x 6 x 3 inches

### Notes:

1. Measured at peak of power curve.
2. As  $1/e^2$  intensity full width.

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M Squared Laser's laser products are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Centre of Devices and Radiological Health on all systems ordered for shipment after October 1st, 2003.

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