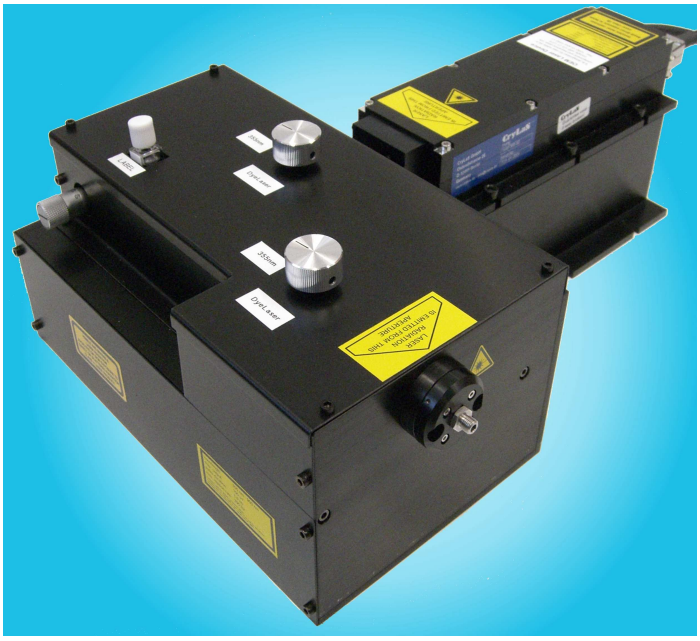
FTSS Dye Laser

New Solid State Laser Pumped Tunable Dye Laser System

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

- 355nm DPSS Laser Pump
- Repetition Rate up to 200Hz
- Dye Laser in Different Resonator Designs
- Narrow Linewidth Operation
- Free Beam or Multimode Fiber-Coupling
- Tuning Range for Each Dye Cell from 15nm up to 70nm
- 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 *

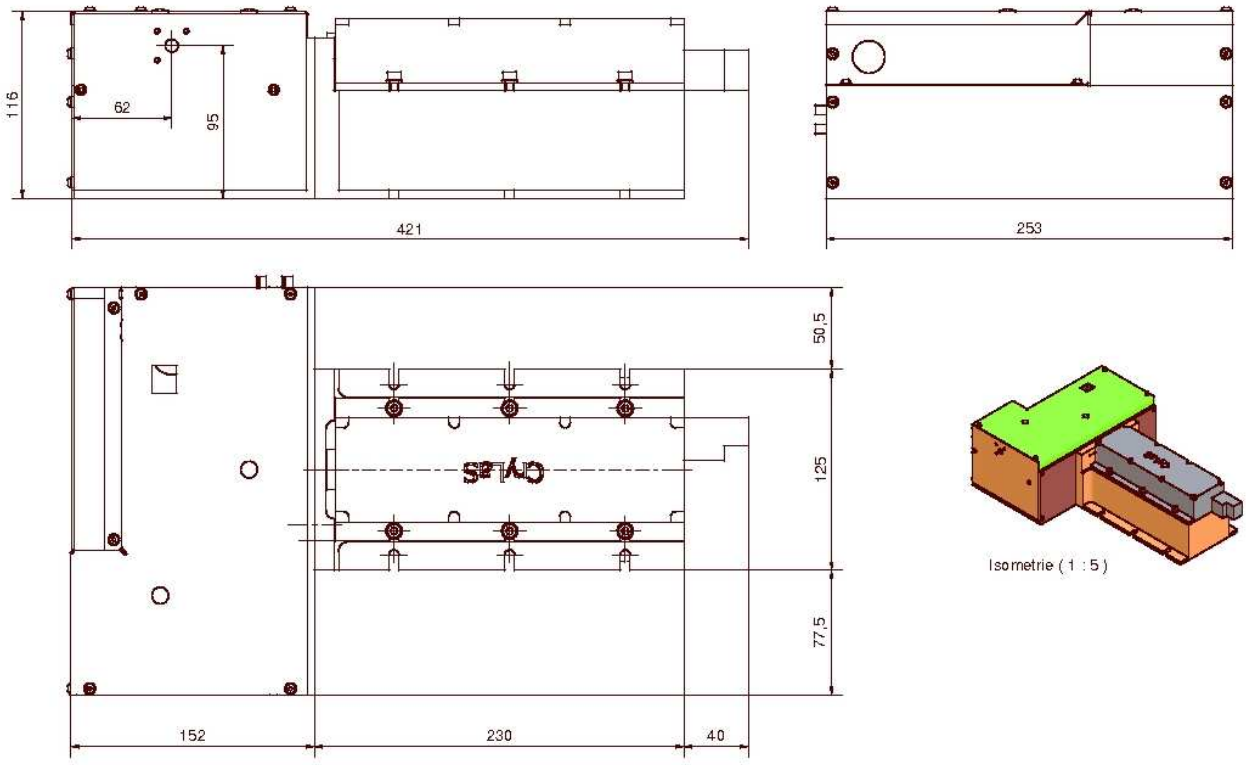
Options

- **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 1m 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 !

CRYLAS GmbH · Ostendstr. 25 · D-12459 Berlin · Fon +49(0)30-53 04-2400 · Fax +49(0)30-53 04-2444 · info@crylas.de · www.crylas.de

Dimensions:



Safety Label