

SPOT DPSS Lasers

actively Q-switched DPSS lasers with short pulse output, pulse widths <2 ns



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

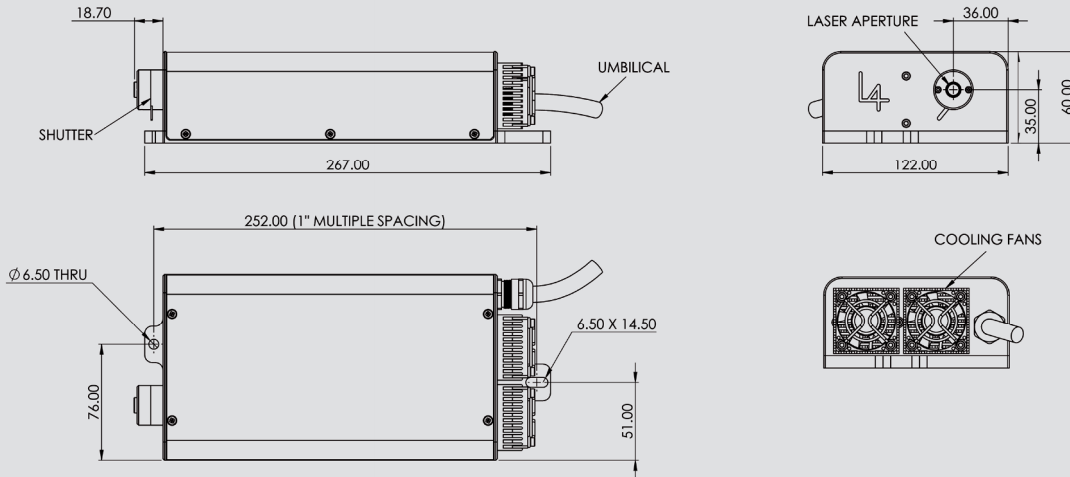
The short pulses are created by a combination of short cavity lengths and a novel fast electro-optic q-switching technique. Depending on the application and customer requirements, two controllers are available.

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

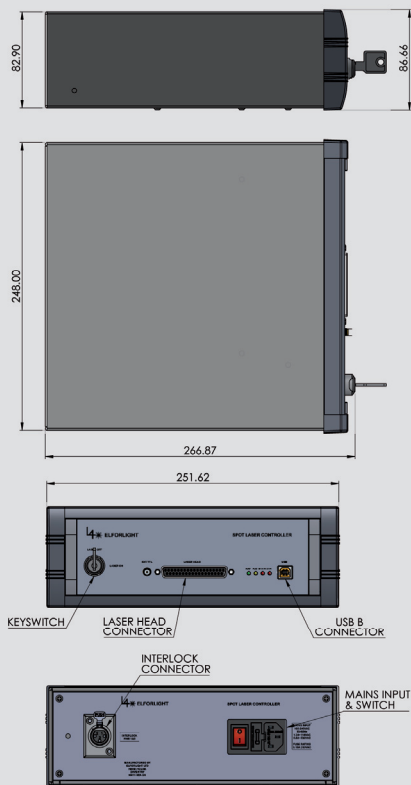
Model Name	SPOT-10-500-1064	SPOT-10-100-532	SPOT-10-200-532	SPOT-10-100-355
Wavelength	1064nm	532nm	532nm	355nm
Maximum Pulse Energy @ ≤ 10kHz	50μJ	10μJ	20μJ	10μJ
Minimum Pulse Width	< 2ns	< 1.8ns	< 1.8ns	<1.5ns
Repetition Rate	Single shot to > 50kHz			
Jitter	< +/- 1ns from external trigger input (typ.0.5ns)			
Power Stability	< 11 +/- 2 % over 8 hours			
Spatial Mode	TEM00, M2 < 1.2			
Beam Diameter	~ 1mm			
Operating temp.	10–35 deg. C			
Laser Head Size	220 mm long × 122mm × 60mm			
Controller Size	266mm × 251mm × 86mm			
Frequency Control	TTL trigger input required at up to 50kHz			
Cooling	Air cooled			
Power requirement	100 - 240 VAC, 50 / 60 Hz Max 200W			



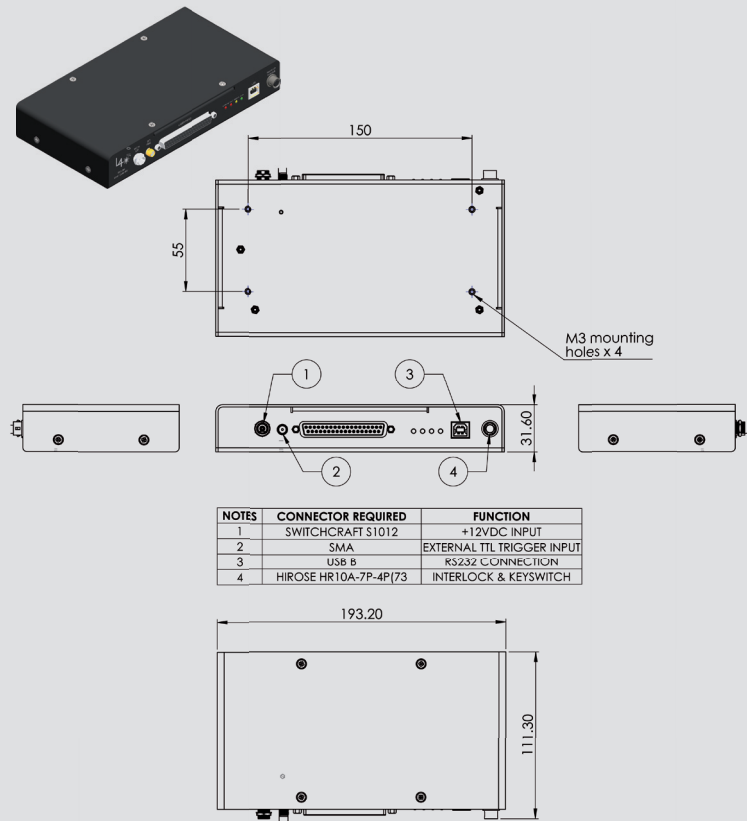
main dimensions [mm] Laser Head



main dimensions [mm] Power Supply



main dimensions [mm] Power Supply



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info@amstechnologies.com
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