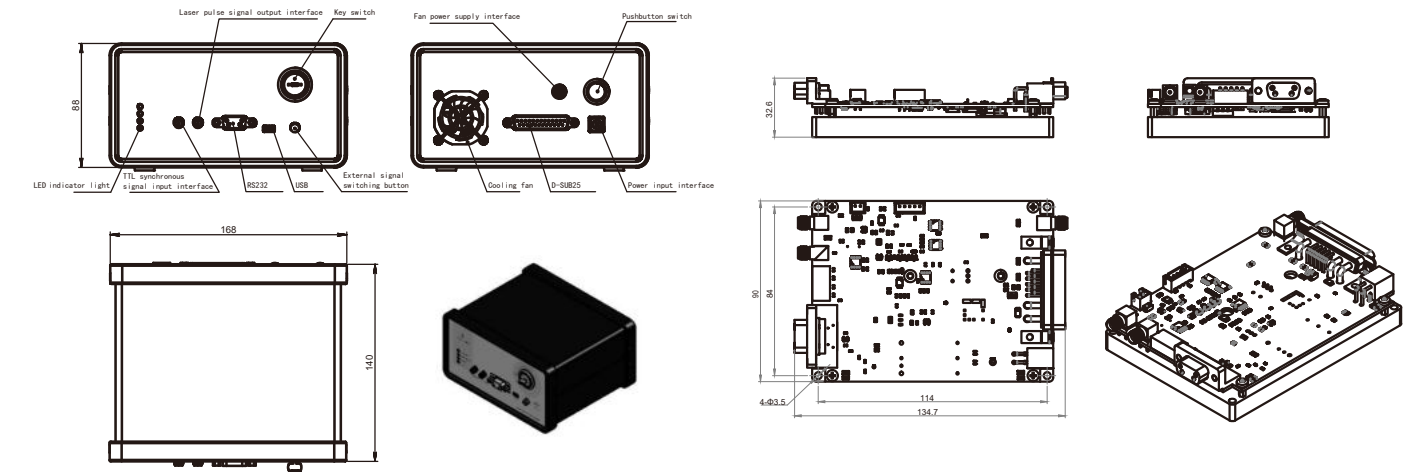


# 266nm Nd:YAG q-switched picosecond laser MA Microchip laser system



## OUTLINE SIZE(mm)

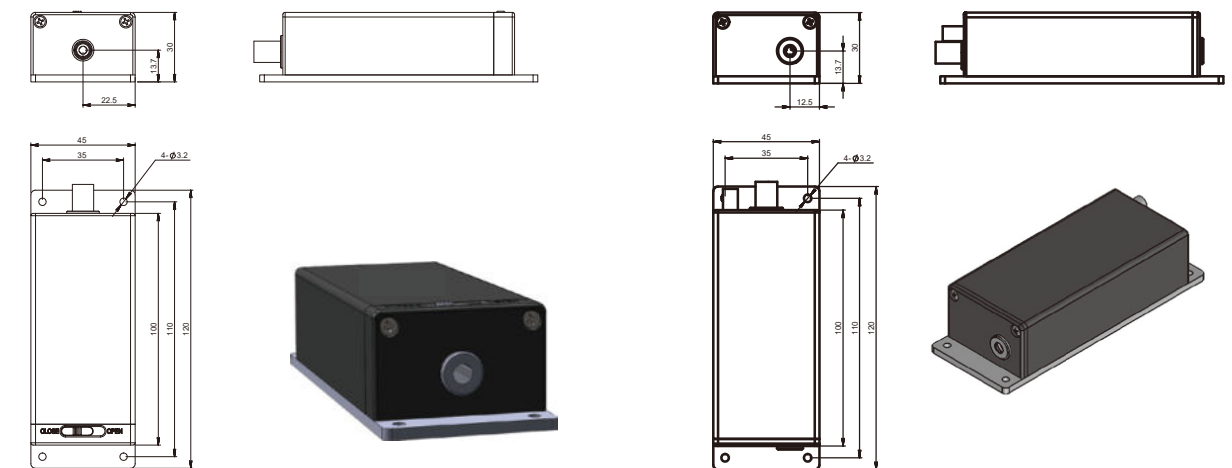


## DESCRIPTION

266nm laser is one of the series of solid state laser provided by ULaser. It is based on the Nd:YAG crystal. ULaser especially recommends our 266nm picosecond laser including of 2000ps, 550ps, 750ps and 350ps ones. If you need others, you can consult our sale staffs.

