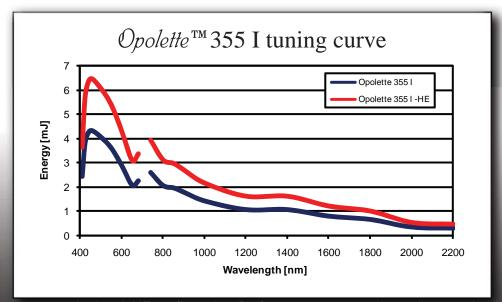


OpoletteTM 355 I

The Opolette[™] 355 series of products are **ultra-compact**, **portable**, turn-key tunable laser systems that utilizes OPOTEK's patented* optical parametric oscillator (OPO) technology to generate a **broad tuning range with high efficiency**. All system components (pump laser, OPO and optional accessories) are integrated into a **single unit** which results in a compact, **7x12**" footprint which is **ready out-of-the-box**. The system includes optics necessary to separate OPO wavelengths which all **exit the system at the same location**. The entire system is **hermetically sealed** to protect sensitive crystal components. All system functions are accessible from user-friendly software which can be operated from any computer with a USB port. A **software development kit** (SDK) is available for integrating system functions into end-user software. A **number of options** are available for added functionality such as motorized harmonics, variable power attenuation and real-time wavelength measurement (see reverse side).



Tuning curve represents standard and -HE configuration. Performance may vary depending on other installed options.

<u>Features</u>

- Wide tuning range
- Little to no maintenance

- Small footprint: 7x12"
- Computer controlled tuning
- Software development kit

Opolette™ 355 I

		OPOTEK ×	
	Pump Laser Specifications	OPOTEK	
Pump Laser Specifications	Nd:YAG	Flashlamp pumped	
Pump Wavelength	355 nm		
Pulse Repetition Rate	20 Hz	Lower rep rate can be selected	
Pulse Length	7 ns	Nominal	
Beam Diameter	3 (4)* mm	Nominal	
External Trigger	Flashlamp and Q-Switch		
	OPO Parameters		
Wavelength Tuning Range	410 - 680 nm and 740 - 2200 nm	Wavelength "gap" at degeneracy	
Peak OPO Energy	4.5 (6.5)* mJ	See tuning curve	
Spectral Linewidth	~5 cm ⁻¹ (410 nm) - >100 cm ⁻¹ (680 nm)		
Beam Divergence	~2 mrad (410 nm) - ~10 mrad (650 nm)	~2 mrad (410 nm) - ~10 mrad (650 nm) FWHM; Circular beam	
Polarization	Horizontal	Signal & Idler	

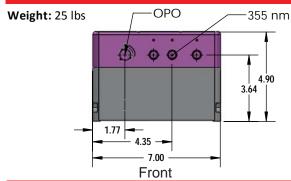
^{*} Data in () refers to system with -HE option, which incorporates a high energy pump laser.

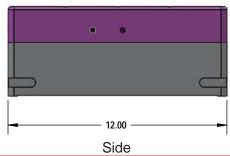
Options	Option Code	Description	
Access to Pump Laser Wavelengths	-1X/2X	Access to 1064 nm, 532 nm	
High Energy Pump Laser	-HE	Greater OPO energy using higher energy pump laser	
Motorized Harmonics	-MH	Control harmonics via computer software	
Fiber Delivery	-FD	Two meter fiber, coupling lens, polishing kit	
Motorized Variable Attenuator	-MVA	Attenuate OPO output from 0 - 100% via computer	
Wavemeter	-WM	Real-time wavelength measurement, Closed-loop tuning	
Harmonics Auto-Optimization**	-HAO	Automatic harmonic optimization	

All the laser and OPO functions

Computer Control

Laser Head Dimensions







ON, OFF, Power, Rep-Rate, Tuning, Scan

	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, 90 - 240 V	Single phase, 90 - 240V
Input Power	< 850 W	< 100 W
Cooling	Closed-cycle water cooled	

^{**} Requires Motorized Harmonics and Wavemeter options