515nm Yb:YAG q-switched nanosecond laser
MJ Microchip laser system

DESCRIPTION

ULaser's 515nm laser can emit good yellow light. It's a diode pump laser module, and a nanosecond pulsed laser. Our 515nm laser is based on Yb:YAG crystal. With the q-switched crystal, it can achieve nanosecond output.

Our 515nm laser has pure pulse which leads to higher quality. And our 515nm laser has more stable pulsed laser energy. ULaser adopts the integrated design of diode pump and laser crystal. And ULaser adopts a compact laser head. These designs make our 515nm laser developing to a microchip laser which is superior in small size.

Our 515nm laser is widely used as spectrum laser, laser pump, light source of micromachining or yag laser surgery and other applications.

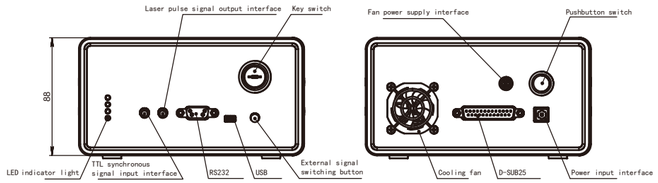
FEATURES

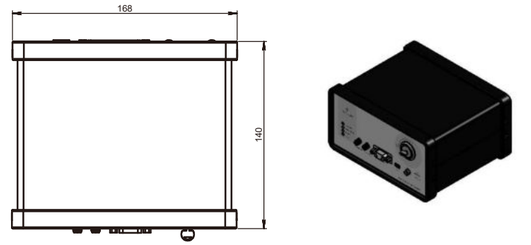
- Pulse width up to 800ps
- Pulse energy up to 100μJ
- Maximum repetition rate up to 2KHz
- Beam mode is TEM_{00}

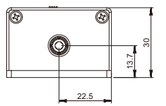
APPLICATIONS

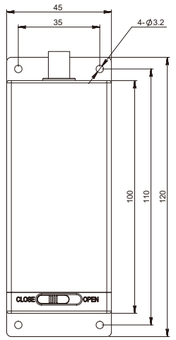
- Material micromachining
- Spectral detection
- Lidar
- Pump source
- Biomedical science

OUTLINE SIZE(mm)









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PARAMETERS

Model		UL515-1KHz-40μJ-MJ006	UL515-2KHz-30μJ-MJ007
Optical parameter	Wavelength(nm)	515	515
	Repetition frequency (KHz)	1	2
	Average power(mW)	40	60
	Output energy(uJ)	40	30
	Pulse width (ps)	900	900
	Power stability (8h)	±3%	±3%
	Beam mode	TEM_{00}	TEM_{00}
	Full-angle divergence angle Typ. (Mrad) level @1/e^2	4	5
	Vertical @1/e^2	4	5
	Polarization characteristics	＞100:1	＞100:1
System parameters	System power consumption （W)	≤15	≤25
	Power input	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz
	Control interface	RS232、USB	RS232、USB
	Power supply size (W×H×L, mm)	168×88×140	168×88×140
	Laser head size (W×H×L, mm)	45×30×120	45×30×120
	Working temperature (℃)	15-35	15-35
	Storage temperature (℃)	0-60	0-60

1.*The light outlet of the laser head is side outlet. See the mechanical dimension drawing for details

2.Customized internal beam expansion function to meet the requirements of small divergence angle (less than 2mrad)

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