primoScan DPSS

High End Optical Parametric Oscillator for DPPS Lasers



primoScan Specification

primoScan Midband	/ULD-DPSS
Repetiton Rate	100 Hz
Pump Energy	90 mJ
Output Energy at 450 nm	20 mJ
Output Energy at 345 nm	3.8 mJ
Output Energy at 260 nm	2.8 mJ
Beam Diameter at Exit Aperture	< 6.5 mm
Tuning Range OPO	405 – 2700 nm
Tuning Range UV ²	210 – 405 nm
Linewidth ³	3.5 cm ⁻¹ – 6 cm ⁻¹
OPO Pulse Width	0 – 3 ns < Pump
Beam Divergence (FWHM)	< 2.2 mrad
Wavelength Shift Time	<100 ms

1: at 450 nm

²: Depending on UV Options

 $^{\rm 3}$: Except deep UV < 300 nm linewidth < 8 cm $^{\rm -1}$



Features and Benefits

Fully integrated midband OPO with ultra-low divergence

Highest UV efficiency

Tuning range 210 - 2750 nm

Single output port for entire tuning range

Fully automated control standard

Fast shot-to-shot wavelength switching

Soft pumping scheme for high reliability and long lifetime

Applications

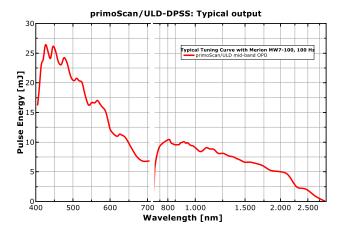
Material Analysis Laser induced fluorescence Combustion studies Remote sensing Multiphoton interactions Medical & Biotechnology

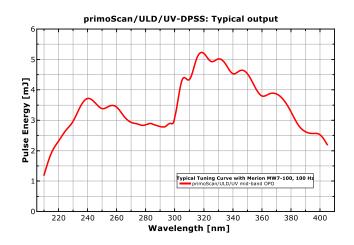
Notes

All specifications depend in the pump laser specifications and performance. Please contact the factory or our sales representatives for details. All specifications are subject to change without notice.

primoScan Performance

Typical performance with Lumibird Merion MW Laser, not a guaranteed or warranted specification



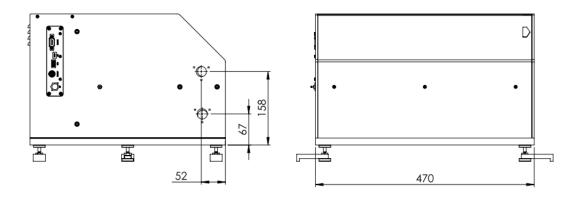


Pumplaser Requirements		
Wavelength	355 nm	
Energy	90 mJ	
Pulse Width	3.5 – 10 ns	
Repetition Rate	100 Hz	
Spatial Beam Profile	Homogeneous	
Divergence	< 1 mrad	

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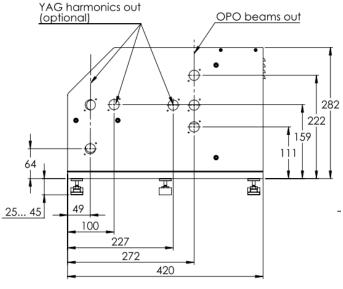
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front view





rear view

Mechanical + Utilities

Size OPO body (L x W x H): 470 x 420 x 317 mm³

Weight OPO body: 24 - 29 kg (depending on configuration)

Power requirements Electronics & Motorizers: 100 – 240 V, 50 – 60 Hz

For dimensions with feet please refer to the dimensional drawing

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