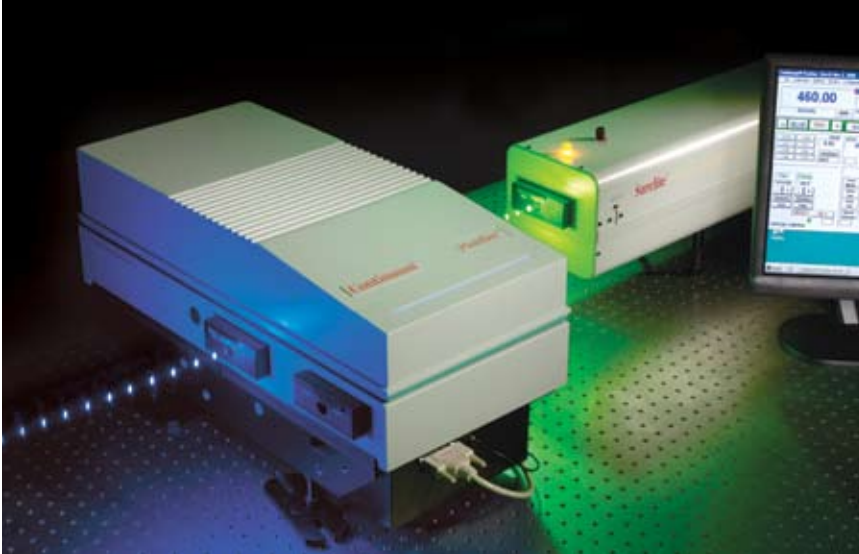


Panther® EX OPO & EX Plus OPO



Features and Benefits

Excellent beam quality and low divergence in both axes

Signal energies to > 100 mJ per pulse

Linewidths down to < 2.5 cm⁻¹

Tunability from 205 nm to 2550 nm

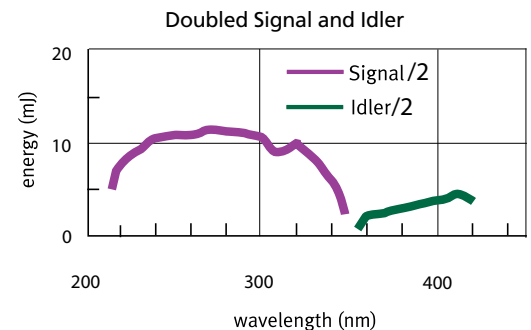
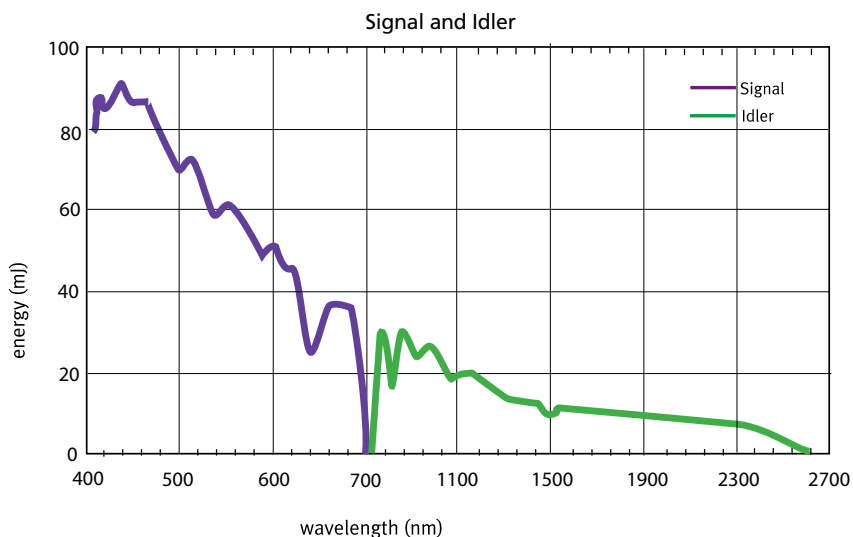
Pump with any Surelite™ or Powerlite™ pulsed Nd: YAG laser

*Integrated frequency doubler
Hermetically sealed and temperature stabilized crystal housings*

Panther EX OPO and Panther EX Plus OPO

Panther EX OPO and Panther EX Plus OPO are the next generation in Mid-Band OPOs. With all of the benefits of the original Panther, such as linewidth less than 6 cm⁻¹, energies up to 100 mJ, and full tuning range of 205 nm to 2550 nm, the new Panther EX and Panther EX Plus also feature excellent beam quality and low divergence (in both axes) to meet the most demanding applications. Also unique to the Panther EX and Panther EX Plus is the ability to be pumped by either a non-injection seeded, or an injection seeded laser for narrower output linewidth. With scan speeds up to 10 nm/sec, and a tuning range of over 2300 nm, the Panther EX and Panther EX Plus make excellent alternatives to dye lasers for a wide range of applications.

