

Features

- Pulse energy ranges from 50mJ to 300mJ @1064nm
- Multiple harmonics optional
- Modular design and suitable for mass production
- Engineering design to ensure long term stability
- Customization available

Compact Nd:YAG Q-switched lasers

Dawa series lasers were developed in 2007. It was designed as a Industrial level laser that fit OEM system integration. The energy level is relatively low, from 50-300 mJ. The SHG, THG and FHG are available.

The scientific and industrial design ensures the good beam quality. Features as optical shutter, flow sensor, power supply interlock make sure the safety use as the top priority. Dawa series lasers passed CE certification in 2014.

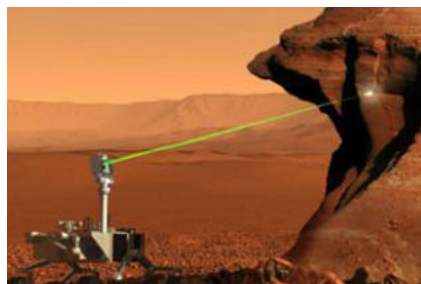
Dawa series lasers are suitable for many applications, including LIBS, LIDAR, LIF and PIV, etc. During the past few years, hundreds of Dawa series lasers have been delivered and earned great reputation.

Applications

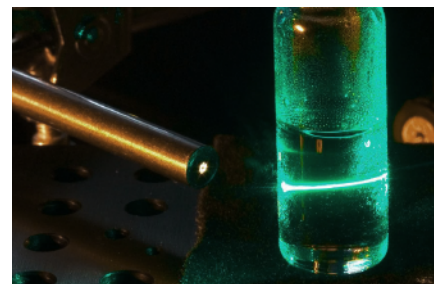
- Laser Induced Breakdown Spectroscopy(LIBS)
- LIDAR
- Laser Induced Florescence(LIF)
- Laser Cleaning
- Laser Cavitation
- LCD Repair
- Nonlinear Optics



LIDAR



LIBS



LIF

All images from customers and website



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Specifications

Models ¹		Dawa-50	Dawa-100	Dawa-200	Dawa-300
Repetition Rate		1-20Hz	1-20Hz	1-20Hz	1-10Hz
Pulse Energy:	1064nm	50mJ	100mJ	200mJ	300mJ
	532nm	25mJ	50mJ	100mJ	150mJ
	355nm	10mJ	20mJ	40mJ	60mJ
	266nm	5mJ	10mJ	20mJ	30mJ
Energy Stability ² (RMS)	1064nm	≤1%			
	532nm	≤2%			
	355nm	≤4%			
	266nm	≤4%			
Pulse Width ³	1064nm	≤9ns	≤9ns	≤8ns	≤7ns
	532nm	≤8ns	≤8ns	≤7ns	≤6ns
	355nm	≤7ns	≤7ns	≤6ns	≤5ns
	266nm	≤7ns	≤7ns	≤6ns	≤5ns
Divergence ⁴	1064nm	Multi-mode: ≤3mrad; Flat-top mode: ≤1mrad			
Pointing Stability	1064nm	≤50μrad			
Jitter ⁵ (RMS)		≤1ns			
Beam Diameter ⁶	1064nm	5mm	5mm	6mm	7mm
Spatial Mode Profile	Near Field	>70%			
	Far Field	>95%			
Cooling		Air to water			
Electrical Service		220V-50/60Hz-10A			
Power Consumption		500W			
Cable Length	Control Line	3m			
	Power Line	1.8m			
	Umbilical Line	3m			

1. All specifications, unless otherwise stated, are for Q-Switched 1064nm operation and are subject to change without notice.

2. Dev. to average (shot to shot for 99% of pulses).

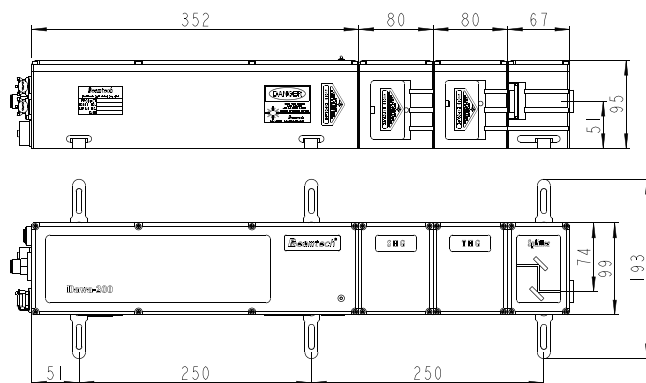
3. Full width half max (FWHM).

4. Full angle at 1/e² of the peak.

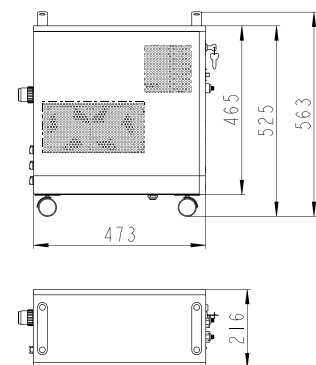
5. With respect to external trigger.

6. Measured at the laser output.

Dimensions



Dawa-200



Power Supply & Cooling System