



## Short Pulse Optical Technology



### Short Pulse. Low Jitter. Compact design

Elforlight SPOT lasers provide a source of short optical pulses at infrared, green and ultraviolet wavelengths. IR pulses are specified at <2ns (typically 1.5ns), green pulses at < 1.8ns (typically 1.4ns) at repetition rates up to 20kHz.

Model	<u>SPOT-10-500-1064</u>	<u>SPOT-10-200-532</u>	<u>SPOT-10-100-355</u>
Maximum pulse energy	50 $\mu$ J	20 $\mu$ J	10 $\mu$ J
Minimum pulse width	<2ns	<1.8ns	<1.5ns
Repetition rate	single shot to >50kHz		
Jitter	<+/-1ns from external trigger input (typ. 0.5ns)		
Mode	TEM <sub>00</sub> , M <sup>2</sup> <1.2		
Beam diameter (at waist)	~100 $\mu$ m		
Laser head size	220mm x 122mm x 60mm	220mm x 122mm x 60 mm	
Controller size	350mmx 260mm x 120mm		
Cooling	Air cooled		
Power requirement	100 - 240 VAC, 50 / 60 Hz Universal input <100 Watts		
Frequency control	TTL trigger input required at up to 50kHz		
Applications include	Micromachining, ranging, nonlinear optics, plasma generation, MALDI, seeding laser amplifiers, LIDAR, Supercontinuum generation		

Specifications subject to change in line with continuous product improvement program