

versaScan /BB /HE

Modular Optical Parametric Oscillator

NEW: >50% more efficient



Features and Benefits

- Optimized pump scheme for high efficiency and reliability
- Adaptable to most commercial Nd:YAG pump lasers
- Manual and motorized tuning selectable
- Best suited for most laboratory, industrial, or field applications demanding high pulse energies

OPO Model versaScan	/BB /HE /120	/BB /HE /170	/BB /HE /240	/BB /HE /320
Max. Pump Energy @ 355 nm	120 mJ	170 mJ	240 mJ	320 mJ
Repetition Rate (1)	0 -100 Hz	0 - 50 Hz	0 - 30 Hz	0 - 20 Hz
OPO - Pulse Duration	0-3 ns shorter than pump pulse			
Linewidth (2)	10 - 500 cm ⁻¹			
Max. Pulse Energy Signal	37 mJ	52 mJ	74 mJ	98 mJ
Tuning Range (3)	410 - 2550 nm			
Beam Shape	> 90% round			
Beam Diameter	<5 mm	<6.5 mm	<7.5 mm	<9 mm

- (1) Same repetition rate as pump laser, performance at repetition rates above 20 Hz on request
 - (2) Linewidth depends on pump pulse duration and characteristics, and OPO wavelength
 - (3) Tuning range can be optimized at edges of range (down to 403 nm on request)
- Contact factory or local sales representative for pump laser requirements!

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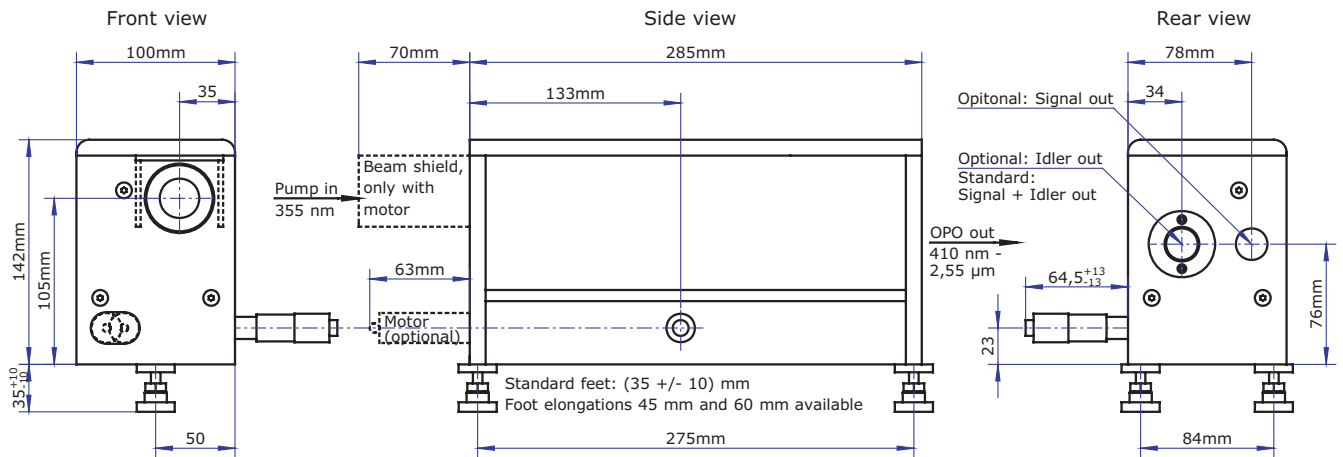
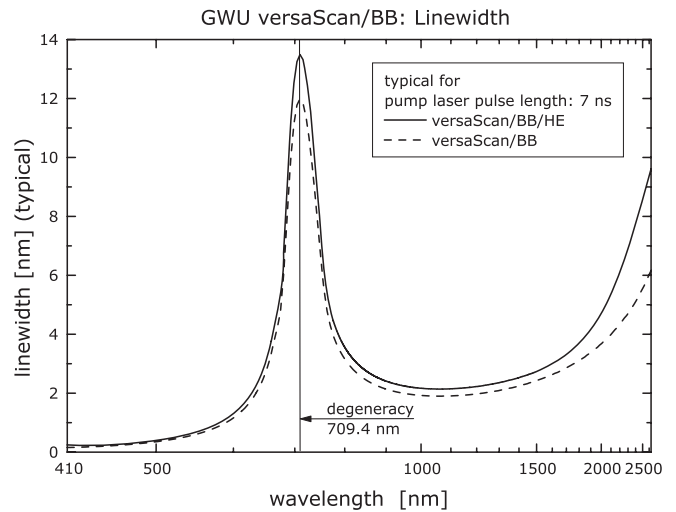
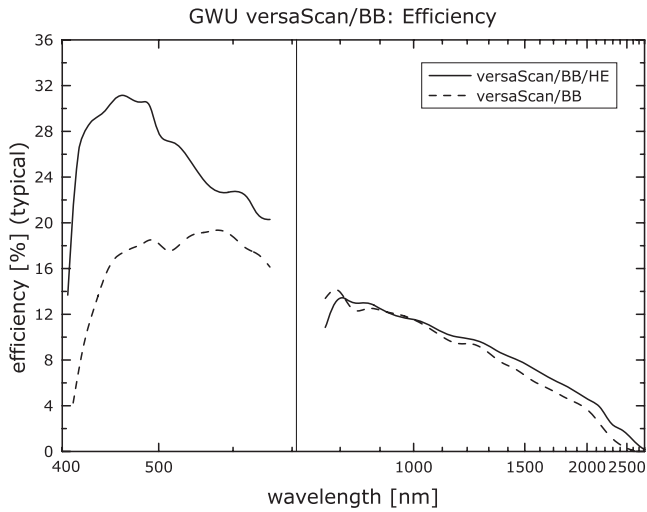
This powerful BBO-OPO Model /HE is designed to work with most commercial Nd:YAG pump lasers and targets at applications demanding high power broadband radiation across the visible and near IR region as can be found in medicine and industry. Options include computer control and a wavemeter offering absolute wavelength accuracy and automatic calibration under computer control (LabView library available)

Pumplaser Requirements	
Pump Wavelength	355 nm
Pump Energy	50 - 320 mJ/pulse @ 355 nm
Pulse Width	3.5 - 10 ns @ 355 nm
Repetition Rate	1 - 100 Hz
Spatial Beam Profile	homogeneous
Divergence	< 0.5 mrad, > 0.5 mrad on request

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.

Mechanical + Utilities		
Size (L x W x H)	OPO (Body Only)	285 mm x 100 mm x 142 mm
	Electronics Box (Option)	280 mm x 285 mm x 176 mm
Weight	OPO Head w/ Motor	5.1 kg
	Electronics Box (Option)	5.2 kg max.
Power Requirements	Electronics & Motorizers	100 - 240 V, 50/60 Hz, 1.7 A

Dimensions with feet, micrometer screw, and other protruding elements please refer to dimensional drawing



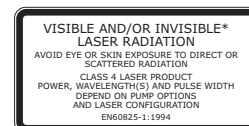
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