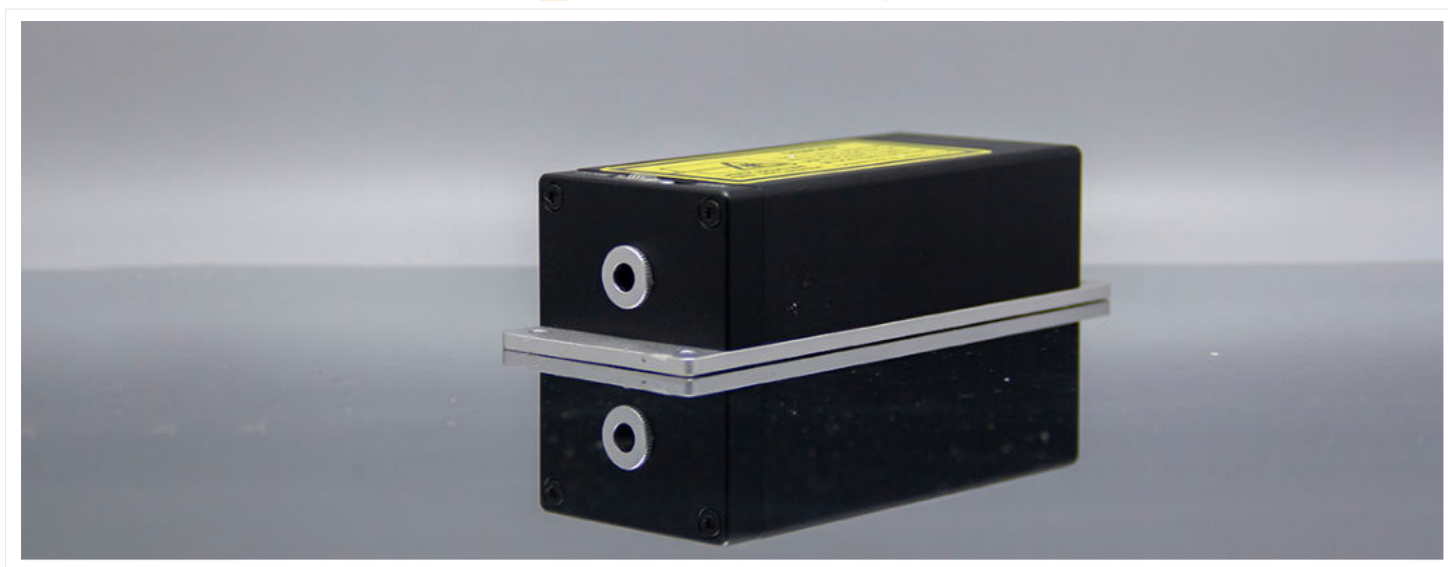
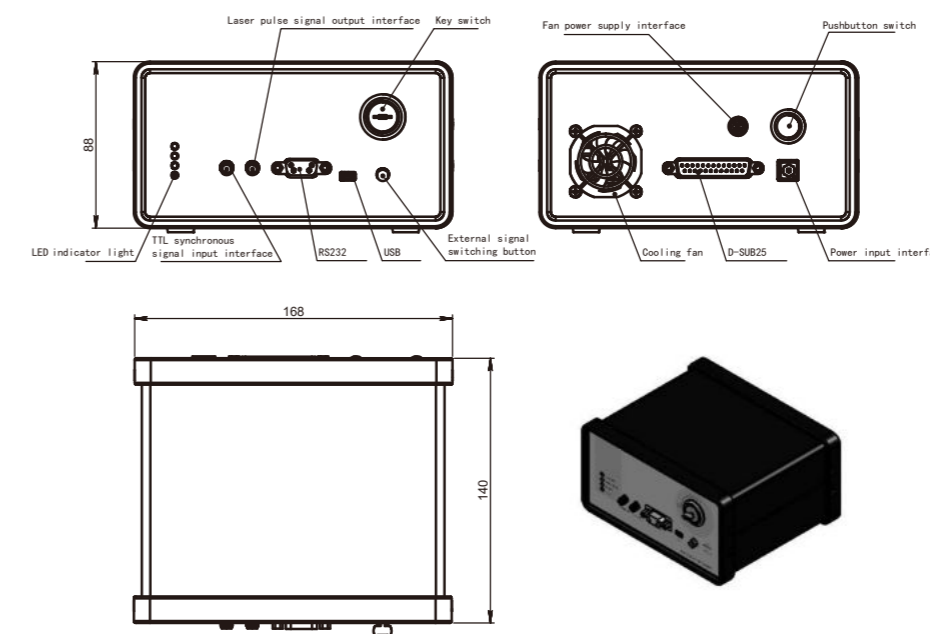


1535nm Er:glass Q-switched nanosecond laser MF Microchip laser system



OUTLINE SIZE(mm)



DESCRIPTION

1535nm laser is one of the series of solid state laser provided by ULaser. It is based on the bonding crystal of Er:Glass and Co:Spinel. It's a good erbium laser. Due to our mature bonding and packaging technology, our 1535nm laser also can be called as 1535nm microchip laser.