Our 266nm laser has pure and stable pulse. Thus, it has very high quality in pulse beam. Besides, it is a compact laser which is easy in install and integrate. Though our 266nm is a microchip laser which has small size and light weight, it is still a high energy laser.

Our 266nm laser has wide applications in the various walks of life. It can be used in micromachining, time resolved Raman spectroscopy, laser ultrasound, laser induced breakdown spectroscopy and so on.

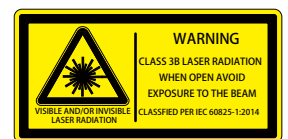


## FEATURES

- Pulse width up to 1ns
- Pulse energy up to 200μJ
- Beam mode is TEM<sub>00</sub>
- Repetition frequency up to 20kHz
- Fully sealed design, high reliability

## APPLICATIONS

- Lidar
- Laser Ranging
- Atmospheric monitoring
- Optical metrology
- Laser ionization mass spectrometry
- Biomedical Science



PARAMETERS

Model		UL266- 1kHz- 10μJ- MA001	UL266- 5kHz- 8μJ- MA002	UL266- 10kHz- 3μJ- MA003	UL266- 20kHz- 2μJ- MA004
Optical parameter	Wavelength (nm)	266	266	266	266
	Repetition frequency (kHz)	1*	5*	10*	20*
	Average power (mW)	10	40	30	40
	Output energy (μJ)	10	8	3	2
	Pulse width (ps)	1500	1200	1200	1200
	Power stability (8h)	±3%	±3%	±3%	±3%
	Beam mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
	Full-angle divergence angle Typ. (Mrad) level @1/e <sup>2</sup>	5	5	5	5
	Vertical @1/e <sup>2</sup>	5	5	5	5
	Polarization characteristics	> 100:1	> 100:1	> 100:1	> 100:1
System parameters	System power consumption (W)	≤35	≤35	≤35	≤35
	Power input	100- 240 VAC, 50/60Hz	100- 240 VAC, 50/60Hz	100- 240 VAC, 50/60Hz	100- 240 VAC, 50/60Hz
	Control interface	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
	Laser head size (W×H×L, mm)	45×30×120	45×30×120	45×30×120	45×30×120
	Working temperature (°C)	15- 35	15- 35	15- 35	15- 35
	Storage temperature (°C)	0- 60	0- 60	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)



# 266nm Nd:YAG q-switched picosecond laser

## MC Microchip laser system



### DESCRIPTION

266nm laser is one of the series of solid state laser provided by ULaser. It is based on the Nd:YAG crystal. ULaser especially recommends our 266nm picosecond laser including of 2000ps, 550ps, 750ps and 350ps ones. If you need others, you can consult our sale staffs.

Our 266nm laser has pure and stable pulse. Thus, it has very high quality in pulse beam. Besides, it is a compact laser which is easy in install and integrate. Though our 266nm is a microchip laser which has small size and light weight, it is still a high energy laser.

Our 266nm laser has wide applications in the various walks of life. It can be used in micromachining, time resolved Raman spectroscopy, laser ultrasound, laser induced breakdown spectroscopy and so on.

