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
Single longitudinal mode	Material Processing &
Universal and compact design	Micromachining
Internal and external TTL triggering	LIBS
Laser controller with USB or	Marking
RS232 interface	LIDAR & Laser Ranging
OEM version available	Biophotonics

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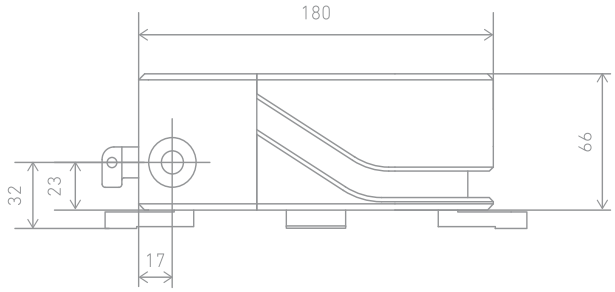
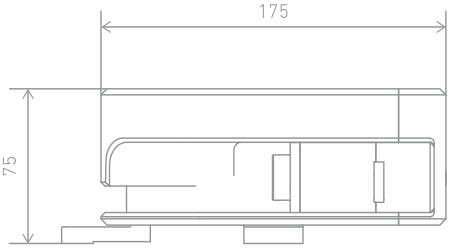
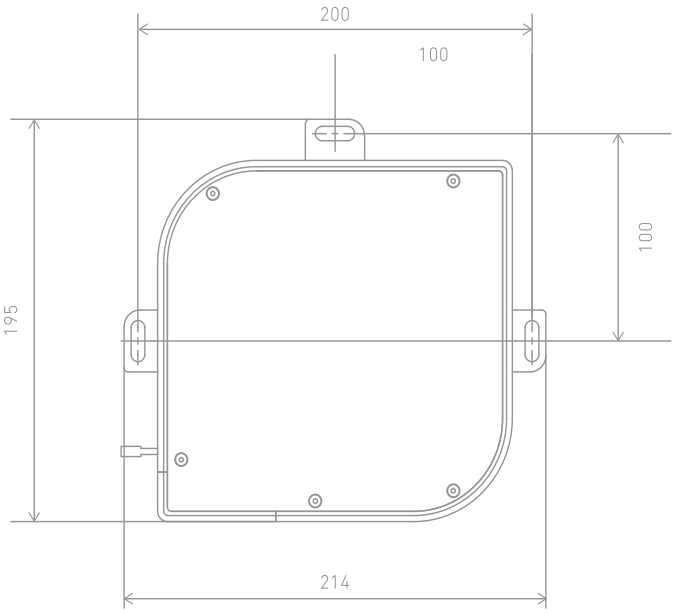
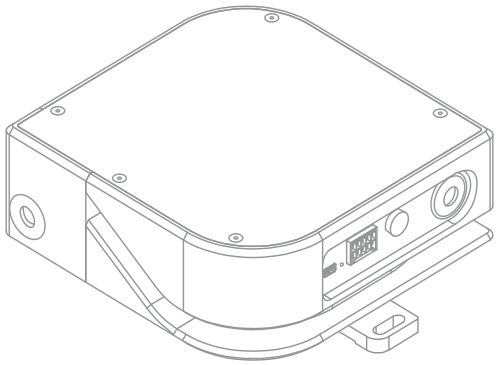
1064 nm DPSS lasers









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				