

SpitLight

Scientific Lasers



A company geared to innovation

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InnoLas Scientific Lasers

The InnoLas SpitLight series of solid state lasers is a newly developed product family of Nd:YAG lasers for a wide range of applications. InnoLas SpitLight lasers combine the latest laser technology, high performance, and reliability to make a powerful tool for your laser application. The monolithic design of the laser head provides the highest thermal and mechanical stability available. The close coupled ceramic pump chamber ensures efficient pumping and minimises unwanted thermal effects to the beam parameters. The state of the art power supply delivers the pump energy precisely and efficiently to the laser head. This smart technology results in an excellent beam profile and energy stability.

InnoLas offers five families of q-switched Nd:YAG-Lasers

- * **SpitLight-DPSS** (Diode pumped solid state lasers)
- * **SpitLight-Hybrid** (Diode pumped resonator with flash lamp pumped amplifier)
- * **SpitLight-Compact** (Flashlamp or diode pumped systems with compact laser head)
- * **SpitLight-Standard** (Flashlamp pumped lasers)
- * **SpitLight-High Power** (Flashlamp pumped laser up to 2 J)



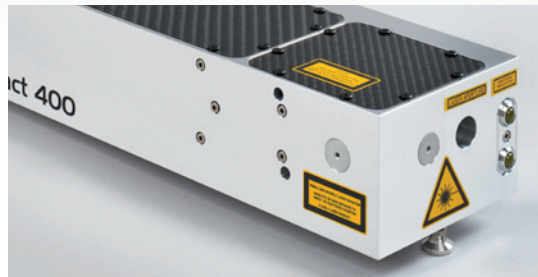
Product Overview (Extract)



SpitLight Hybrid II

Features

- * Compact laser head and power supply with small footprint
- * Robust and stable resonator structure
- * Quick and easy change of flashlamps
- * Maintenance-free pumping chamber with ceramic reflector
- * Excellent beam quality and pointing stability
- * Long flashlamp lifetime
- * Double pulse option available
- * System can be injection seeded (SLM-Option)



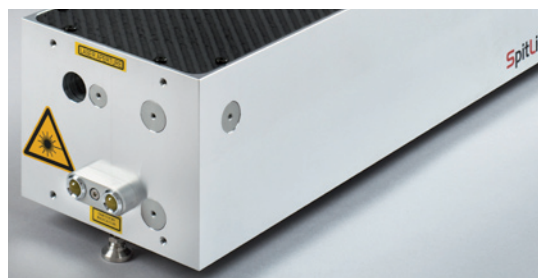
SpitLight Compact 400

Applications

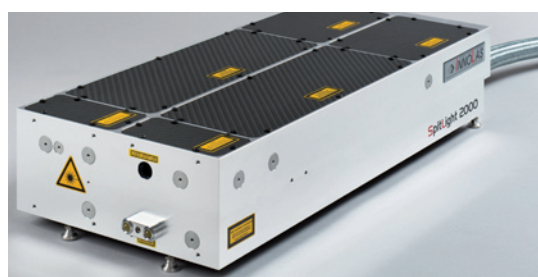
- * Spectroscopy
- * Particle image velocimetry (PIV)
- * Laser-induced fluorescence (LIF)
- * Laser-induced breakdown spectroscopy (LIBS)
- * Laser ablation
- * Pumping OPOs (optical parametric oscillator)
- * Dye Lasers
- * Light detection and ranging (LIDAR)



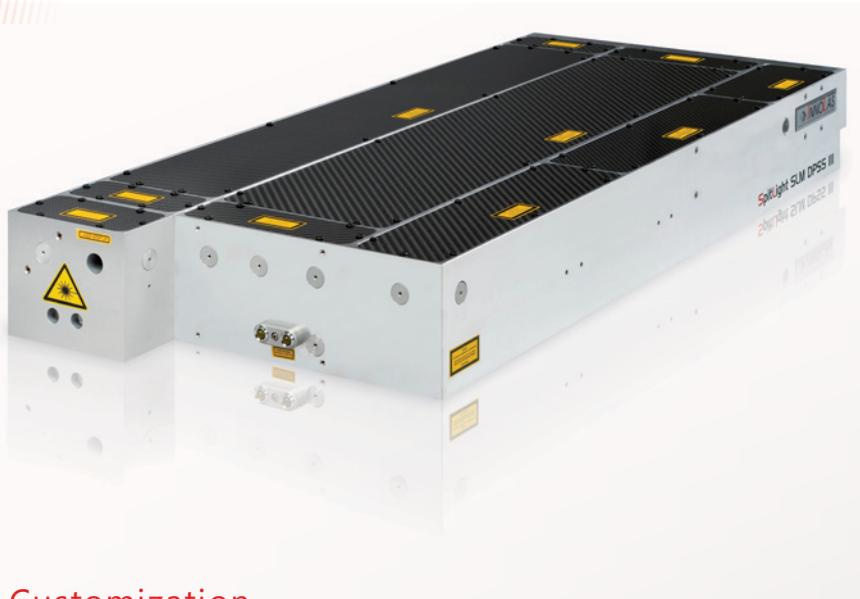
SpitLight Compact PIV



SpitLight 600



SpitLight 2000



Customization

Since today's demanding applications deserve optimized laser parameters, we do not only sell off-the-shelf products. We can tailor our laser design, hard- or software to perfectly fit your individual application needs. Umbilical lengths up to 20 m, quick disconnectors, seeding, customised amplifiers, motorisation, beam profile optimisation and many more – the SpitLight series offers a variety of solutions for your application.



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