

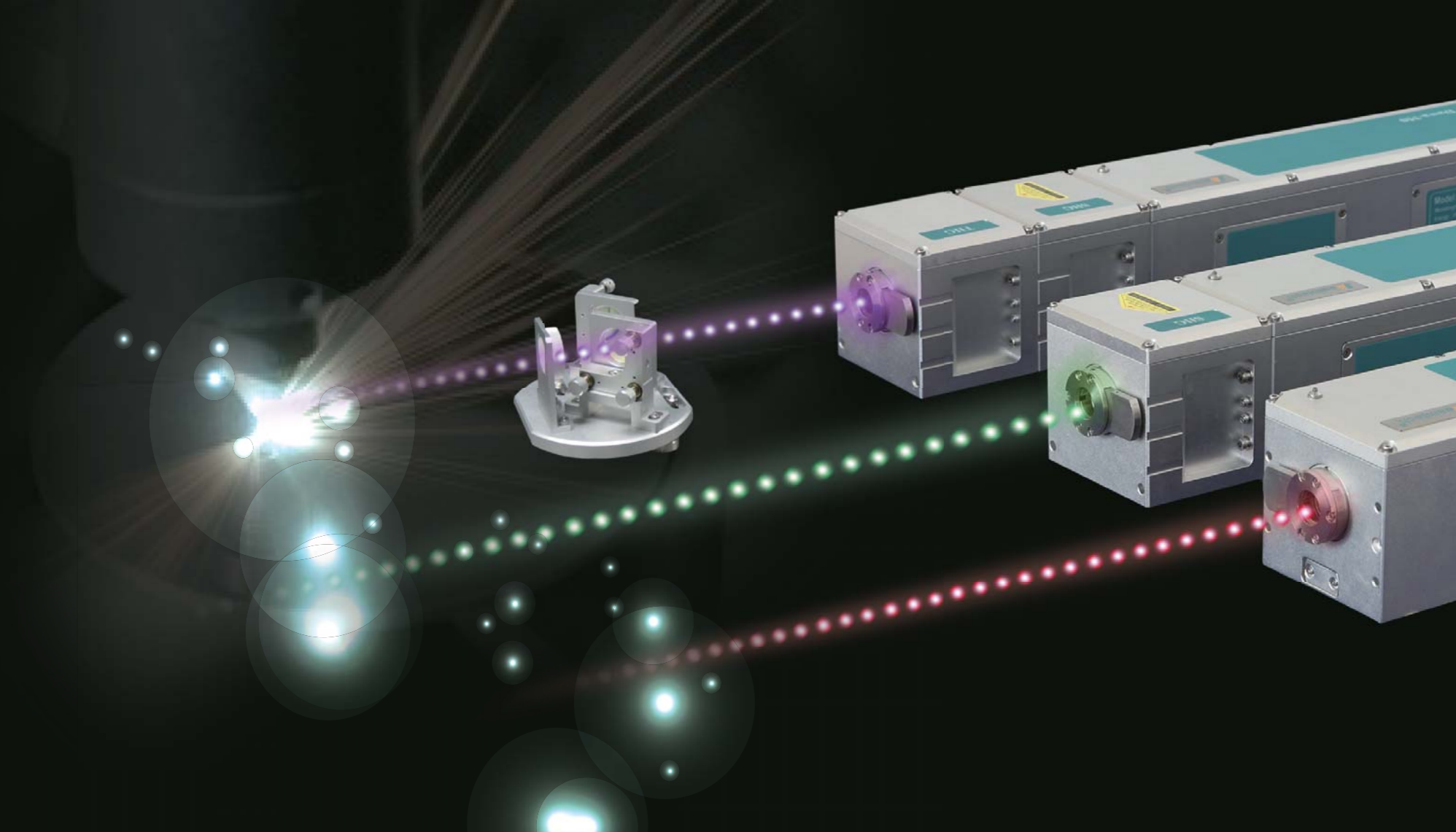
Laser Specifications*1:				
Product	Dawa-50	Dawa-100	Dawa-200	Dawa-300
Repetition Rate*2 (Hz)	1~20	1~20	1~20	1~10
Pulse Energy (mJ)				
1064 nm	50	100	200	300
532 nm	25	50	100	150
355 nm	10	20	40	60
266 nm	5	10	20	30
Energy Stability*3				
1064 nm	1%	1%	1%	1%
532 nm	2%	2%	2%	2%
355 nm	3%	3%	3%	3%
266 nm	3%	3%	3%	3%
Pulse Width*4 (ns)				
1064 nm	≤9	≤9	≤8	≤7
532 nm	≤8	≤8	≤7	≤6
355 nm	≤7	≤7	≤6	≤5
266 nm	≤7	≤7	≤6	≤5
Divergence*5 (mrad)	1	1	1	1
Pointing Stability (μrad)	<50	<50	<50	<50
Beam Diameter*6 (mm)	5	6	6	7
Jitter (RMS)*7 (ns)	≤1	≤1	≤1	≤1
Spatial Mode Profile*8				
Near Field	>70%	>70%	>70%	>70%
Far Field	>90%	>90%	>90%	>90%

