NOVIN LASER SABA

SMWPL Laser

SMWPL is a high power lamp pumped multi wavelength laser with excellent beam quality. Pulsed operation of SMWPL is obtained through electro-optic Q switching method. In addition of the second, third and fourth harmonics of 1064 nm laser, SMWPL has 1570 nm laser through optical parametric oscillation. each of these wavelengths can be chosen using software and without any mechanical work.

SPECIFICATION

Repetition rate (Hz)	1-10	
Energy per pulse (mJ)	1064 nm	200
	532 nm	70
	355 nm	20
	266 nm	5
Pulse duration (ns)	1064 nm	10
	532 nm	
	355 nm	
	266 nm	
Beam diameter (mm)	1064 nm	~6.5
	532 nm	
	355 nm	
	266 nm	
Beam divergence (mrad)	1064 nm	<1
	532 nm	
	355 nm	
	266 nm	
Polarization	1064 nm	Vertical
Polarization ratio (%)	1064 nm	>95
Pulse to pulse energy stability (%)	1064 nm	± 2 (0.6)
	532 nm	± 4 (1.3)
	355 nm	± 6 (2)
	266 nm	± 6 (2)

Power drift (%)	1064 nm	± 3
	532 nm	± 5
	355 nm	± 5
	266 nm	On request
Pointing stability (µrad)	1064 nm	≤ 40
Linewidth at 1064 nm (cm-1)	Standard	≤ 0.7
	SLM	≤ 0.005

OTHER INFORMATION

Power requirements	Power supply	200-240 VAC, 50/60 Hz, 1600 VA
	Cooling group	200-240 VAC, 50/60 Hz, 2200 VA
Cooling method	Water cooled	
Operating temperature	+ 18 °C to + 28 °C	
Storage temperature	0 °C to + 45 °C	

Application

- LiDAR
- MATERIAL PROCESSING

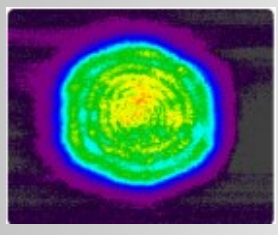
Observation & surveillance

- ABLATION
- LASER PEENING
- LASER ULTRASOUND
- PHOTOACOUSTIC IMAGING
- DYE, OPO & Ti:Sa PUMPING
- LIF
- SPECTROSCOPY

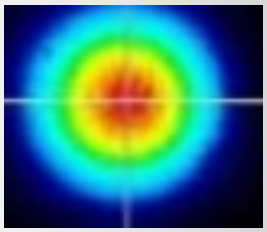
Main Features

- Lightweight and compact design Digital output: RS-232
- Quick-connect cables and cooling lines Robust, easy to integrate and reliable
- No installation required

Typical beam profiles



532 nm



1064 nm

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