

FTSS Dye Laser

New Solid State Laser Pumped Tunable Dye Laser System

400 - 900 nm with option of frequency doubling for 205 - 400 nm

- 355 nm DPSS Laser Pump
- Repetition Rate up to 100 Hz
- Dye Laser in Different Resonator Designs
- Narrow Linewidth Operation
- Free Beam or Multimode Fiber-Coupling
- Tuning Range for Each Dye Cell from 15 nm up to 70 nm
- Manually Tuning of Dye Laser and SHG
- Variable Laser Configuration by Flip Mirrors
- SHG Unit, Dye and Pump Laser as Compact Unit
- Computer Controlled Laser and SHG Tuning (optionally)
- Easy Wavelength Change



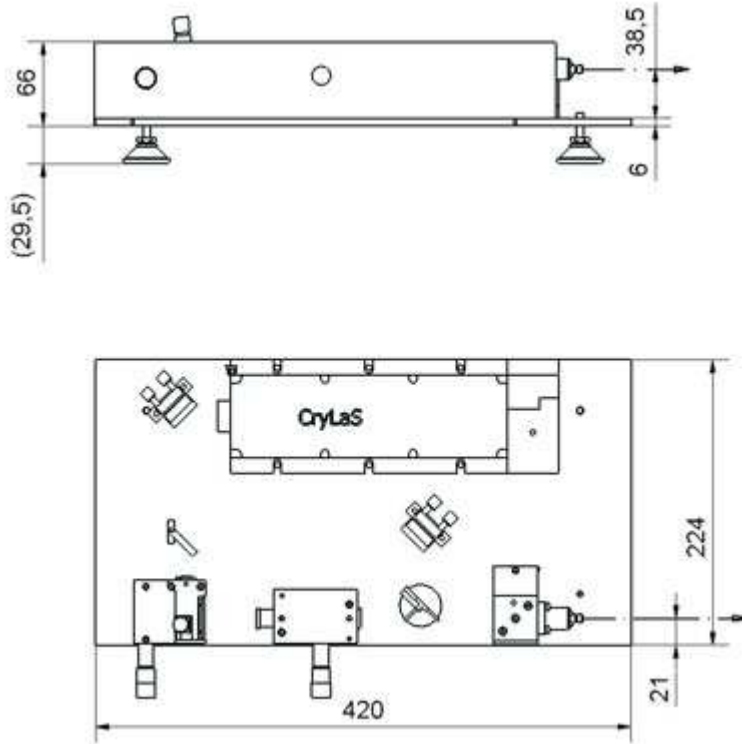
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Basic System	- DPSS-Pump-Laser FTSS 355-50			
	- Dye Laser			
UDL dye laser		100	200	300
Pump wavelength	(nm)	355	355	355
Max. pump energy	(µJ)	70 -100	70 -100	70 -100
Typ. Conversion efficiency	%	25	20	3
Wavelength range	(nm)	400 - 900	400 - 900	400 - 900
Spectr. Bandwidth	(nm)	5 - 8	≤ 2	≤ 0,1
Resonator configuration		Two plan-mirror	Littrow mounting	Grazing incidence
Max. repetition rate	(Hz)	20 *	20 *	20 *

Options	• Frequency doubling unit SHG 1 integrated in the dye laser set-up wavelength range from 225 nm - 400 nm ; conversion efficiency 8 %
	• Frequency doubling unit SHG 2 integrated in the dye laser set-up wavelength range from 205 nm - 225 nm ; conversion efficiency 6 %
	• Fibre coupled output SMA-connector; 400 µm Quartz fibre 1 m long; output efficiency 70 %
	• Automated tuning Tuning of the dye laser / frequency doubling unit via PC

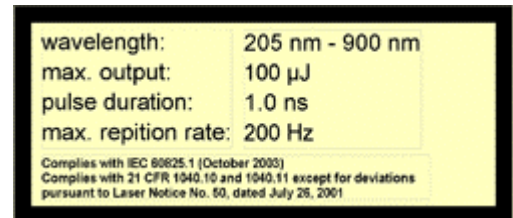
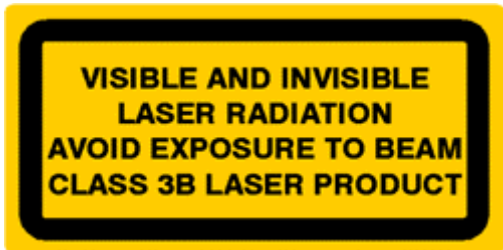
* Higher repetition rates require a dye cell with internal circulator or circulating system with pump unit !

Dimensions:



Safety Label

The FTSS Dye Laser are class 3B according to IEC 60825-1.



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