

NarrowAmp Pulsed Dye Amplifier



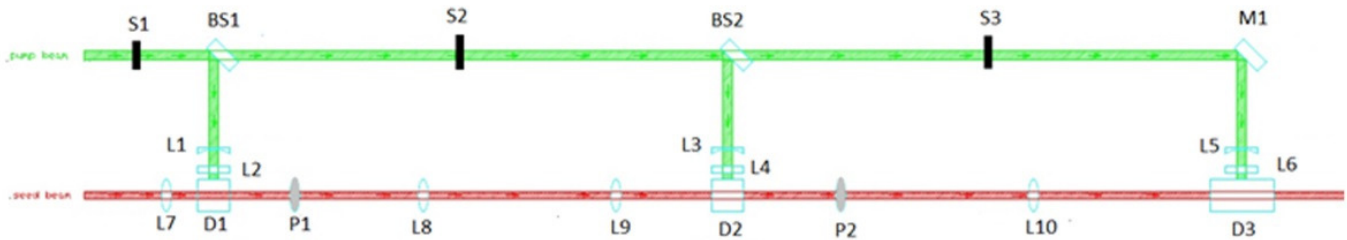
Features:

- * Generates single mode pulses from cw radiation
- * 2 - 3 amplifier stages with Bethune cell option
- * Special ASE-filter system for ASE reduction
- * Compatible with NarrowDiode laser
- * Easy and fast dye change
- * High-precision mechanical components

Radiant Dyes Laser Acc. GmbH

Specifications of NarrowAmp:

Optical Layout



Beam and wavelength specifications:

Tuning range	540 nm - 800 nm
Linewidth	approx. < MHz 100 mS (dependent on pump laser)
Output pulse energy	> 9 mJ @ 730 nm (pumped 45 mJ @ 532 nm)
Power stability	< 6 %
Pointing stability	< 50 μ rad
Divergence	< 0.5 mrad
Isolation between cw laser and pulse laser	> 30 dB
Pump optics	355 nm & 532 nm

Pump energy calculation:

Seed power	Maximal amplification with 30% dye conversion	Recommended pump energy
100 mW	50 mJ	200 mJ
75 mW	37 mJ	150 mJ
50 mW	25 mJ	100 mJ
40 mW	20 mJ	80 mJ
30 mW	15 mJ	60 mJ
20 mW	10 mJ	40 mJ

Dimensions

1100 x 420 x 190 mm



All specifications are subject to change without notice

Radiant Dyes Laser & Acc. GmbH,
 Friedrichstr. 58, 42929 Wermelskirchen, Germany
 Tel: 0049 (0)2196-81061, Fax: 0049 (0)2196-3422
<http://www.radiant-dyes.com>, E-mail: info@radiant-dyes.com

