

SHORT PULSE OPTICAL TECHNOLOGY



Elforlight SPOT lasers produce pulse widths of < 2ns at repetition rates from single shot up to >50 kHz.

The short pulses are created by a combination of short cavity lengths and a novel fast electro-optic q-switching technique.

Applications include laser induced fluorescence, time resolved fluorescence, micromachining, biotechnology, plasma generation, remote sensing, photo acoustic imaging, MALDI mass spectrometry and MALDI imaging.

Model Name	SPOT-10-500-1064	SPOT-10-100-532	SPOT-10-200-532	SPOT-10-100-355
Wavelength	1064nm	532nm	532nm	355nm
Maximum Pulse Energy @ $\leq 10\text{kHz}$	50 μJ	10 μJ	20 μJ	10 μJ
Minimum Pulse Width	< 2ns	< 1.8ns	< 1.8ns	<1.5ns
Repetition Rate	Single shot to > 50kHz			
Jitter	< +/- 1ns from external trigger input (typ.0.5ns)			
Power Stability	<+/- 2 % over 8 hours			
Spatial Mode	TEM ₀₀ , M ² < 1.2			
Beam Diameter	~ 1mm			
Operating temp.	10-35 deg. C			
Laser Head Size	220mm long x 122mm x 60mm			
Controller Size	350mmx 260mm x 120mm			
Frequency Control	TTL trigger input required at up to 50kHz			
Cooling	Air cooled			
Power requirement	100 - 240 VAC, 50 / 60 Hz Max 100W			