Note:

- *1. All specifications, unless otherwise stated, are for Q-Switched 1064 nm operation and are subject to change without notice;
- *2. 30~50 Hz available on request;
- *3. Dev. to average (shot to shot for 99% of pulses);
- *4. Full width half max (FWHM);
- *5. Full angle measured at 1/e² of the peak;
- *6. Measured at the laser output;
- *7. With respect to external trigger;
- *8. Near field profiles measured at 1 m from laser output;
Far field profiles measured at the focal plane,
least squares fit to Gaussian profile.



Doing our best for your application
 Doing our best for your application



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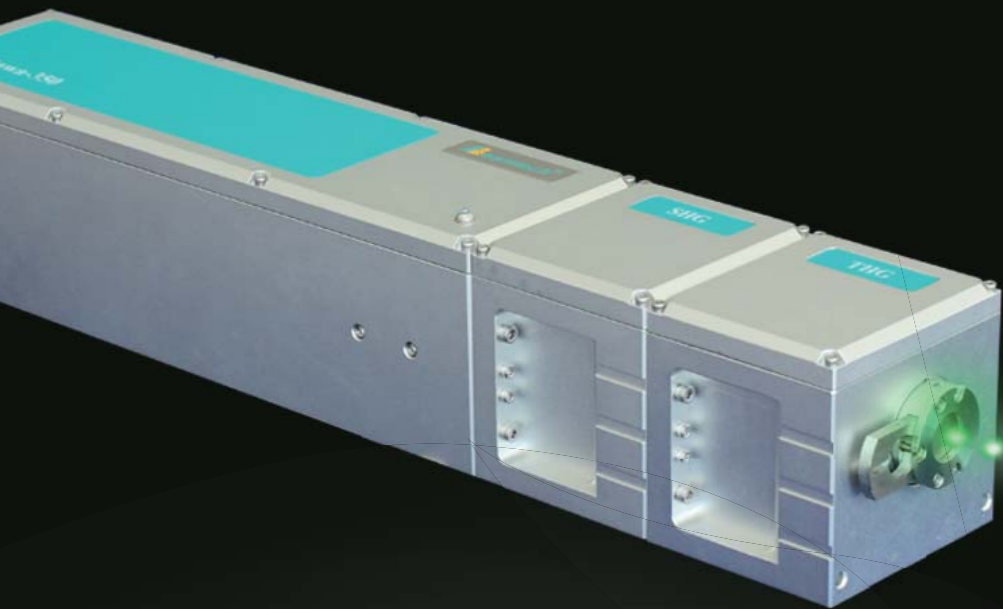
Manufacture & Technology Center:

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Dawa series
 —Compact Nd:YAG Q-switched Lasers





► Power Supply & Cooling



► Easy Lamp Change



► Remote Controller

► Pulsed Laser Deposition



► Portable LIBS



► LIDAR



Application:

- Ablation
- Laser Cleaning
- Laser Ultrasonic
- LCD Repairing
- Laser Induced Breakdown Spectroscopy (LIBS)
- LIDAR
- Laser Induce Florescence (LIF)
- Illumination

