

versaScan-L532

Green-pumped Optical Parametric Oscillator



Modular, versatile BBO-OPO for the red and near IR spectral range

Features and Benefits

- Modular and reliable design
- Adaptable to most commercial Nd:YAG pump lasers
- Manual and motorized tuning selectable
- Broadband and midband options
- Frequency doubling optional
- Ideal for photoacoustic imaging and many other applications

versaScan-L532 Specifications

versaScan-L532 Broadband	200/BB	450/BB	800/BB	200/BB-HE	450/BB-HE	800/BB-HE
Pump Energy @ 532nm	200 mJ	450 mJ	800 mJ	200 mJ	450 mJ	800 mJ
Pulse Energy Max (S)	52 mJ	115 mJ	205 mJ	58 mJ	130 mJ	230 mJ
Pulse Energy Max (S+I)	68 mJ	150 mJ	270 mJ	76 mJ	172 mJ	305 mJ
Linewidth	40-180 cm ⁻¹			45-200 cm ⁻¹		
OPO Pulse Width	0-3 ns < pump					
Repetition Rate ¹	0-100 Hz	0-100 Hz	0-50 Hz	0-100 Hz	0-100 Hz	0-50 Hz
Tuning Range	680-960 nm, 1200-2200 nm			675-980 nm, 1170-2440 nm		
Beam Divergence	12-28 mrad					
Beam Diameter	<10 mm	14 mm	<17 mm	<10 mm	<14 mm	<17 mm

(1) With INDI pump laser max. repetition rate is 10 Hz, performance above 20 Hz contact factory

(2) Please reconfirm performance at pump energies exceeding 450 mJ

versaScan-L532 Midband	200/MB	450/MB	550/MB
Pump Energy @ 532nm	200 mJ	450 mJ	550 mJ
Pulse Energy Max (S)	45 mJ	100 mJ	122 mJ
Pulse Energy Max (S+I)	72 mJ	162 mJ	200 mJ
Linewidth ²	< 25 cm ⁻¹		
OPO Pulse Width	0-3 ns < pump		
Repetition Rate ¹	0-100 Hz	0-100 Hz	0-50 Hz
Tuning Range	660-1000 nm, 1140-2550 nm		
Beam Divergence	Horizontal <1 mrad, Vertical 12-28 mrad		
Beam Diameter	<10 mm	<14 mm	<15 mm

(1) With INDI pump laser max. repetition rate is 10 Hz, performance above 20 Hz contact factory

(2) < 12 cm⁻¹ @ 780-920 nm and 1250 - 1675 nm

(2) typical linewidth: 18 cm⁻¹ @ 680-750 / 1830 - 2440 nm; 9 cm⁻¹ @ 780-920 / 1250 - 1675 nm