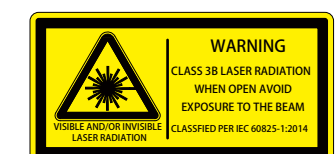
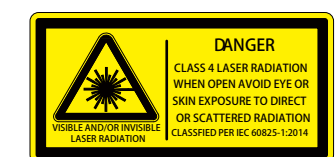
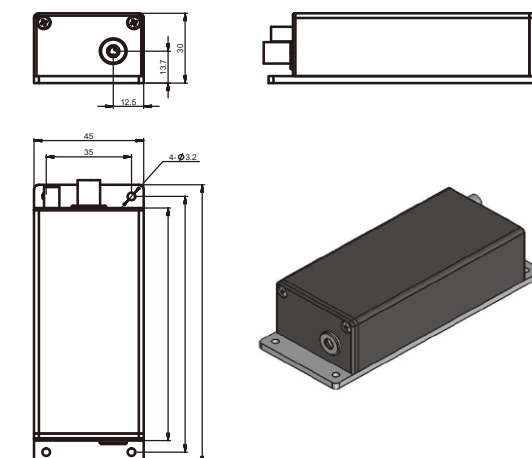
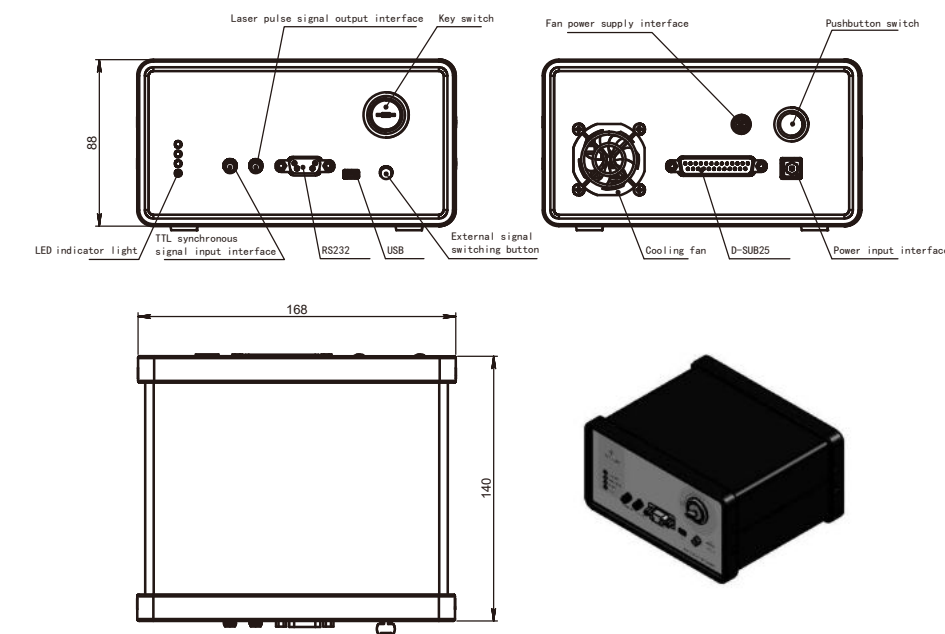
### FEATURES

- Pulse width up to 550ps
- Pulse energy up to 120μJ
- Beam mode is TEM<sub>00</sub>
- High polarization direction stability
- Maximum repetition rate up to 10kHz
- Fully sealed design, high reliability

### APPLICATIONS

- Seed source
- Laser ultrasonic testing
- Micromachining
- Pump source
- Laser induced fluorescence
- Laser ultrasonic image

### OUTLINE SIZE(mm)



PARAMETERS

Model		UL266- 1kHz- 10μJ- MC002	UL266- 5kHz- 8μJ- MC003	UL266- 10kHz- 4μJ- MC004
Optical parameter	Wavelength (nm)	266	266	266
	Repetition frequency (kHz)	1*	5*	10*
	Average power (mW)	10	40	40
	Output energy (μJ)	10	8	4
	Pulse width (ps)	650	650	650
	Power stability (8h)	±3%	±3%	±3%
	Beam mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
	Full-angle divergence angle Typ. (Mrad) level @1/e <sup>2</sup>	5	8	8
	Vertical @1/e <sup>2</sup>	5	8	8
	Polarization characteristics	> 100:1	> 100:1	> 100:1
System parameters	System power consumption (W)	≤25	≤30	≤30
	Power input	100- 240 VAC,50/60Hz	100- 240 VAC,50/60Hz	100- 240 VAC,50/60Hz
	Control interface	RS232, USB	RS232, USB	RS232, USB
	Power supply size (W×H×L, mm)	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
	Working temperature (°C)	15-35	15-35	15-35
	Storage temperature (°C)	0-60	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)





# 266nm Nd:YAG q-switched picosecond laser

## MD Microchip laser system



### DESCRIPTION

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Our 266nm laser has pure and stable pulse. Thus, it has very high quality in pulse beam. Besides, it is a compact laser which is easy in install and integrate. Though our 266nm is a microchip laser which has small size and light weight, it is still a high energy laser.

Our 266nm laser has wide applications in the various walks of life. It can be used in micromachining, time resolved Raman spectroscopy, laser ultrasound, laser induced breakdown spectroscopy and so on.

