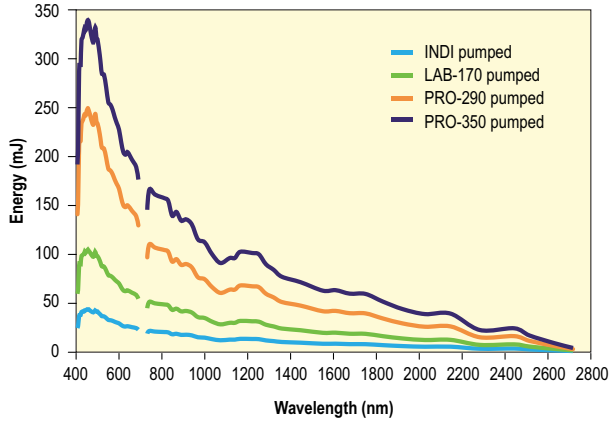


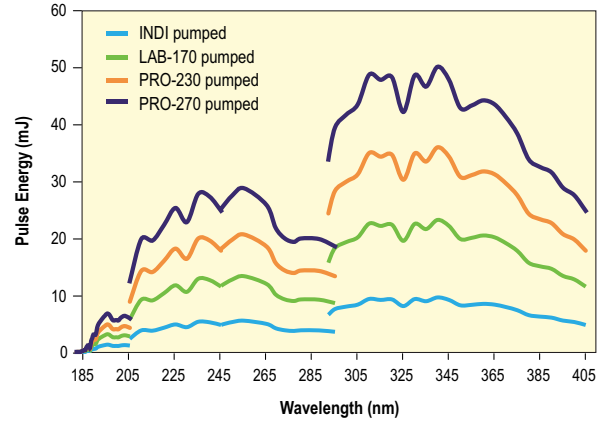
primoScan OPO

primoScan Performance

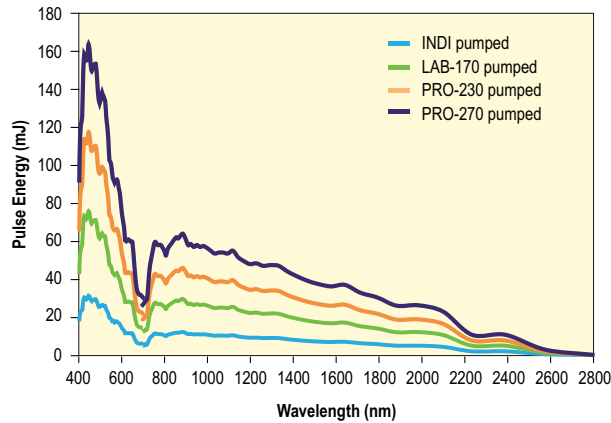
primoScan Broadband Typical Energy Performance^{1,2}



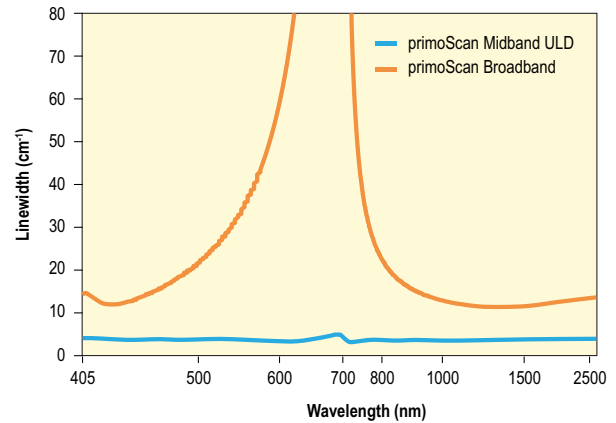
primoScan Midband ULD Typical UV Energy Performance^{1,2}



primoScan Midband ULD Typical Energy Performance^{1,2}

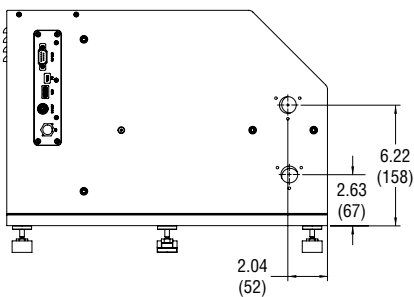


primoScan Linewidth Typical Curve^{1,2,3}

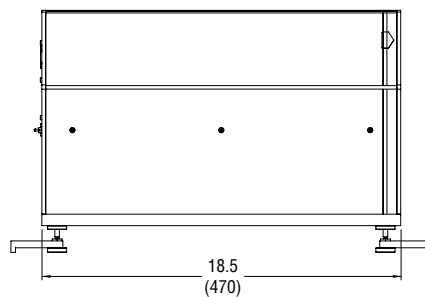


1. Typically measured performance; not a guaranteed or warranted specification.
2. Pumped at 10 Hz repetition rate.
3. Pump laser pulse length of 7 ns degenerating at 709.4 nm.

