Fire*FLY*-LS

Illumination for Advanced Techniques in High-Speed Imaging

The Compact Short-Pulsed Laser for Illumination in Light Sheet Applications

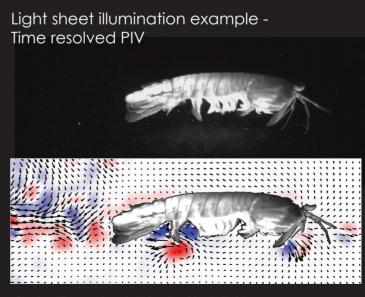




The Light Sheet (LS) Model

The FireFLY-LS is designed with PIV imaging in mind. Whether for time resolved, high-speed or standard, the FireFLY-LS is a compact, affordable and reliable laser illumination system for advanced imaging techniques.

An easy-to-use, flexible light delivery system with a simple interface makes the Fire *FLY*-LS perfect for illuminating high-speed imaging events in applications for PIV, flow visualisation and fluid mechanics.



Fire*FLY*-LS

Short-pulsed laser illumination for light sheet applications in high-speed imaging

Technical Specifications



Name	Fire <i>FLY</i> -LS laser
Laser Class	Laser Class 4
Wavelength	808 nm
Laser power	500 W*
Pulse duration range	50 ns to 100 µs (1% duty cycle limited)
Maximum pluse frequency	10,000 Hz
Number of pulses per burst	254
Voltage	100 to 240 VAC
Frequency	50/60 Hz
Dimensions	Laser Head (no optic): 205 mm x 125 mm x 70 mm Controller: 310 x 200 x 80 mm
Weight	Laser head: 3 kg Laser Controller: 2.6 kg

*at the diode

Light sheet illumination example - Air application

FireFLY500-LS 1kHz (FOV 120mm x 120mm)

FireFLY500-LS 10kHz



Applications

- Time resolved PIV
- High-speed PIV
- Standard PIV
- Flow visualisation
- Fluid mechanics
- General high-speed imaging

Features

- High-repetition rate to keep up with high-speed events
- Trigger easily from any camera, high speed or low speed
- Fully sealed air cooled laser head



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