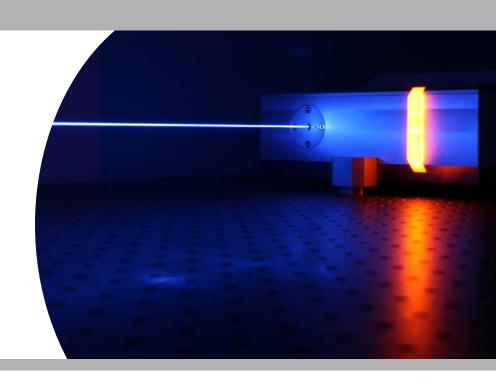


SLM 213

Single longitudinal mode TEMoo beam profile Q-switched solid-state laser Wavelengths 213 nm



General description

The SLM 213 is a single-frequency all-solid-state laser system for applications in the deep UV such as optical metrology, calibration of spectrometers or highest quality fiber Bragg grating fabrication. The spectral bandwidth of less than 100 MHz is near its theoretical Fourier limit.

The laser provides short output pulses with a duration of 6 - 8 ns in a diffraction-limited beam with $M^2 < 1.6$ at repetition rates between 1 and 15 kHz. The average output power is up to 100 mW at 213 nm with ultra-stable pulse traces and a high coherence length of more than 1.5 m not presentable with conventional lasers.

Product specifications		
Model	SLM 213	
Wavelength	213 nm	
Average power	100 mW	
Pulse duration (typ)	6-8 ns	
Energy per pulse	10 μJ	
Repetition rate	1-15 kHz	
M ²	< 1.6	
Spectral bandwidth	< 100 MHz	
Coherence length	> 1.5 m	

^{*} Data at 10 kHz pulse repetition rate. Specifications are subject to change without notice due to product improvement.

Applications

FBG writing
Spectrometer calibration
Lithography
Interferometry
Raman spectroscopy
Metrology

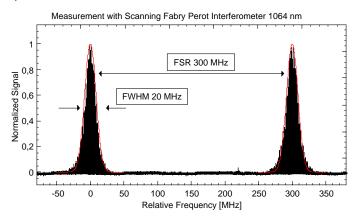
Optional

Graphical user interface LabVIEW libraries CDRH complience shutter

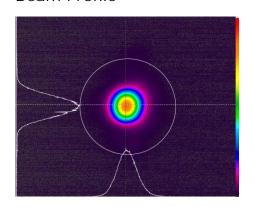


Typical performance

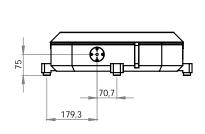
Spectral Bandwidth

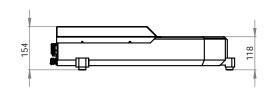


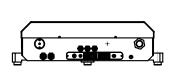
Beam Profile

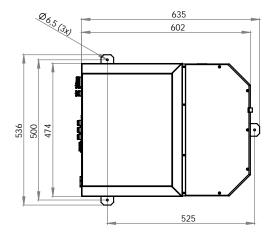


Dimensions laser head









System dimensions (L x W x H), weight

	•	
Laser head	635 x 536 x 154 mm ³	54 kg
Power supply (including chiller)	600 x 600 x 600 mm ³	78 kg

Electrical characteristics		
Operating voltage	85-264 VAC	
Frequency	47-63 Hz	
Power consumption	650 W typ	

Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.

Class 4 laser (IEC 60825-1)



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