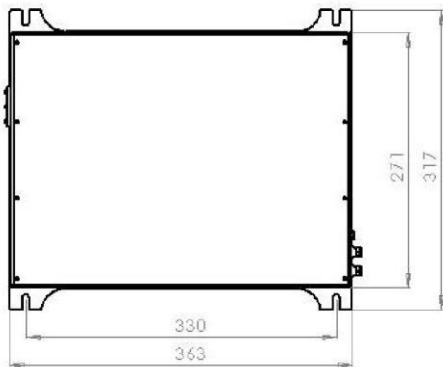
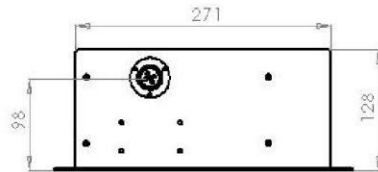
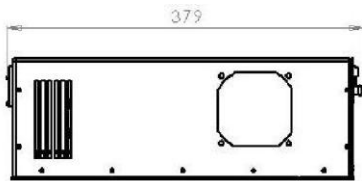


SUB-NAPLES

All Solid-State IR/Visible/UV turnkey Sub-nanosecond Lasers



The Sub-Naples series of Q-switched, DPSS lasers are high-peak-power, rugged, turnkey, sub-nanosecond units with output at any or all of the wavelengths: 1064 nm, 532 nm and 266 nm. The relatively short pulse length and high peak power make the SUB-Naples family particularly suitable for use in LIDAR, km-scale laser ranging (at 1064 nm), micromachining, mass spectrometry and other applications.

Features

- Compact, self-contained laser
- 1 ns and shorter output pulse width
- Near TEM₀₀ beam quality
- Repetition rate up to 200Hz (400 Hz option)
- External computer control of repetition rate and output energy via the built-in RS232 port

Applications

- LIDAR and Laser ranging
- Laser Induced Fluorescence (LIF)
- MALDI Mass Spectrometry
- Micromachining, marking, engraving
- Laser ablation, fragmentation
- Photoionization, LIBS
- Medicine

Specifications	Sub-Naples 1064/532/355/266			
<i>Wavelength</i>	1064 nm, 532 nm, 355, 266 nm			
<i>Repetition Rate</i>	Internal/External triggering, 200 Hz maximum (400 Hz maximum as an option) - variable from 1 Hz to the maximum via RS-232 port			
λ (nm)	1064	532	355	266
<i>Energy Output (at 100 Hz)</i>	1.4 mJ	0.9 mJ	370 μ J	270 μ J
<i>Pulse-to-pulse stability (at 100 Hz)</i>	1 %	1%	< 2 %	< 2 %
<i>Pulse counting</i>	available via RS-232 port (up to $4 \cdot 10^9$ pulses)			
<i>Pulse width (at 1064 nm)</i>	1 ns			
<i>Q-switch</i>	Passive			
<i>Divergence</i>	Diffraction limited			
<i>Beam profile</i>	Gaussian			
<i>Beam Diameter at the laser exit</i>	~ 1 mm			
<i>Output aperture height</i>	104 mm			
<i>Output Beam pointing stability</i>	0.3 Diffraction Limit			
<i>External control</i>	Connector/pin for TTL trigger input or +4 +/-1V, into 1 k Ω			
<i>Electrical power</i>	~ 100-240 VAC, 47-63 Hz, single phase			
<i>Power consumption</i>	< 45 W			
<i>Warm Up time</i>	< 3 minutes			
<i>Laser Head dimensions</i>	379 x 317 x 128 mm ³ 14.9 x 12.5 x 5 in ³			
<i>Weight</i>	7.5 kg			
<i>Operating temperature and humidity</i>	20-27° C; 10-80 %			
<i>Compliance</i>	CDRH, CE			

Content and Delivery

The delivered laser consists of the following

- Integrated Laser Head/Power Unit
- Power Cable
- Test Record.
- CD with Control Application (upon request)

Warranty

1 year for all parts and labor excluding the laser pump diode. The pump diode is warranted for the lesser of 1 year or 10^9 pulses.

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