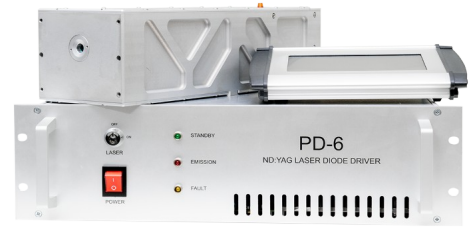


Water-cooled DPSS Nd:YAG Q-switched Laser Systems



General Information

We offer high repetition rate water-cooled diode-pumped Q-switched Nd:YAG systems with output energies up to 400mJ at fundamental wavelength and near-Gaussian beam profile.

Systems contain a compact laser resonator pumped in a unibody all-metal aluminum case. Parameters can be controlled from the PC through RS-485 / USB or Ethernet interfaces.

Detachable or embedded harmonics generators up to fifth: 1064, 532, 355, 266 and 213 nm and the motorized attenuator are available as options.

Nd:YLF (1047 or 1053nm) modifications are available on request.

Applications

- LIDAR
- Ti:Sa / OPO / Dye Lasers Pumping
- LIBS / Spectroscopy
- LIDT
- LIF
- Material Ablation

Specifications of most popular models⁽¹⁾

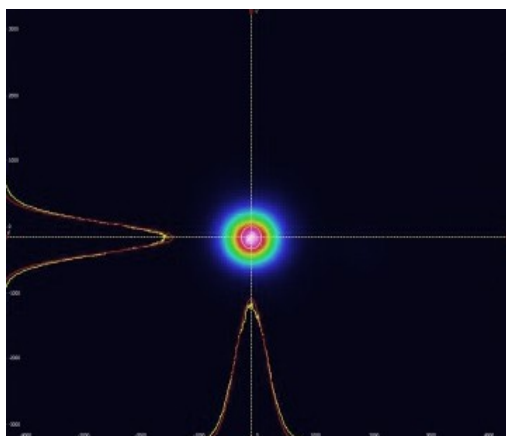
		ND-150W	ND-300W
Repetition rate, Hz			100
Pulse duration (FWHM), ns	1064 nm		<15
Pulse energy, mJ ⁽²⁾	1064 nm	150	300
	532 nm	80	190
Energy stability, %	1064 nm		±2
Jitter, ns ⁽³⁾			±1
Polarization			Linear
Beam diameter (near field), mm		~5	~6
Beam profile		Bell-shaped, close to Gaussian	
Beam divergence (full angle for 86% of energy), mrad			≤3,0
Beam pointing stability (RMS), μrad			±20
Mains parameters		90...250 VAC, 50/60Hz	
Operation temperature, °C		15...30, non-condensing conditions	

⁽¹⁾ Specifications are subject to change without notice due to continuous improve of products

⁽²⁾ UV harmonics generators parameters are available on request

⁽³⁾ With respect to external TTL triggering signal

Typical far-field beam profile



Typical long-term power stability graph

