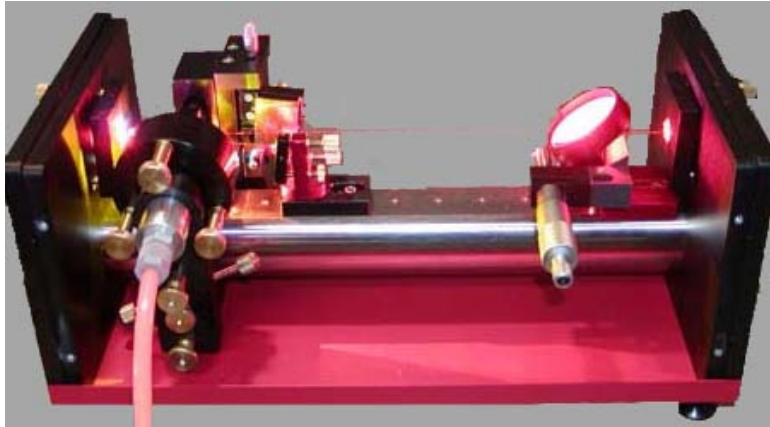


Radiant Dyes Laser Accessories GmbH

Standing wave Dye-Laser and Ti:Sa Laser



This dye laser is based on our exchange unit for the Coherent 699 ring laser RDU 10 (nozzle holder and pump mirror adjustment).

We paid attention to it that the laser is easy to handle. By an adjustment with micrometer screws a very high reproducibility is guaranteed. The laser is mounted on a 50 mm invar rod and the dimensions allow a later installation of the etalon for single

mode operation. It consists of a 3-mirror-resonator, wavelength tuning is done by rotation of the Lyot-filter.

The standard laser is equipped with a 0.2 mm low pressure nozzle in connection with our dye circulator RDN 2000 CW.

An advantage is the simple laser dye change by a reproducible exchange of the complete nozzle holder with nozzle and dye circulator.

The further advantages of the RD-cw-linear dye laser are:

- Compact and stable resonator configuration
- Simple, fast and reproducible adjustment
- Good efficiency

Tuning range Dye: (Other ranges are possible by exchanging the mirrors.)	400 - 700 nm
Specifications for Rhodamine 6G	
Conversion efficiency (Peak Rhodamin 6G):	< 25%

Tuning range Ti:Sa: (Other ranges are possible by exchanging the mirrors.)	750-900 nm
Conversion efficiency (Peak Ti:Sa)	~ 10%

Linewidth: with single stage Lyot-Filter:	< 200 GHz
with multiple stage Lyot-Filter:	< 40 GHz
Divergence:	< 1.5 mrad
Beam diameter:	< 1.3 mm
Stability of the output power (at constant pump power):	< 0.02/h