Versatile Illumination system High-Speed Imaging



Illumination for Diverse Imaging Applications

Short-pulsed laser light source for general high-speed imaging with flexible options







Fire FLY 500-S model

The compact, short-pulsed laser light source form Oxford Lasers

Multiple light delivery options

Wide range of accessories available



Affordable, Compact, Flexible, Robust and Reliable. The Fire FLY 500-S is our most versatile short-pulsed laser illumination model..

Designed with a simple interface that synchs 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.



Applications

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

Features

- High output power for bright subject illumination
- 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.



Accessory and upgrade options Light guide delivery 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

Technical Specifications

Name	FireFLY500-S laser
Wavelength	808nm
Laser Power	500W (at the diode)
Pulse Duration Range	50ns - 100µs (1% duty cycle limited)
Minimum Separation	330ns
Maximum Pulse Frequency	100,000Hz
Burst frequency	3,000,000Hz
Number of pulses per burst	254
Laser Class	laser class 4
Voltage	100 to 240VAC
Frequency	50/60Hz
Dimensions	
Head	205mm x 125mm x 70mm
Controller	270mm x 200mm x 65mm

For over 45 years, Oxford Lasers have been working at the leading edge of laser technology. Providing products and services to a variety of industries for the advancement of production processes, R&D and development applications.

Contact Us

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