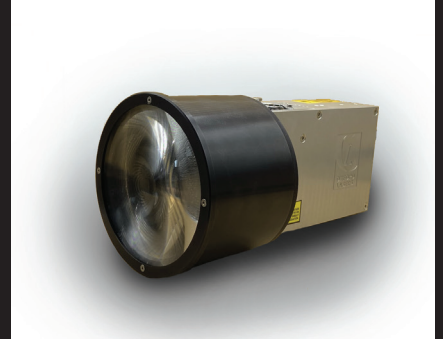
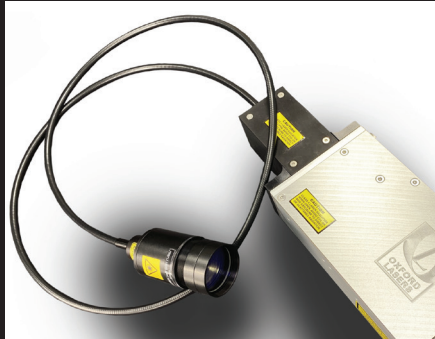


FireFLY-S

Versatile Illumination System for
High-Speed Imaging

Illumination for Diverse Imaging Applications

Short-Pulsed Laser Light Source for General High-Speed Imaging with Flexible Options



FireFLY-S Model

500 W compact, short-pulsed laser light source from Oxford Lasers

Multiple Light Delivery Options

Wide-range of
accessories available



The Standard (S) Model

Affordable, compact, flexible, robust and reliable, the FireFLY-S is our most versatile short-pulsed laser illumination model.

Designed with a simple interface that synchronises with high-speed camera systems, it is a flexible light delivery system ensuring ease of use over a diverse range of imaging techniques.

With accessory options, it allows you to tailor the illumination to the application requirements for imaging of high-speed events.



FireFLY-S

Versatile short-pulsed laser illumination for applications in high-speed imaging



Technical Specifications

Name	FireFLY-S 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)
Minimum separation	300 ns
Maximum pluse frequency	100,000 Hz
Burst frequency	3,000,000 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 (dependent upon options chosen) Laser Controller: 2.6 kg

*at the diode

Accessory and upgrade options



Name	Part number
Large area diffuser	SSO0004
Light guide delivery	POF0042
Waterproof upgrade	PHZ0008
Diffuser for particle sizing	POZ0002
Band pass filter 50mm	SIA2025
Laser safe goggles	POG0019

Applications

- General high-speed imaging
- Particle sizing
- Spray diagnostics
- Digital image correlation (DIC)
- Schlieren imaging
- Bright events - energetics and industrial welding processes
- NDT testing
- Fluid mechanics

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



Contact Us

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