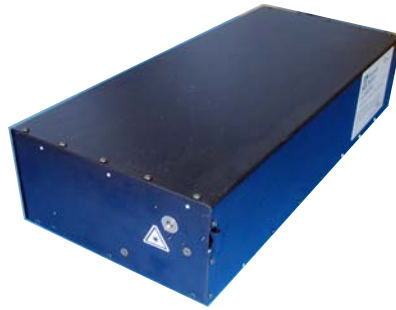


## Naples 266

Designed Specifically for MALDI Mass Spectrometry  
All Solid-State UV Laser



The Naples 266 is an affordable, rugged, turnkey, compact, all solid-state, pulsed, nanosecond UV laser. Designed specifically as an ionization source for MALDI-mass spectrometry, this stable reliable, efficient, passive Q-switched, diode-pumped, frequency-tripled Nd:YAG source can directly replace high-maintenance nitrogen lasers in a broad range of research and industrial applications.

The Naples 266 has the following main features: 250  $\mu\text{J}/\text{Pulse}$  @ 266 nm and 100 Hz max, TEM<sub>00</sub> output.

### Features

- Better than 4% pulse to pulse energy stability;
- Simple external computer control over the repetition;
- Rate and output energy via the built-in RS232 port;

### Applications

- MALDI Mass Spectrometry
- Laser fluorescence and imaging
- Raman spectrometry
- Flow measurements
- Engraving, marking, trimming, surface cleaning
- Short-range remote sensing, inspection
- Medicine

### Content and Delivery

The turnkey package includes the following:

- Integrated Laser Head, Driver, and Power Supply Unit;
- Power Cable;
- Test Record.





## Specifications

<b>Parameter</b>	<b>Naples 266</b>
Wavelength	266 nm
Energy Output (without fiber)	250 $\mu$ J/pulse at 100 Hz
Repetition Rate	Internal Trigger - variable from 1 Hz to maximum repetition rate of 100 Hz. External Trigger – single shot to the maximum repetition rate
Pulse-to-Pulse Stability*	4 %
Pulse Counter	Accessible via RS-232 port (up to $4 \cdot 10^9$ pulses)
Pulse Width	3.5 ns
Q-Switch	Passive
Divergence	Diffraction Limited
Beam Profile (without fiber)	Gaussian
Beam Diameter at the Laser Unit Output (After Collimator)	$\sim 500 \mu$ m
Output Aperture Height (without fiber)	48 mm
Output Beam Pointing Stability (std dev, 1 h, after Collimator)	0.2 Diffraction Limit
Line Width	$0.01 \text{ cm}^{-1}$ (Fourier limited)
External Control	TTL or $+4 \text{ V} \pm 1 \text{ V}$ , into $1 \text{ k}\Omega$
Control Interface	RS-232
Electrical Power	100-240 VAC, 47-63 Hz, Single Phase
Power Consumption	< 40 W
Warm Up Time	< 1 min
Laser Unit Dimensions	$435 \times 195 \times 97 \text{ mm}^3$ ( $17.1 \times 7.7 \times 3.8 \text{ in}^3$ )
Weight	6.6 kg
Operating Temperature and Humidity	16-28° C; 10-85 %
Compliance	CDRH, CE

\* Custom option: 2% of pulse-to-pulse stability.

## 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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