

Radiant Dyes Laser Acc. GmbH

NarrowScan with integrated SpitLight Standard



Features:

- * 1-50 Hz repetition rate
- * 240-600 mJ pump energy @ 532 nm
- * Small size
- * Stable design
- * Easy and fast dye change
- * High-precision mechanical components

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Specifications with Innolas SpitLight Standard:



Pump energy of Spitlight Standard 10 Hz:

Wavelength	Standard 400	Standard 600	Standard 1000.1
532 nm	240 mJ	480 mJ	600 mJ
355 nm	120 mJ	240 mJ	320 mJ

Output energy of NarrowScan single grating 2400l/mm:

Wavelength	Standard 400	Standard 600	Standard 1000.1	Dye and process
205 nm	2,9 mJ	1,7 mJ	2,9 mJ	THG of RhB+Rh110
280 nm	14,4 mJ	8,4 mJ	14,0 mJ	SHG of Rh6G
398 nm	21,6 mJ	43,2 mJ	57,6 mJ	Exalite 398
440 nm	15,6 mJ	31,2 mJ	41,6 mJ	Coumarin 120
565 nm	72,0 mJ	144,0 mJ	180,0 mJ	Rh6G
640 nm	67,2 mJ	134,4 mJ	168,0 mJ	DCM
700 nm	48,0 mJ	96,0 mJ	120,0 mJ	Phyridine1

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

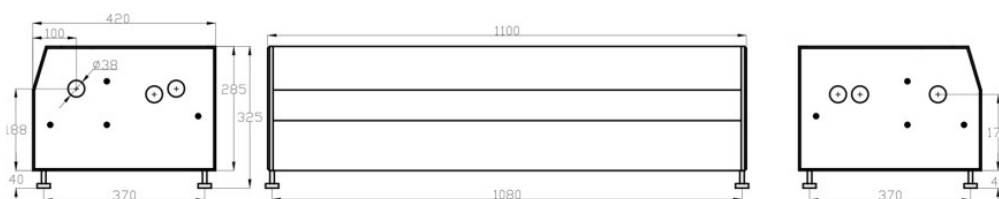
Beam and wavelength specifications:

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

1100 x 420 x 325 mm



All specifications are subject to change without notice

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