

## SHORT PULSE OPTICAL TECHNOLOGY

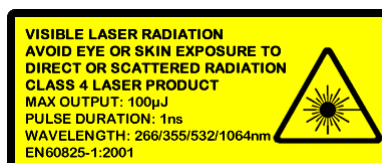


Elforlight SPOT lasers produce pulse widths of < 2ns at repetition rates from single shot up to >50 kHz.

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	SPOT-10-20-266
Wavelength	1064nm	532nm	532nm	355nm	266nm
Maximum Pulse Energy @ $\leq 10$ kHz	50 $\mu$ J	10 $\mu$ J	20 $\mu$ J	10 $\mu$ J	2 $\mu$ J
Minimum Pulse Width	< 2ns	< 1.8ns	< 1.8ns	< 1.5ns	< 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 <sub>00</sub> , M <sup>2</sup> < 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				



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