

# versaScan-L532

## 532 nm pumped Optical Parametric Oscillator



### versaScan-L532 Specification

versaScan-L532 Broadband	/BB/HE/230		/BB/HE/450	/BB/HE/800
Repetition Rate	10 Hz	20 Hz	10 Hz	10 Hz
Pump Energy	220 mJ	200 mJ	430 mJ	750 mJ
Output Energy (at 720 nm)	66 mJ	57 mJ	129 mJ	225 mJ
Beam Diameter at Exit Aperture	< 8 mm		< 11 mm	< 14 mm
Tuning Range Signal Wave	675 nm – 980 nm			
Tuning Range Idler Wave	1170 nm – 2440 nm			
Linewidth	45 cm <sup>-1</sup> – 200 cm <sup>-1</sup>			
OPO Pulse Width	0 – 3 ns < Pump			
Beam Divergence (FWHM)	7 mrad – 20 mrad			

versaScan-L532 Midband	/MB/230		/MB/450	/MB/670
Repetition Rate	10 Hz	20 Hz	10 Hz	10 Hz
Pump Energy	220 mJ	200 mJ	430 mJ	650 mJ
Output Energy (at 720 nm)	54 mJ	46 mJ	105 mJ	160 mJ
Beam Diameter at Exit Aperture	< 8 mm		< 11 mm	< 13 mm
Tuning Range Signal Wave	660 nm – 1000 nm			
Tuning Range Idler Wave	1140 nm – 2550 nm			
Linewidth <sup>1</sup>	8 cm <sup>-1</sup> – 20 cm <sup>-1</sup>			
OPO Pulse Width	0 – 3 ns < Pump			
Beam Divergence (FWHM)	Horizontal < 2 mrad, Vertical 7 – 18 mrad			

<sup>1</sup>: < 12 cm<sup>-1</sup> between 780 – 920 nm and 1250 – 1675 nm

### Features and Benefits

Modular and reliable design

High near IR energies

Soft pumping scheme for high reliability and long lifetime

Adaptable to most commercial Nd:YAG pump lasers

Broadband and midband options

### Applications

Photoacoustic Imaging

Remote Sensing

LIDAR

Vibrational

Spectroscopy

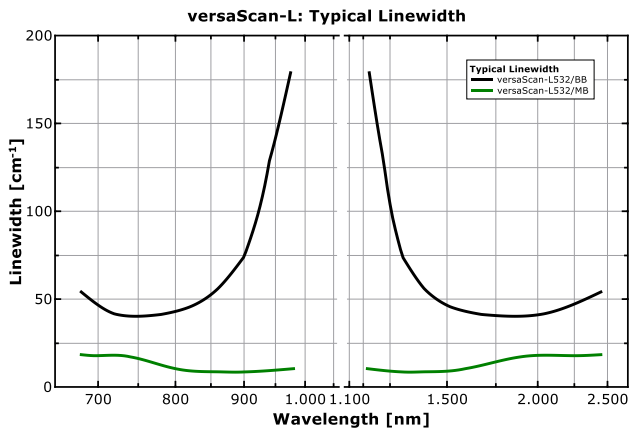
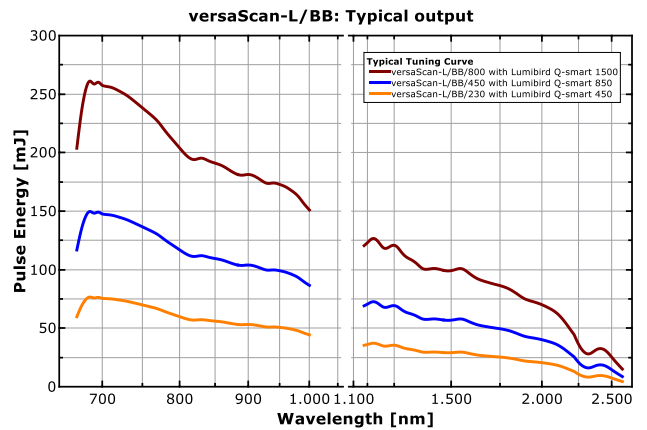
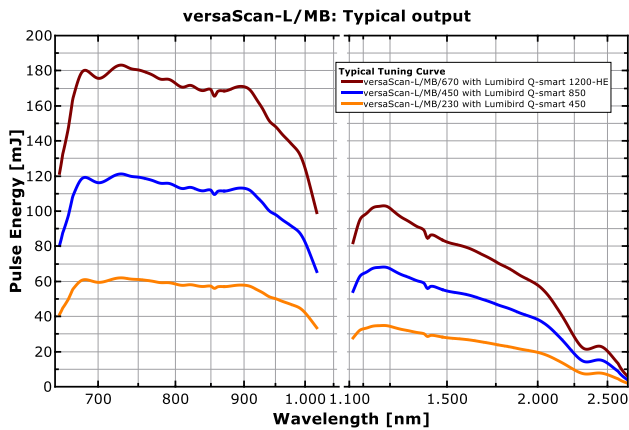
Medical & Biotechnology

### 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.

# versaScan-L532 Performance

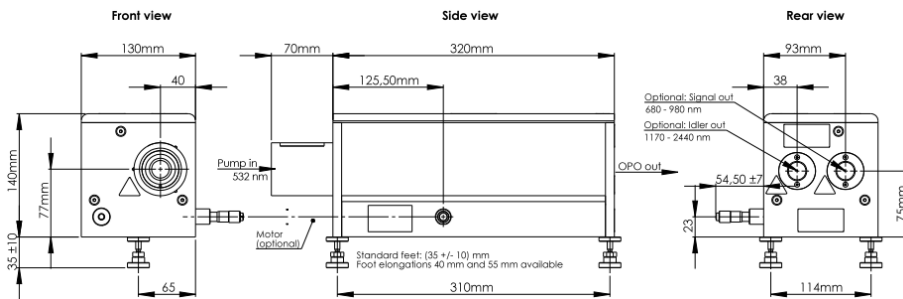
Typical performance with Lumibird Q-Smart Lasers, not a guaranteed or warranted specification



## Pump Laser Requirements

Wavelength	532 nm
Energy	80 – 800 mJ
Pulse Width	3.5 – 10 ns
Repetition Rate	1 – 400 Hz
Spatial Beam Profile	homogeneous
Divergence	< 0.5 mrad
Polarization	horizontal

## versaScan-L532 Dimensions and Properties



## Mechanical + Utilities

Size OPO body  
(L x W x H):  
320 x 130 x 140 mm<sup>3</sup>

Weight OPO body:  
6 kg

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

For dimensions with feet,  
micrometer screw and  
other protruding elements  
please refer to the  
dimensional drawing

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