

versaScan-DPSS

Tunable NIR Optical Parametric Oscillator for DPSS Lasers



versaScan-DPSS Specification

versaScan-DPSS	
Repetition Rate	100 Hz
Pump Energy at 532 nm	160 mJ
Output Energy at 750 nm	38 mJ
Beam Diameter at Exit Aperture	< 11 mm
Tuning Range Signal Wave	660 nm – 1000 nm
Tuning Range Idler Wave	1140 nm – 2550 nm
Linewidth	8 – 20 cm ⁻¹
Beam Divergence (FWHM)	Horizontal < 2.2 mrad, Vertical < 12 mrad

Pumplaser Requirements	
Wavelength	532 nm
Energy	160 mJ
Pulse Width	3.5 – 10 ns
Repetition Rate	100 Hz
Spatial Beam Profile	homogeneous
Divergence	< 1 mrad
Polarization	vertical ¹

¹: Integrated polarization rotator optionally available

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 DPSS pump lasers

Applications

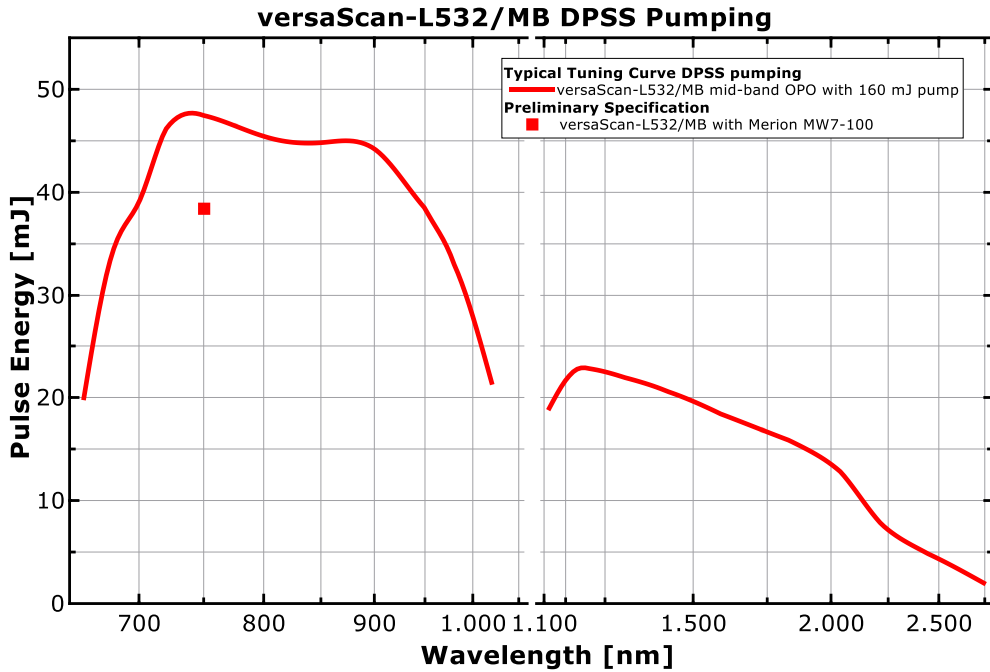
- Photoacoustic Imaging
- Remote Sensing
- LIDAR
- Vibrational Spectroscopy
- Medical & Biotechnology

Notes

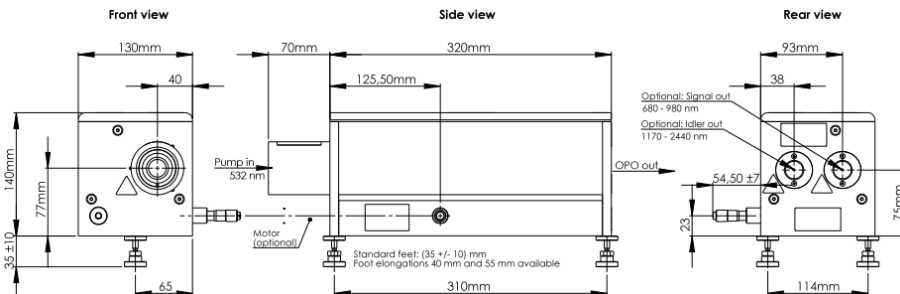
All specifications depend in the pump laser specifications and performance. Please contact the factory or our sales representatives for details. All specifications are subject to change without notice.

versaScan-DPSS Performance

Typical performance with Lumibird Merion MW 7 Lasers, not a guaranteed or warranted specification



versaScan-DPSS Dimensions and Properties



Mechanical + Utilities

Size OPO body
(L x W x H):
320 x 130 x 140 mm³

Weight OPO body:
6 kg