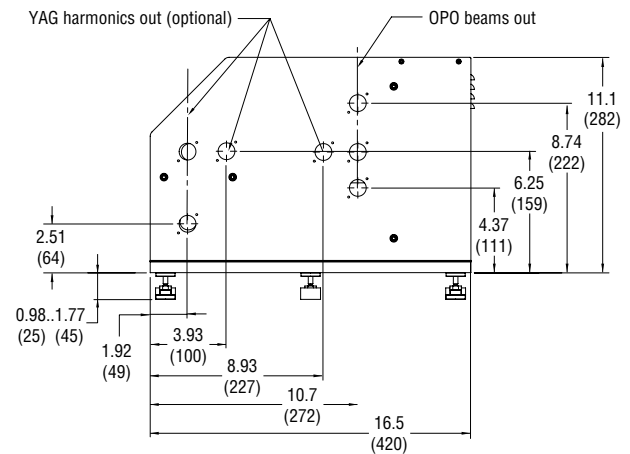
primoScan OPO Dimensions



front view



side view



rear view

Dimensions in inch (mm)

primoScan OPO

primoScan Broadband Specifications

	BB/120	BB/300	BB/550	BB/750
Maximum 355 nm Pump Energy	120 mJ	300 mJ	550 mJ	750 mJ
Maximum Output Energy	45.5 mJ	114 mJ	210 mJ	285 mJ
Repetition Rate	0–20 Hz	0–100 Hz	0–50 Hz	0–30 Hz
Beam Diameter at Exit Aperture	<6 mm	<9 mm	<11 mm	<14 mm
Tuning Range, Signal Wave	405–690 nm			
Tuning Range, Idler Wave	730–2700 nm			
Linewidth	10–500 cm ⁻¹			
OPO Pulse Width	0–3 ns < pump			
Beam Divergence (FWHM) ¹	<10 mrad			
Beam Roundness (Near Field)	>85%			
Polarization	horizontal >99%			
Beam Pointing, fixed wavelength ²	<500 µrad, <10% of beam diameter			
Beam Pointing, when changing wavelength ²	<1000 µrad, horizontal			
Wavelength	<2000 µrad, vertical			
Wavelength Shift Time ³	<100 ms			
Size (L x W x H) ³	470 x 420 x 317 mm			
Weight ⁴	24–26 kg			

1. At 440 nm

2. Signal wavelength, beam angular stability according to ISO 11670:2003

3. With 10 Hz every shot a different wavelength (synchronized with the pump laser)

4. Depending on configuration

primoScan OPO Midband ULD Specifications

	ULD/12	ULD/240	ULD/400	ULD/500
Maximum 355 nm Pump Energy	120 mJ	240 mJ	400 mJ	500 mJ
Maximum Output Energy	33 mJ	67 mJ	112 mJ	140 mJ
Maximum Output Energy UV (345 nm)	9.5 mJ	19 mJ	32 mJ	40 mJ
Maximum Output Energy UV (260 nm)	4.8 mJ	9.6 mJ	16 mJ	20 mJ
Repetition Rate	0–20 Hz	0–100 Hz	0–50 Hz	0–50 Hz
Beam Diameter at Exit Aperture	<6 mm	<8 mm	<10 mm	<11 mm
Tuning Range (Signal + Idler)	405–2750 nm			
Tuning Range UV ¹	190–405 nm			
Linewidth ²	3.5–6 cm ⁻¹			
OPO Pulse Width	0–3 ns < pump			
Beam Divergence (FWHM)	<2 mrad			
Beam Roundness (Near Field)	>85%			
Beam Pointing, fixed wavelength ³	<100 µrad			
Beam Pointing, when changing wavelength ³	<300 µrad			
Wavelength Shift Time ⁴	<100 ms			
Size (L x W x H) ³	470 x 420 x 317 mm			
Weight ⁵	24–29 kg			

1. Depending on UV Options

2. Except for deep UV < 300 nm: < 8 cm⁻¹

3. Signal wavelength, beam angular stability according to ISO 11670:2003

4. With 10 Hz every shot a different wavelength (synchronized with the pump laser)

5. Depending on configuration



Manufactured by GWU

GWU-Lasertechnik Vertriebsges. mbH

Bonner Ring 9
50374 Erftstadt
Germany

Fon +49 . (0)22 35 . 9 55 22-0
Fax +49 . (0)22 35 . 9 55 22-99

info@gwu-group.de
www.gwu-group.de