The most important advantage of our 1535nm laser is its safety to users' eyes. Because there is higher access of human eyes to 1535nm laser than other lasers (like 1064nm Nd:YAG laser). Besides, our 1535nm laser can provide large pulsed laser energy up to 400 uJ. And lighter weight and smaller size are its other brightened spots.

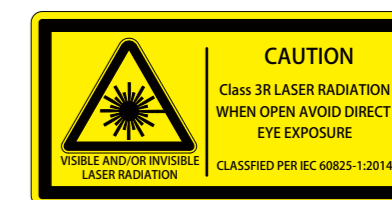
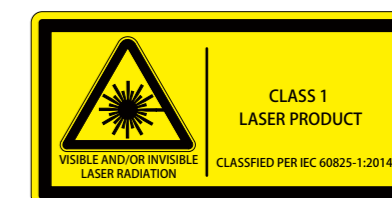
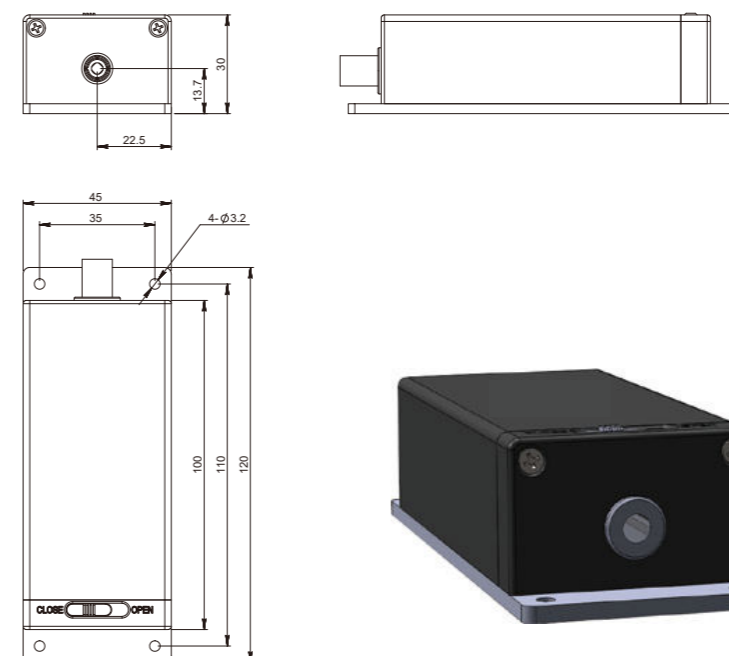
Our 1535nm laser has wide applications in infra red scope. It can be used as light source in lightweight lidar sensor, as well as in laser range finder.

FEATURES

- The laser pulse width can reach 5ns
- Maximum PRF to 1kHz
- Pulse energy up to 400μJ

APPLICATIONS

- laser ranging
- Lidar



PARAMETERS

Model	UL1535-0.01kHz-100μJ-MF001	UL1535-0.01kHz-200μJ-MF002	UL1535-0.01kHz-300μJ-MF003	UL1535-0.01kHz-500μJ-MF004	UL1535-0.005kHz-1000μJ-MF005	UL1535-1kHz-40μJ-MF006	UL1535-2.5kHz-20μJ-MF007	UL1535-5kHz-10μJ-MF008	UL1535-10kHz-5μJ-MF009
Wavelength (nm)	1535	1535	1535	1535	1535	1535	1535	1535	1535
Repetition Frequency (KHz)	0.01	0.01	0.01	0.01	0.005	1	2.5	5	10
Output Energy(μJ)	100	200	300	500	1000	40	20	10	5
Pulse Width (ns)	5	5	5	6	8	5	6	8	10
Power Stability (8h)	3%	3%	3%	3%	3%	3%	3%	3%	3%
Beam Mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀
Full-angle Divergence Angle Typ. (Mrad) Level @ 1/e ²	10	10	10	8	7	16	17	18	20
Vertical @ 1 / e ²	10	10	10	8	7	16	17	18	20
System Power Consumption (W)	≤3	≤3	≤3	≤7	≤7	≤7	≤7	≤7	≤7
Power Input	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz	100-240 VAC, 50/60Hz
Modulation Input	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface	TTL0-5V, SMA interface
Control Interface	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB
Power Supply Size (W × H × L, mm)	168×88×140	168×88×140	168×88×140	168×88×140	168×88×140	168×88×140	168×88×140	168×88×140	168×88×140
Laser Head Size (W × H × L, mm)	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120
Working Temperature (°C)	15-35	15-35	15-35	15-35	15-35	15-35	15-35	15-35	15-35
Storage Temperature (°C)	0-60	0-60	0-60	0-60	0-60	0-60	0-60	0-60	0-60

