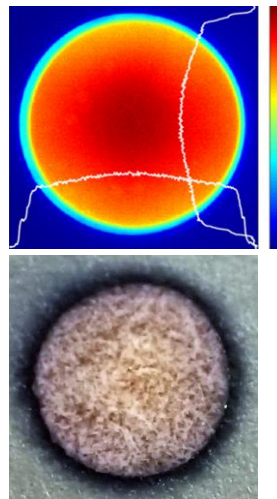


High Energy DPSS Nd:YAG Q-switched Laser Systems



NDV-100-100 model

General Information

We offer high energy, high repetition rate diode-pumped Q-switched Nd:YAG systems with output energies up to 500mJ at 1064nm wavelength and life time of more than 50 billion pulses.

These lasers systems use VCSEL arrays pumping technology ensuring high quality near perfect beam profiles. The models are designed are designed for 7x24 hours heavy duty industrial applications including LIBS metal sorting.

Typical far-field beam profile

Applications

LIBS / Spectroscopy
OPO / Dye Lasers Pumping
Lidar
LIDT
LIF
Material Ablation

Specifications of most popular models⁽¹⁾

		NDV-100-100	NDV-200-100	NDV-200-200
		Single Oscillator		Oscillator & Amplifier
Repetition rate, Hz		100		200
Pulse duration (FWHM), ns	1064 nm		<15	
Pulse energy, mJ ⁽²⁾	1064 nm	100	200	200
Energy stability, %	1064 nm		±2	
Jitter, ns ⁽³⁾			±1	
Polarization			Linear	
Beam diameter (near field), mm		~5	~6.5	6.5
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...30C, non-condensing conditions		

⁽¹⁾ Specifications are subject to change without notice due to continuous improvement

⁽²⁾ Other models with smaller or narrower heads are available upon request

⁽³⁾ With external TTL triggering signal