

Versatile Illumination system

High-Speed Imaging

Fire *FLY500-S*

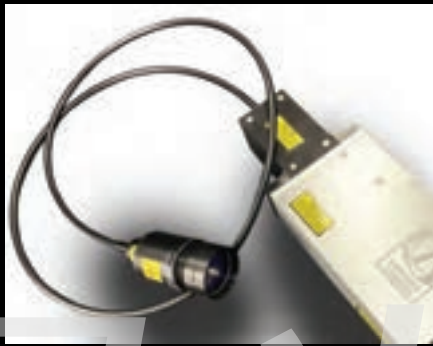
Illumination for Diverse Imaging Applications

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



Fire *FLY500-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*FLY500-S* is our most versatile short-pulsed
laser illumination model.

Designed with a simple interface that syncs 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

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	Fire <i>FLY</i> 500-Slaser
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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