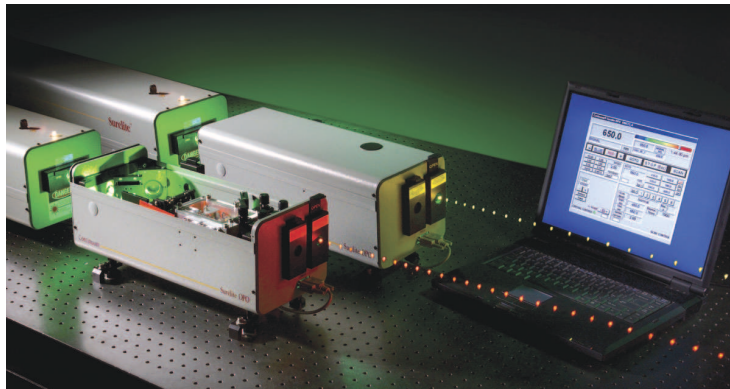


Surelite™ OPO Plus Reliability By Design

TUNABLE OPO



Surelite™ OPO Plus, the coherent light source, with wide tuning range and excellent beam characteristics.

SURELITE™ OPO PLUS FEATURES & BENEFITS

Hermetically sealed oscillator protects the nonlinear crystal from damage

An idler-resonant oscillator for better beam quality

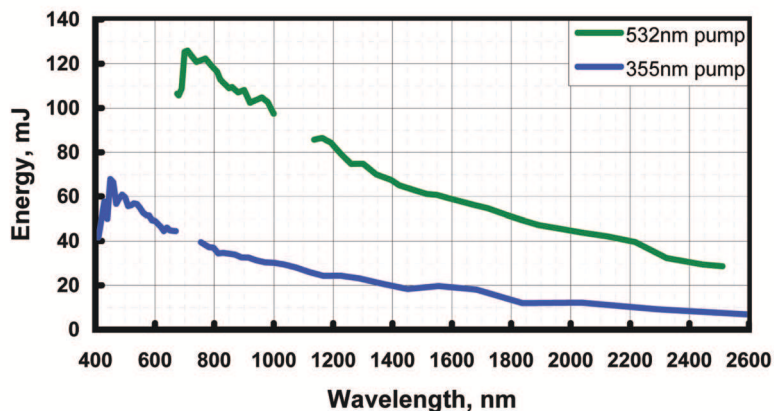
Requires no injection seeder

Simple layout allows for quick setup and easy access for adjustments and maintenance

SURELITE™ OPO PLUS

355 nm Pump Source	SL I-10	SL I-20	SLII-10	SLIII-10
Pump Energy (mJ)	100	100	160	200
Energy (at peak, mJ)	35	35	55	70
Repetition Rate (Hz)	10	20	10	10
Tuning Range (nm)	410 - 2500			
Signal & Idler Pulsewidth (nsec)	3 - 5			
532 nm Pump Source	SL I-10	SL I-20	SLII-10	SLIII-10
Pump Energy (mJ)	200	160	300	400
Energy (at peak, mJ)	65	50	95	120
Repetition Rate (Hz)	10	20	10	10
Tuning Range (nm)	680 - 2500			
Signal & Idler Pulsewidth (nsec)	3 - 5			

SURELITE™ OPO PLUS. TYPICAL DATA.
Pump: SLII-10; 300 mJ @ 532 nm, 160 mJ @ 355nm



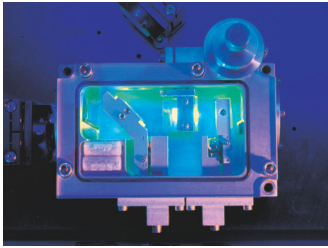
The Surelite™ OPO Plus is ideal for moderate resolution applications, and offers versatility and convenience in an economical package.

Efficiency through simplicity. The Surelite™ OPO Plus's simple, single stage design yields a high conversion efficiency. The Surelite™ OPO was designed for optimum performance when pumped by the Surelite™ I, II or III Nd:YAG laser systems. The Surelite™ laser and OPO system combination delivers optimized long-term and worry-free operation. The Surelite™ OPO Plus's design is not compromised by the requirement to be upgradable to a master oscillator and power amplifier system at a later date. Optimizing techniques, such as double-pass pumping, orienting optics to take maximum advantage of the polarization properties of the pump and resonated waves, and using Type I phase-matching BBO all help to produce efficient parametric gain.

NOTES

Specifications when pumped with the Surelite I, II, or III model as listed. Pump wavelength (either 532 nm or 355 nm) must be specified when ordered.

