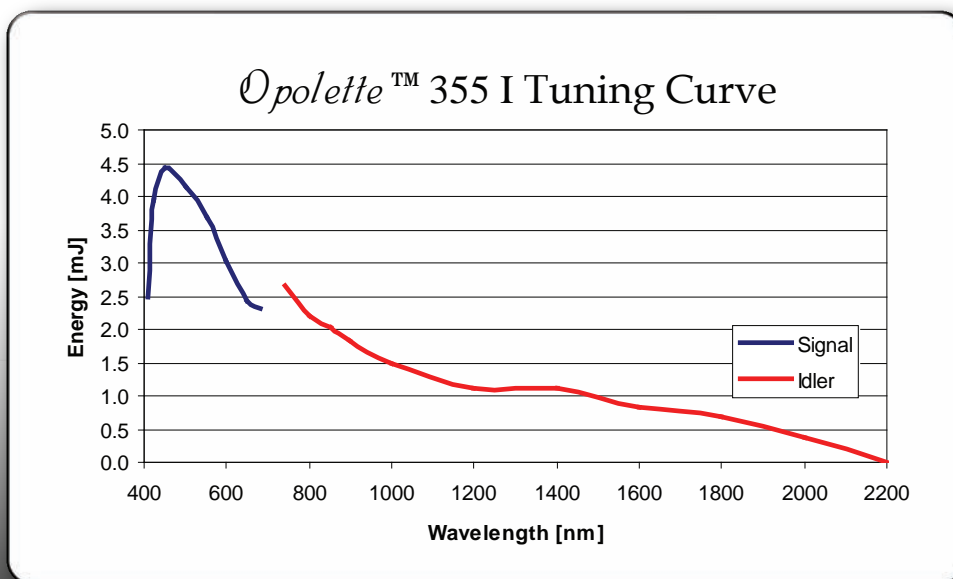




Opolette[™] 355 I

The *Opolette*[™] is an integrated, turn-key tunable laser system with the smallest footprint (7x12") in its category. All optical components (including the pump laser, the OPO, and optional UV module) are securely mounted on the same hermetically sealed frame. The user-friendly control software allows access to all system functions via a single USB cable.

The *Opolette*[™] 355 I incorporates a type I OPO pumped at 355 nm. The patented OPO* is a Double Resonance Oscillator (DRO) as well as a Double Pass Oscillator (DPO), resulting in high conversion efficiency, walk-off and beam steering cancellation, and excellent pointing stability.



Features

- Wide tuning range
- Little to no maintenance
- Small footprint: 7x12"
- Computer controlled tuning
- Software development kit



*All specifications are subject to change without notice

* US Patent #6,295,160



Pump Laser Specifications

Pump Laser Specifications	Nd:YAG	Flashlamp pumped
Pump Wavelength	355 nm	
Pulse Repetition Rate (PRR)	20 Hz	Lower rep rate can be selected
Pulse length	5 ns	Nominal
Beam Diameter	3 mm	Nominal
External Trigger	Flashlamp and Q-Switch	Flashlamp has to operate at designed PRR

OPO Parameters

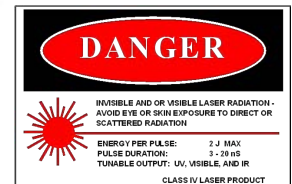
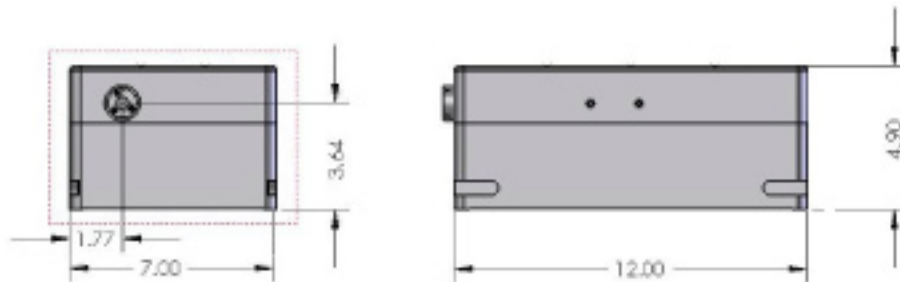
Wavelength Tuning Range	410 - 680 nm and 740 - 2200 nm	Wavelength "gap" at degeneracy
Peak OPO Energy	4.5 mJ	See tuning graph
Spectral Linewidth	~ 5 cm ⁻¹ @ 410 nm >100 cm ⁻¹ @ 680 nm	
Beam Divergence	From ~ 2 mrad @ 410 nm to ~ 10 mrad @ 650 nm	FWHM; Circular beam
Polarization	Horizontal	Signal & Idler
Computer Control	All the laser and OPO functions	ON, OFF, Power, Rep-Rate, Tuning, Scan

Options

Access to Fundamentals	1064 nm, 532 nm, and/or 355 nm output
Fiber Delivery	> 60% transmission; 2m fiber, mounted lenses, polishing kit
Variable Attenuator	Attenuate OPO output from 0 - 100%
Wavemeter	Real-time wavelength measurement, Fast Scan™, Feed-back tuning

Laser Head Dimensions

Weight: 20 lbs.



	Pump Laser Power Supply	Control Electronics Unit
Dimensions	14" (H) x 5.25" (W) x 17" (L)	3.75" (H) x 10.25" (W) x 11.5" (L)
Weight	32 lbs.	5 lbs.
Voltage	Single phase, 100 - 240 V	Single phase, 100 - 240V
Input Power	< 850 Watts	< 100 Watts
Cooling	Internal water to air heat exchanger	