



**M-NANO Green Laser Series**

Uniquely compact ~50-mJ-level, 6-ns Nd:YAG all-in-one laser with integrated electronics



**Description** Extremely small 50-mJ level, pulsed frequency-doubled Nd:YAG nanosecond laser head with integrated control electronics, providing a laser source with an all-in-one design. The compact laser head is designed for space-and weight constrained applications. Excellent compactness, high efficiency, low weight, good beam quality and high average powers are benefits over existing flash-lamp-pumped systems, and enable battery-powered setups.

**Applications**

- Laser analytics
- Non-linear optics
- Optical parametric amplification
- PIV – Particle Imaging Velocimetry
- LIBS – laser-induced break down spectroscopy
- Optical damage testing
- Defense
- LIDAR

**Models**

- 50 mJ @ 20 Hz, 1W M-NANO green model M-NANO-Nd:YAG-532-6-40-20\_PR157
- 50 mJ @ 100Hz, 5W M-NANO green model M-NANO-Nd:YAG-532-6-50-100\_PR158
- 2x 40mJ @ 15 Hz, M-NANO PIV (dual head) model M-NANO-PIV-532-8-40-15\_PR146

Inquire about customization, higher energies, harmonics, burst mode, higher powers.

Specifications	Model	PR157	PR158	PR146 (PIV)
Avg. output power (532nm)		~1 W (@ 20 Hz)	~5 W (@100Hz)	~1.5W (@15Hz)
Wavelength (center)		532 nm	532 nm	532 nm
Pulse Energy specification		>40 mJ	>40 mJ	>40 mJ (2x)
Pulse repetition rate*		0 ... 20 Hz	100 Hz	15 Hz
Pulse duration (FWHM)			6 ns (+/-3 ns)	
Beam quality M <sup>2</sup> (typical)		3	3	3
Supply voltage			24-28 VDC	
Weight		<2.5 kg	4 kg	4 kg
Size (l x w x h)**		210x152x65	262x140x64.5	265x178x65.5
* higher rep rates at reduced energy				
**not including connectors, shutter, screws.				

Inquire about customized specifications and dimensions for your integration needs.