



**PASSAT**

## **NAPLES Compact 355/532**

Turnkey Compact and High Power UV/VISIBLE Source



The Naples Compact is the Q-switched, diode-pumped Nd:YAG laser with output at 532 nm and 355 nm. The extremely compact design makes that laser suitable for use in many applications listed below. The laser can be installed on any moving vehicle or carried in hands.

### **Features**

- Compact, self-contained laser
- Several *ns* and shorter pulse width
- Close to the TEM<sub>00</sub> beam quality
- Energy attenuation
- Repetition rate up to 400 Hz (750 Hz optional)
- OEM and turnkey versions are available
- External computer control of repetition rate and output energy via the built-in USB port

### **Applications**

- MALDI Mass Spectrometry
- Sensing and ranging
- Micromachining, marking, Stereo-lithography
- Raman scattering including SERS, CARS
- Laser Induced breakdown spectroscopy and fluorescence
- Laser ablation, destruction, photo-ionization
- Basic research, medicine

### **Content and Delivery**

The delivered laser consists of the following:

- Turnkey Laser or its OEM version
- Power Cable
- Test Record.
- CD with Control Application (upon request)

<b>Specification</b>	<b>Naples Compact 532</b>	<b>Naples Compact 355</b>
<i>Wavelength</i>	532 nm	355 nm
<i>Pulse repetition rate</i>	Internal/External triggering, 400 Hz maximum (optional 750Hz maximum)	
<i>Energy Output</i>	300 $\mu$ J/pulse at 400 Hz (optional 210 $\mu$ J/pulse at 750 Hz)	200 $\mu$ J/pulse at 400 Hz (optional 140 $\mu$ J/pulse at 750 Hz)
<i>Pulse-to-pulse stability</i>	$\leq 1\%$	
<i>Pulse counting</i>	available via RS-232 port (up to $4 \cdot 10^9$ pulses)	
<i>Pulse width (at 1064 nm)</i>	8 ns	
<i>Q-switch</i>	Passive	
<i>Divergence</i>	Diffraction limited	
<i>Beam profile</i>	Gaussian	
<i>Energy Attenuation</i>	10-100% variable via software controlled serial port with a response time of less than 2 s for switching from minimum to maximum energy	
<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 $\Omega$	
<i>Electrical power</i>	~ 100-240 VAC, 47-63 Hz, single phase	
<i>Power consumption</i>	< 45 W	
<i>Warm Up time</i>	< 1 minutes	
<i>Laser dimensions</i>	422 x 203 x 89 mm <sup>3</sup>	
<i>Weight</i>	5 kg (all included )	
<i>Operating temperature and humidity</i>	20-27° C; 10-80 %	
<i>Compliance</i>	CDRH, CE	

That laser can be also delivered in OEM version (with separate laser driver and controller)



### 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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