

NarrowScan with integrated SpitLight DPSS



Features:

- * 1 - > 20 kHz repetition rate
- * 1 - 200 mJ pump energy @ 532/355 nm
- * Small size
- * Stable design
- * Easy and fast dye change
- * High-precision mechanical components

Radiant Dyes Laser Acc. GmbH

Specifications with Innolas SpitLight DPSS:



Pump energy of Spitlight Compact DPSS 100 Hz:

Wavelength	DPSS 30	DPSS 100	DPSS 250
532 nm	15,0 mJ	60 mJ	125 mJ
355 nm	7,5 mJ	30 mJ	70 mJ

Output energy of NarrowScan single grating 2400l/mm:

Wavelength	DPSS 30	DPSS 100	DPSS 250	Dye and process
205 nm	0,13 mJ	0,5 mJ	1,0 mJ	THG of RhB+Rh110
280 nm	0,75 mJ	3,0 mJ	6,0 mJ	SHG of Rh6G
398 nm	1,3 mJ	5,1 mJ	12,0 mJ	Exalite 398
440 nm	1,0 mJ	4,2 mJ	10,0 mJ	Coumarin 120
565 nm	4,2 mJ	16,8 mJ	35,0 mJ	Rh6G
640 nm	3,8 mJ	15,0 mJ	31,0 mJ	DCM
700 nm	3,0 mJ	12,0 mJ	25,0 mJ	Pyridine1

Configurations:

NarrowScan	Grazing Grating	Tuning Element	Tuning Range	Bandwidth [cm-1]
Single Grating	1800 l/mm	Mirror	370 – 900 nm	≤ 0,07 @ 580 nm
Single Grating	2400 l/mm	Mirror	370 – 740 nm	≤ 0,06 @ 580 nm
Single Grating	3000 l/mm	Mirror	370 – 610 nm	≤ 0,05 @ 580 nm
Double Grating	1800 l/mm	1800 l/mm	370 – 850 nm	≤ 0,05 @ 625 nm
Double Grating	2400 l/mm	2400 l/mm	370 – 710 nm	≤ 0,04 @ 580 nm
Double Grating	3000 l/mm	3000 l/mm	370 – 580 nm	≤ 0,03 @ 570 nm

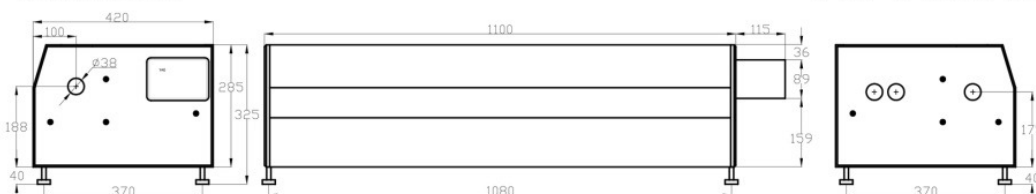
Beam and wavelength specifications:

Wavelength reproducibility @ 580 nm	< 0,0025 nm (typically < 0,0009 nm)*
Absolute accuracy of the wavelength @ 580 nm	< 0,02 nm (typically < 0,01 nm)*
Wavelength stability	< 0,001 nm/°C
Divergence	0,5 mrad
Polarization	> 98 %
ASE-background	< 0.5 %

* temperature stabilized

Dimensions

1215 x 420 x 325 mm



All specifications are subject to change without notice

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