- Nonlinear Optics
- PIV Laser Source
- Pumping Ti: Sapphire Laser
- Remote Sensing
- Solar Cell Manufacturing

Dawa Features and Benefits:

- Compact and easy to assemble
- Hardened design for high reliability
- Temperature stabilized for power stability
- Flat-top beam distribution
- Quick flash lamp replacement without resonator realignment
- 10 mJ to 350 mJ at 1064 nm
- Humanization design and easy to use
- Custom version available
- Considerate after-sales

A new member of Beamtech Nd:YAG laser family, the Dawa series Q-switched Nd:YAG laser provides 10-350mJ at 1064nm, optional harmonic-generation integrated in a compact, full function package, with convenient “quick flashlamp change” design, rugged air sealed industrialized package, bolt-on SHG, THG and FHG or fiber delivery.

Dawa is suitable for various applications, such as PIV, LIF, LIDAR, LIBS and micromachining, etc. Air sealed compact design and lamp

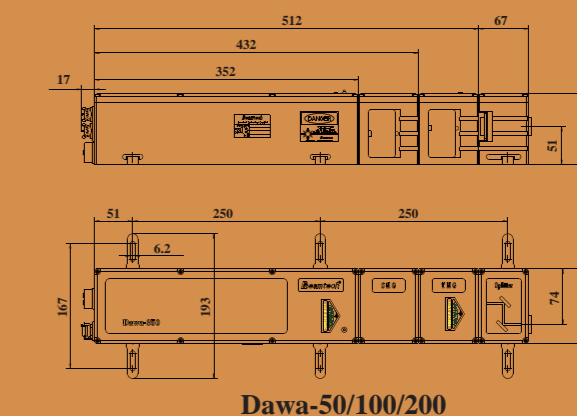
quick-change make it safer and more convenient to do maintenance while being used for long-time industrial operation. At your laboratory or outdoor scientific research field, Dawa can also help you take a short-cut to attach to your research working target.

Dawa series

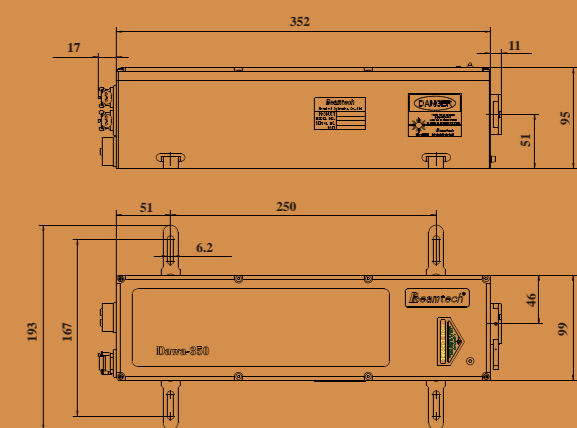
—Compact Nd:YAG Q-switched Lasers



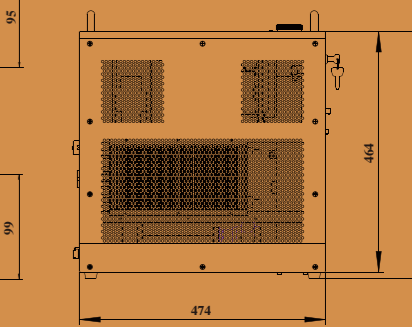
Mechanical and Utilities:		
Dimensions (L×W×H)	Single Wavelength Laser	352 mm × 99 mm × 95 mm
	Di-wavelength Laser	499 mm × 99 mm × 95 mm
	Tri-wavelength Laser	579 mm × 99 mm × 95 mm
	Power Supply and Cooling Unit	474 mm × 215 mm × 476 mm
	Remote Control	140 mm × 100 mm × 30 mm
Electrical Service	220 V-50/60 Hz-10 A	
Water Service	1.5 L, Distilled Water	
Operating Temperature	10-30 °C	
Storage Temperature	0-50 °C	
Cable Length	Control Line	3 m
	Power Line	1.8 m
	Umbilical Line	3 m



Dawa-50/100/200



Single Wavelength Laser Head



Power Supply and Cooling System