Panther EX Plus performance with seeded PL 9010 Pump



Panther EX and EX Plus Energy Specifications

Pump Model	Pump Laser		Energy at Peak in Signal				Energy at Peak in Doubled Signal			
	Energy at 355nm (mJ)	OPO Pump Energy (mJ)	unseeded (mJ)	linewidth (cm ⁻¹)	seeded (mJ)	linewidth (cm ⁻¹)	unseeded (mJ)	linewidth (cm ⁻¹)	seeded (mJ)	linewidth (cm ⁻¹)
Panther EX pumped with 200mJ or less										
SL I-10	100	100	12	<6	n/a	n/a	1.5	<5	n/a	n/a
SL I-20	100	100	12	<6	n/a	n/a	1.5	<5	n/a	n/a
SL II-10	160	160	24	<6	n/a	n/a	2.5	<5	n/a	n/a
PL 8030	150	130	20	<5	25	<2.5	2.5	<5	3.5	<4
Panther EX Plus pumped with 200mJ or more										
SL III-10	225	225	35	<6	n/a	n/a	3.5	<5	n/a	n/a
PL 8000	310	250	40	<5	50	<2.5	5	<5	7.5	<4
PL 9010	550	400	70	<5	85	<2.5	7	<5	10	<4
PL 9020	475	370	60	<5	75	<2.5	6	<5	9	<4
PL 9030	400	320	40	<5	48	<2.5	5	<5	7.5	<4

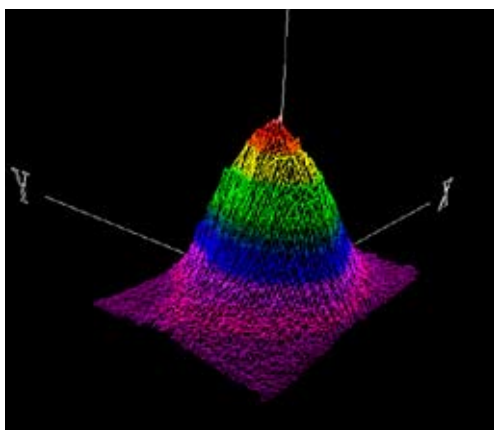
Panther EX and EX Plus Specifications

Description	SL I, II, III	PL 8000	PL 9000
Pulsewidth (nsec)	3-5	3-7	3-7
Pointing Stability (μrad)	<±150	<±100	<±100
Energy Stability (% , 99% of shots)	<±10 @ 10&20Hz	<±10 @ 10&20Hz	<±15 @ 30Hz
Divergence (mrad, FWHM)	<2 (both axes)	<2 (both axes)	<2 (both axes)
Beam Diameter (mm, near field)	4-7	4-7	4-7
Beam Ellipticity (% , near field)	<20	<20	<20
Polarization (%)			
Signal Vertical	>99	>99	>99
Idler Horizontal	>99	>99	>99

Notes:

All signal specifications at 450nm, and all doubled signal specifications at 240nm, unless otherwise noted.

As a part of our continuous improvement program, all specifications are subject to change without notice.



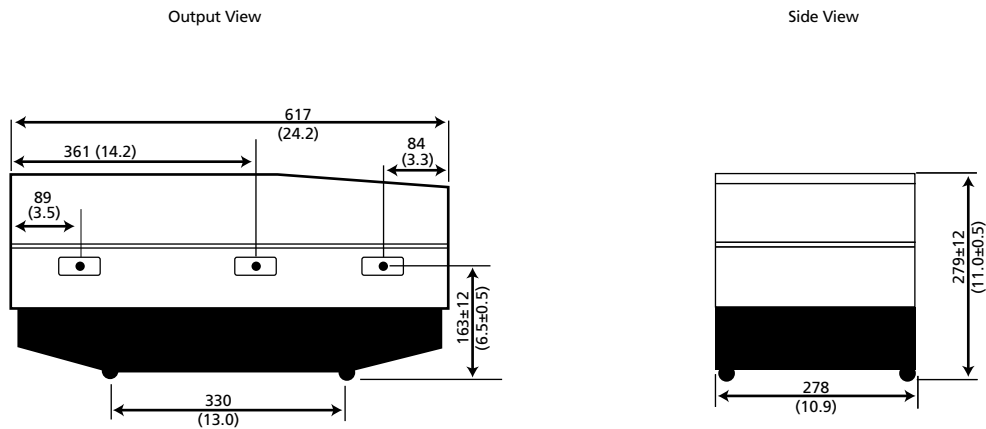
Panther EX Plus OPO output beam characteristics

Panther EX and EX Plus Package Dimensions

Size	Panther EX / EX Plus (LxWxH)	617 x 278 x 279 mm (24.2 x 10.9 x 11") H ±12 mm/0.5"
Weight	Panther EX / EX Plus	15.4 kg (34 lbs)

Panther EX / EX Plus Physical Layout

All dimensions are in mm (inches)



www.gmp.ch

GMP SA Main office: Avenue des Baumettes 17

CH -1020 Renens

Tél. 021 633 21 21

Fax. 021 633 21 29

info@gmp.ch

GMP SA Büro Zürich: Dübendorfstrasse 11a

CH-8117 Fällanden

Tel. 044 825 34 00

Fax. 044 825 34 01

info@gmp.ch

Continuum

3150 Central Expressway, Santa Clara, CA

Tel (408) 727-3240 Fax (408) 727-8237

USA Sales (866) 532-1064

www.continuumlasers.com

992-0036, Rev. J 10/11



Continuum[®]
The High Energy Laser Company™