

Radiant Dyes Laser Acc. GmbH

NarrowScan with integrated SpitLight Compact



Features:

- * 1-20 Hz repetition rate
- * 60-240 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 Compact:



Pump energy of Spitlight Compact 10 Hz:

Wavelength	Compact 100	Compact 200	Compact 400
532 nm	60 mJ	140 mJ	240 mJ
355 nm	25 mJ	70 mJ	120 mJ

Output energy of NarrowScan single grating 2400l/mm:

Wavelength	Compact 100	Compact 200	Compact 400	Dye and process
205 nm	0,7 mJ	1,7 mJ	2,9 mJ	THG of RhB+Rh110
280 nm	3,6 mJ	8,4 mJ	14,4 mJ	SHG of Rh6G
398 nm	4,5 mJ	12,6 mJ	21,6 mJ	Exalite 398
440 nm	3,3 mJ	9,1 mJ	15,6 mJ	Coumarin 120
565 nm	18,0 mJ	42,0 mJ	72,0 mJ	Rh6G
640 nm	16,8 mJ	39,0 mJ	67,2 mJ	DCM
700 nm	12,0 mJ	28,0 mJ	48,2 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:

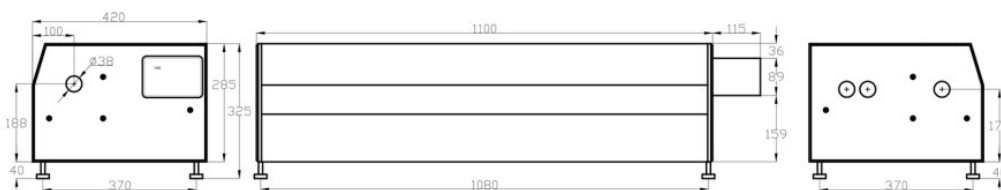
Wavelength reproducibility @ 580 nm
 Absolute accuracy of the wavelength @ 580 nm
 Wavelength stability
 Divergence
 Polarization
 ASE-background

< 0,0025 nm (typically < 0,0009 nm)*
 < 0,02 nm (typically < 0,01 nm)*
 < 0,001 nm/°C
 0,5 mrad
 > 98 %
 < 0.5 %

* temperature stabilized

Dimensions

1215 x 420 x 325 mm



All specifications are subject to change without notice

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