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



Surelite™ OPO PLUS Oscillator

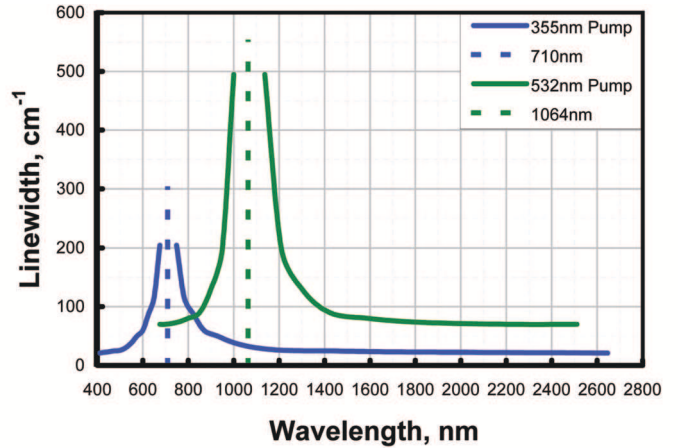
APPLICATIONS

- Biological Sample Excitation
- Solid-State Spectroscopy
- Diode Laser Simulation
- Two-color Particle Image Velocimetry

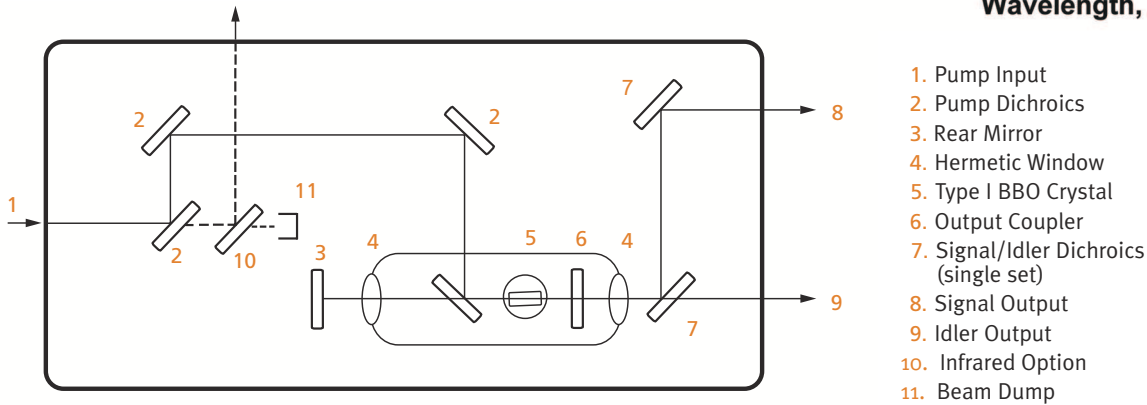
PC CONTROL OPTION

The PC Control option gives the Surelite™ OPO PLUS push button technology via a simple Windows® software package. The link between the laser and instrumentation equipment is critical to computer-based measurement and automation. The PC control option allows the user to automate scanning while controlling all scan parameters. Users can also select the motor driver option for basic scanning applications.

SURELITE™ OPO PLUS LINEWIDTH CURVE
Pump: SLII 10; 300 mJ @ 532 nm, 160 mJ @ 355nm



SURELITE™ OPO PLUS OPTICAL LAYOUT



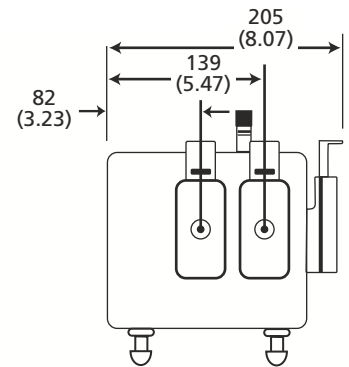
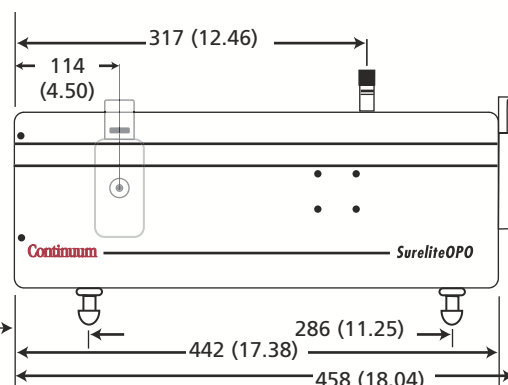
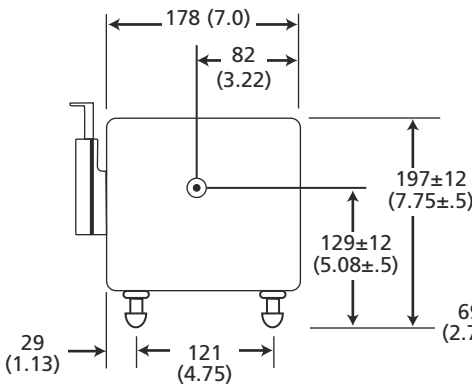
SURELITE™ OPO PLUS PHYSICAL LAYOUT

All dimensions in mm (inches).

Input view

Side View

Output View



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