



## 1064 nm DPSS lasers

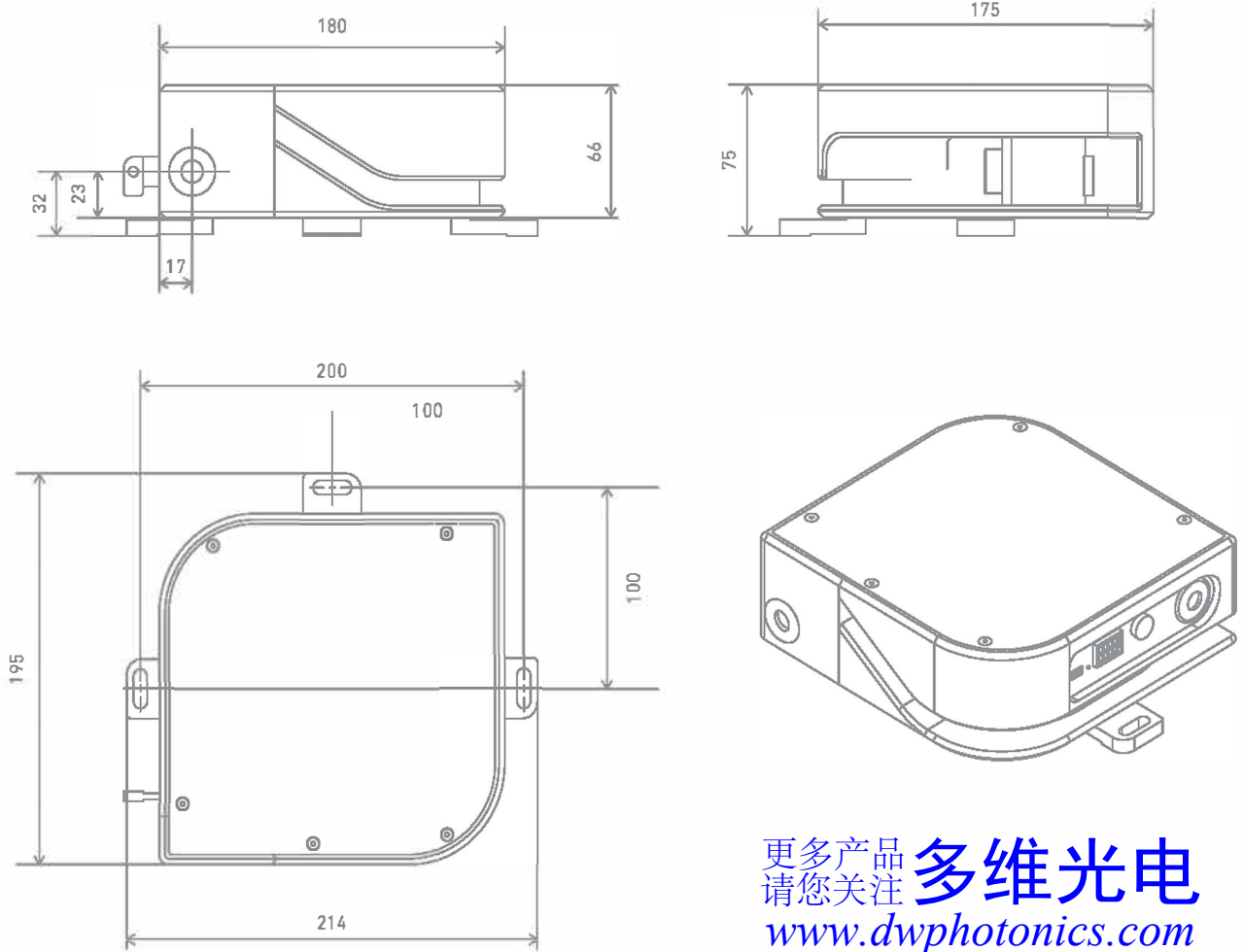


The typical cavity of these lasers is based on Nd:YAG crystal with about few millimeter long cavity allowing for very compact laser design with surprising performance, such as sub-nanosecond pulse widths and a peak power of several tens of kilowatts.

Additional harmonics modules for 532 nm or 266 nm wavelengths available on request. State-of-art laser design offer possibility to use laser head integrated in to the main laser module, or to mount it separately in to optical setup.

## 1064 nm Diode Pumped Passively q-Switched Lasers

FEATURES	APPLICATIONS
<ul style="list-style-type: none"><li>Single longitudinal mode</li><li>Universal and compact design</li><li>Internal and external TTL triggering</li><li>Laser controller with USB or RS232 interface</li><li>OEM version available</li></ul>	<ul style="list-style-type: none"><li>Material Processing &amp; Micromachining</li><li>LIBS</li><li>Marking</li><li>LIDAR &amp; Laser Ranging</li><li>Biophotonics</li></ul>



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MAIN PARAMETERS	OML1064-A	OML1064-B	OML1064-C	OML1064-D	OML1064-E
Wavelength	1064 nm (*532,266 nm optional)				
Pulse repetition rate	10 kHz	20 kHz	20 kHz	1 kHz	100 Hz
Pulse duration	800 ps		900 ps		1000 ps
Pulse energy	6-10 μJ	6-10 μJ	15-20 μJ	120 μJ	400 μJ
Average output power	100 mW @10kHz	200 mW @20kHz	300 mW @20kHz	150 mW @1kHz	40 mW @100kHz
Pulse to pulse energy stability	<1,5%				
Power stability, RMS	<3%				
Beam diameter	<1 mm				
Beam quality	$M^2 < 1.2$ , $TEM_{00}$				
Laser size	180 x 200 x 80 mm				
Laser head size	35 x 35 x 80 mm				
Applications	Material Processing & Micromachining LIDAR & Laser Ranging LIBS				