

NarrowScan High Rep.



Our NarrowScan series with polarization matched oscillator is ideal for multi kHz, Q-switched pump sources. The high power dye laser output with high spectral purity and stability can be frequency doubled with high conversion efficiency.

NarrowScan Version 0 – 20 KHz

- Oscillator and amplifier in two separate dye cells
- Repetition rates up to 15 KHz possible (higher rep rates may be possible, but have not been tested yet)
- Single or double grating versions available
- C++ and LabView software
- External FCU with autotracker and look-up table as option
- Internal bandwidth monitoring as option

<i>Output power when pumped by Edgewave IS12IIE</i>	<i>IS12IIE 10 kHz</i>	<i>NarrowScan High Rep. @ 10kHz</i>	
		<i>Fundamental</i>	<i>2nd harmonic</i>
Wavelength	532 nm	568 nm	284 nm
Repetition Rate	10 kHz	10 kHz	10 kHz
Pulse Energy	6 mJ	1,7 mJ	0.17 mJ
Average Power	60 W	17 W	1.7 W
Pulse Length	7 ns	5 ns	
Bandwidth single Grating (2400 l / mm)		< 0.06 cm ⁻¹	
Bandwidth double Grating 2 x (2400 l / mm)		< 0.04 cm ⁻¹	

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<i>Output power when pumped by Quantronix Laser</i>	<i>Pumplaser</i>	<i>NarrowScan High Rep. @ 8kHz</i>	
		<i>Fundamental</i>	<i>2nd harmonic</i>
Wavelength	532 nm	568 nm	284 nm
Repetition Rate	8 kHz	8 kHz	8 kHz
Pulse Energy	12,5 mJ	1,15 mJ	0.07 mJ
Average Power	100 W	9,2 W	500mW
Pulse Length	120 ns	80 ns	
Repetition Rate	5 kHz	5 kHz	5 kHz
Average Power	100 W	15,5 W	1,2 W
Pulse Energy	20 mJ	3 mJ	0.34 mJ

NarrowScan Version 0 – 5 KHz

- Oscillator and amplifier in one dye cell
- Repetition rates up to 5 KHz possible
- Single or double grating versions available
- C++ and LabView software
- Internal FCU with autotracker and look-up table as option
- **Internal bandwidth monitoring as option**

	<i>IS12IIE</i>	<i>NarrowScan High Rep.</i>	
		<i>fundamental</i>	<i>2nd harmonic</i>
Wavelength	532 nm	595 nm	297.5 nm
Repetition Rate	5 kHz	5 kHz	5 kHz
Pulse Energy	8 mJ	2 mJ	0.24 mJ
Average Power	40 W	10 W	1.2 W
Pulse Length	7 ns	5 ns	
Bandwidth single Grating (2400 l / mm)		< 0.06 cm ⁻¹	
Bandwith double Grating 2 x (2400 l / mm)		< 0.04 cm ⁻¹	