



### M-NANO-GREEN All-In-One Laser Series

Particularly compact Nd:YAG all-in-one laser with SHG and integrated electronics



**Description** Extremely compact ~30-mJ-level green (SHG) pulsed Nd:YAG laser head with integrated control electronics and laser diode current driver. Typically generates laser pulse energies up to 30 mJ at 10 Hz at 532 nm with ~25-30mJ residual pulse energy at the fundamental wavelength of 1064nm (model PR190) or >60 mJ at up to 25 Hz at 532 nm with ~50-60mJ residual pulse energy at 1064nm (model PR196), at pulse durations of typically ~< 6ns.

**Applications**

- Laser analytics
- Non-linear optics
- Optical parametric amplification
- PIV – Particle Imaging Velocimetry
- LIBS – laser-induced break down spectroscopy
- Pumping Optical Parametric Oscillators (OPOs)
- Defense
- LIDAR

**Models**

- 30 mJ @ 10 Hz, 0.3W M-NANO-GREEN model [PR190]
- 60 mJ @ 25 Hz, 1.5W M-NANO-GREEN model [PR196]
- Custom models – pls inquire about higher energies, harmonics, burst mode, higher repetition rates, etc.

Specifications	Model	M-NANO-GREEN [PR190]	M-NANO-GREEN [PR196]
Avg. output power (532nm)		~0.3 W (@ 10 Hz, 532 nm)	>1.5 W (@ 25 Hz, 532 nm)
Wavelength (center)		532 nm + 1064nm	532 nm + 1064 nm
Pulse Energy specification		>30 mJ (10 Hz)	> 60 mJ (25 Hz)
Pulse repetition rate*		10 Hz	25 Hz
Pulse duration (FWHM)		<6 ns	<6 ns
Beam quality M <sup>2</sup> (typical)		2 ~ 3	3
Supply voltage		24 VDC	24 VDC
Weight		<2.5 kg	<3 kg
Size (l x w x h)**		149 x 140 x 64 mm <sup>3</sup>	182 (L) x 140 x 64 mm <sup>3</sup>
* higher rep rates at reduced energy			
**not including connectors, shutter, screws;			
length L varies for different models			

**Dimensions**

