

Q-OPO

Compact nanosecond Optical Parametric Oscillator



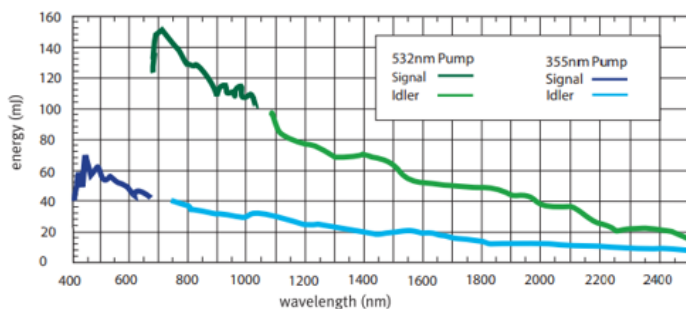
MAIN FEATURES

- Single resonant cavity for excellent beam quality
- Sealed oscillator to ensure crystal longevity
- Single or dual outputs operation
- IRO option for simultaneous access to residual frequencies
- OPO in 532 nm or 355 nm version
- Integrated safety interlocks

MAIN APPLICATIONS

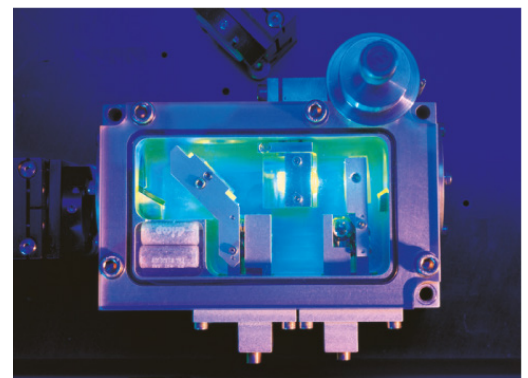
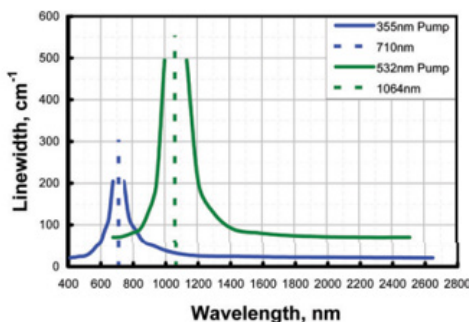
- PHOTOACOUSTIC IMAGING
- BIOLOGICAL SAMPLE EXCITATION
- SPECTROSCOPY
- MATERIAL ANALYSIS
- LASER INDUCED FLUORESCENCE

Typical tuning curve



Pump energies: 350 mJ @ 532 nm, 200 mJ @ 355 nm, 10 Hz

Typical linewidth



Q-OPO sealed oscillator

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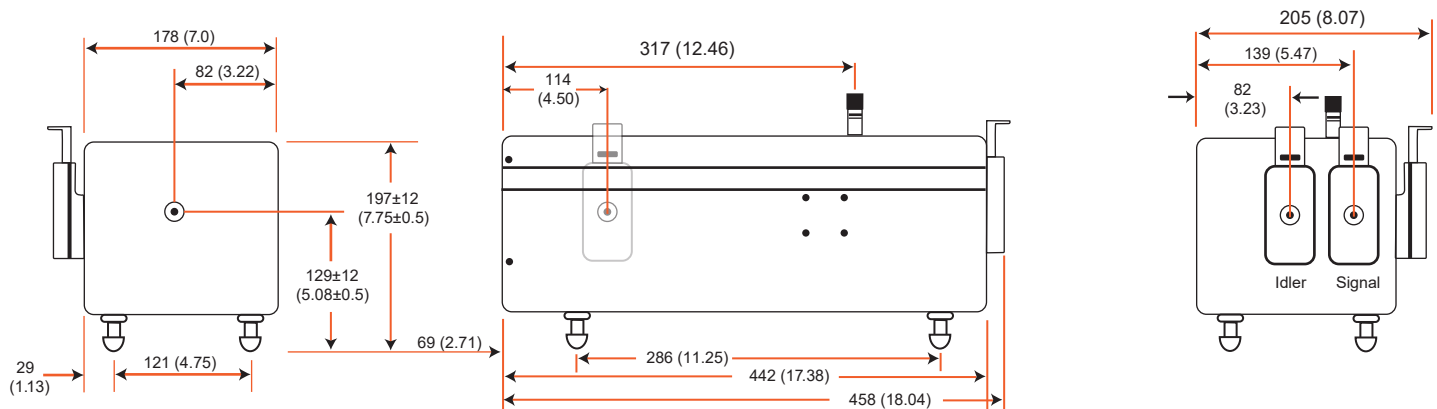
SPECIFICATIONS

	Q-OPO 532			Q-OPO 355		
Wavelength (nm)	680 - 2500			410 -2500		
Peak energy (mJ)	70	65	125	45	42	70
Repetition rate (Hz)	10	20	10	10	20	10
Pulse duration (ns)	3 - 5			3 - 5		
	Pump laser					
	Q-smart 450		Q-smart EX	Q-smart 450		Q-smart EX
Wavelength (nm)	532			355		
Energy per pulse (mJ)	220	200	350	130	120	200 (*)

(*) specific optimization

DIMENSIONS

Dimensions in mm (inches)



OPTIONS

PC control option



The PC Control option gives full control of all scanning features via a simple Windows® platform. Input your wavelength and scan range of choice, select the scan speed and the Q-OPO computer control will ensure optimal performance every time. This option also provides a link between both laser and lab instrumentation - an essential feature for system automation and/or data collection. The standard Q-OPO comes with a micrometer for manual control giving easy access to the broad OPO tuning range.

IRO option

The IRO option provides simultaneous access to residual frequencies, enabling secondary experiments.



DANGER
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