uvScan

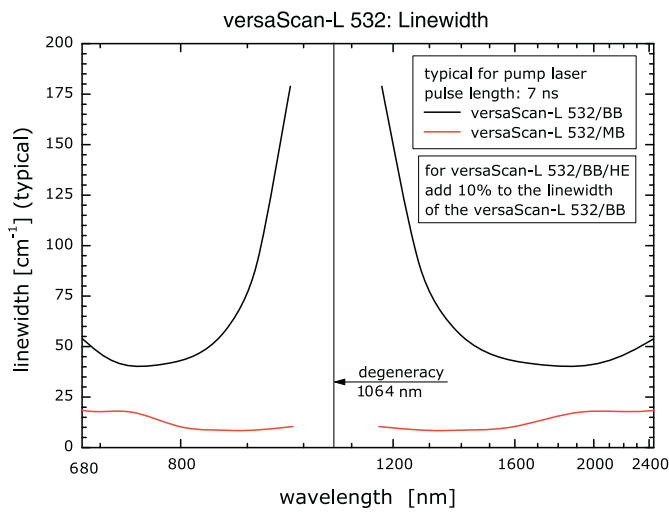
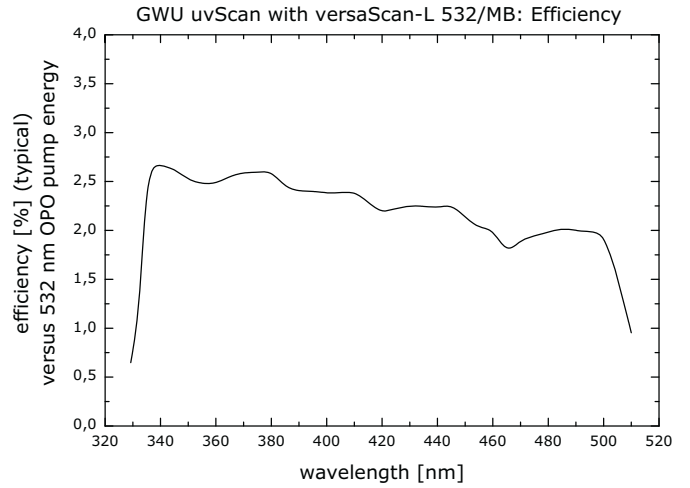
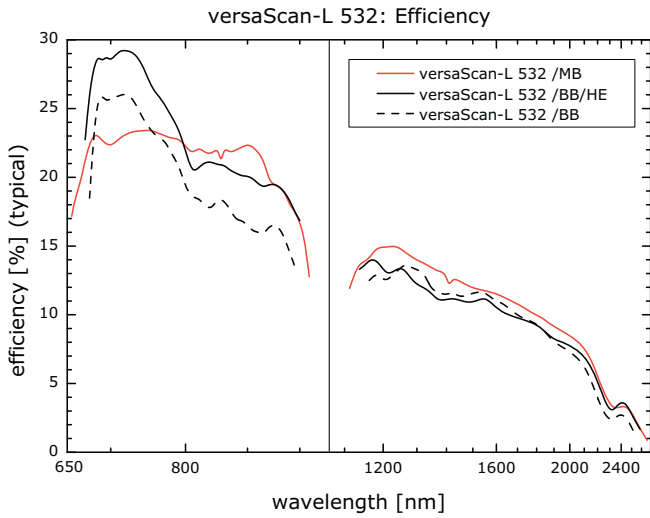
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Notes:

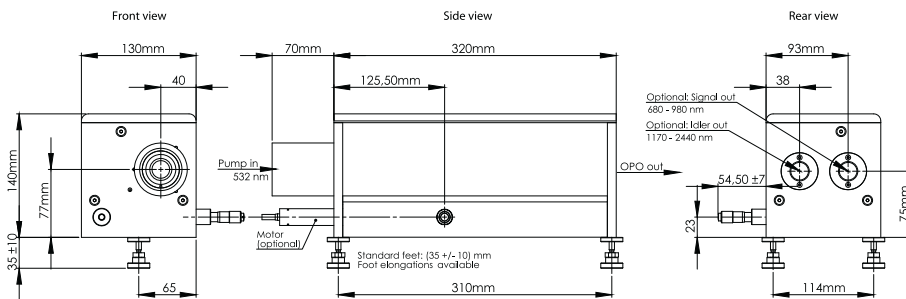
All specifications depend on pump laser specifications and performance. Please contact factory or your sales representative for details. All specifications subject to change without notice.

versaScan-L532 Performance



Pumplaser Requirements	
Pump Wavelength	532 nm
Pump Energy	80 - 800 mJ/pulse
Pulse Width	3,5 - 10 ns
Repetition Rate	1 - 100 Hz
Spatial Beam Profile	homogeneous
Divergence	<0,5 mrad (or on request)

versaScan-L532 Dimensions and Properties



Mechanical + Utilities

Size (L x W x H)
 OPO (body only)
 320 mm x 130 mm x 140 mm
 Electronics box (Option M)
 280 mm x 285 mm x 176 mm

Weight
 OPO body w/motor 6.0 kg
 Electronics box (Option M)
 5.2 kg max.

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 dimensional drawing.

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