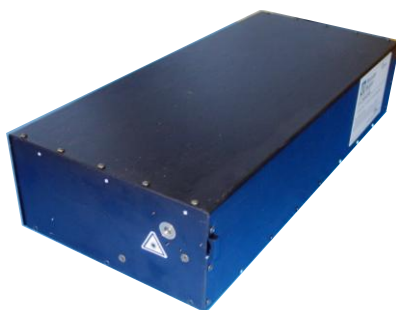


Naples 266

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: 200 $\mu\text{J}/\text{Pulse}$ @ 266 nm and 100 Hz max, TEM₀₀ 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

Parameter	Naples 266
Wavelength	266 nm
Energy Output (without fiber)	200 μ 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 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	$< 40 \text{ W}$
Warm Up Time	$< 1 \text{ min}$
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	$16\text{-}28^\circ \text{ C}$; 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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