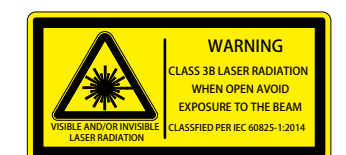
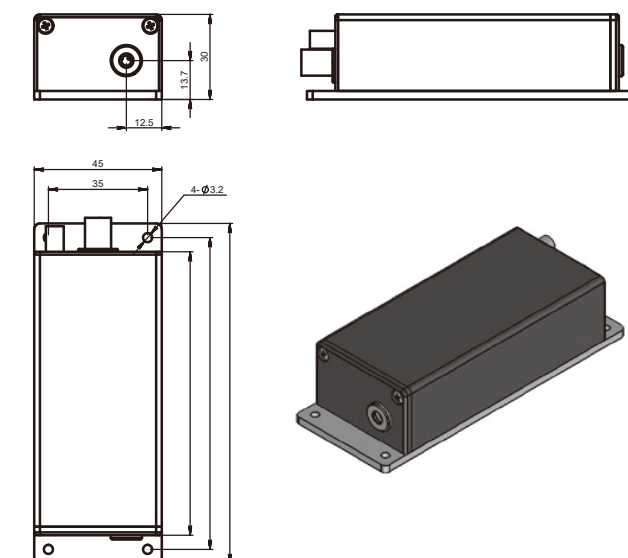
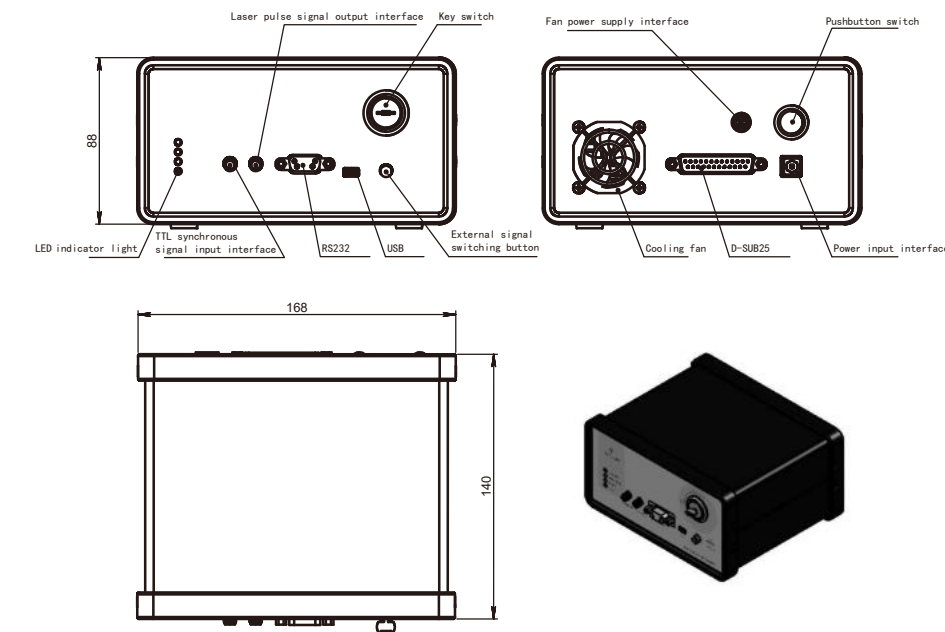
### FEATURES

- Pulse width up to 300ps
- Pulse energy up to 150μJ
- Beam mode is TEM<sub>00</sub>
- High polarization direction stability
- Maximum repetition rate up to 1kHz
- Fully sealed design, high reliability

### APPLICATIONS

- Seed source
- Laser micromachining
- Laser ionization mass spectrometry
- Nonlinear optical measurement
- Laser induced fluorescence
- Laser induced breakdown spectroscopy

### OUTLINE SIZE(mm)



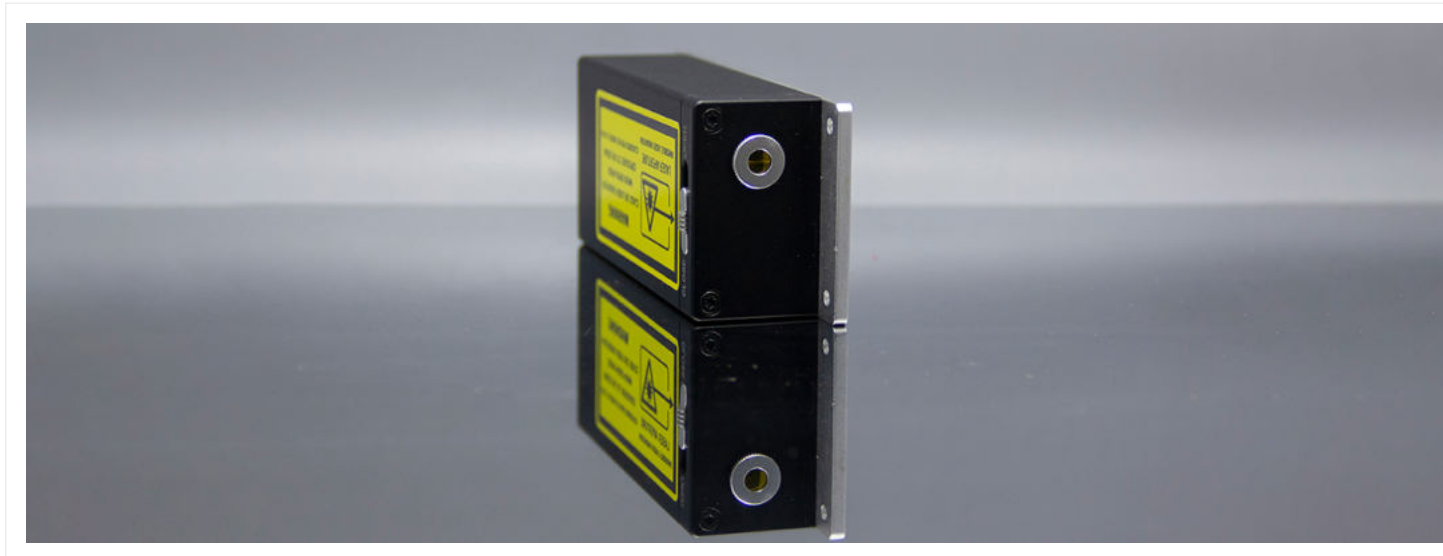
PARAMETERS

Model	UL266-0.1kHz-5μJ-MD001	
Optical parameter	Wavelength (nm)	266
	Repetition frequency (kHz)	0.1*
	Average power (mW)	0.5
	Output energy (uJ)	5
	Pulse width (ps)	300
	Power stability (8h)	±3%
	Beam mode	TEM <sub>00</sub>
	Full-angle divergence angle Typ. (Mrad) level @1/e <sup>2</sup>	8
	Vertical @1/e <sup>2</sup>	8
	Polarization characteristics	> 100:1
System parameters	System power consumption (W)	≤25
	Power input	100-240 VAC, 50/60Hz
	Control interface	RS232, USB
	Power supply size (W×H×L, mm)	168×88×140
	Laser head size (W×H×L, mm)	45×30×120
	Working temperature (°C)	15- 35
	Storage temperature (°C)	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)



# 266nm Nd:YAG q-switched picosecond laser MO Microchip laser system



## DESCRIPTION

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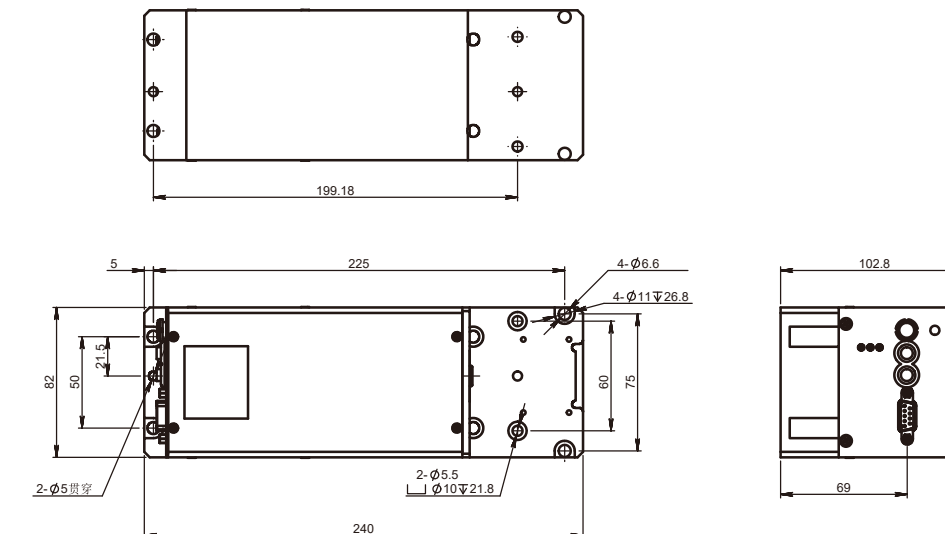
## FEATURES

- Pulse width < 1ns
- The repetition frequency is adjustable from 1 to 200Hz
- The laser energy is adjustable on the machine
- Optical trigger output signal jitter < 100ps
- Fully sealed design, high reliability
- Plug and play, including upper computer software

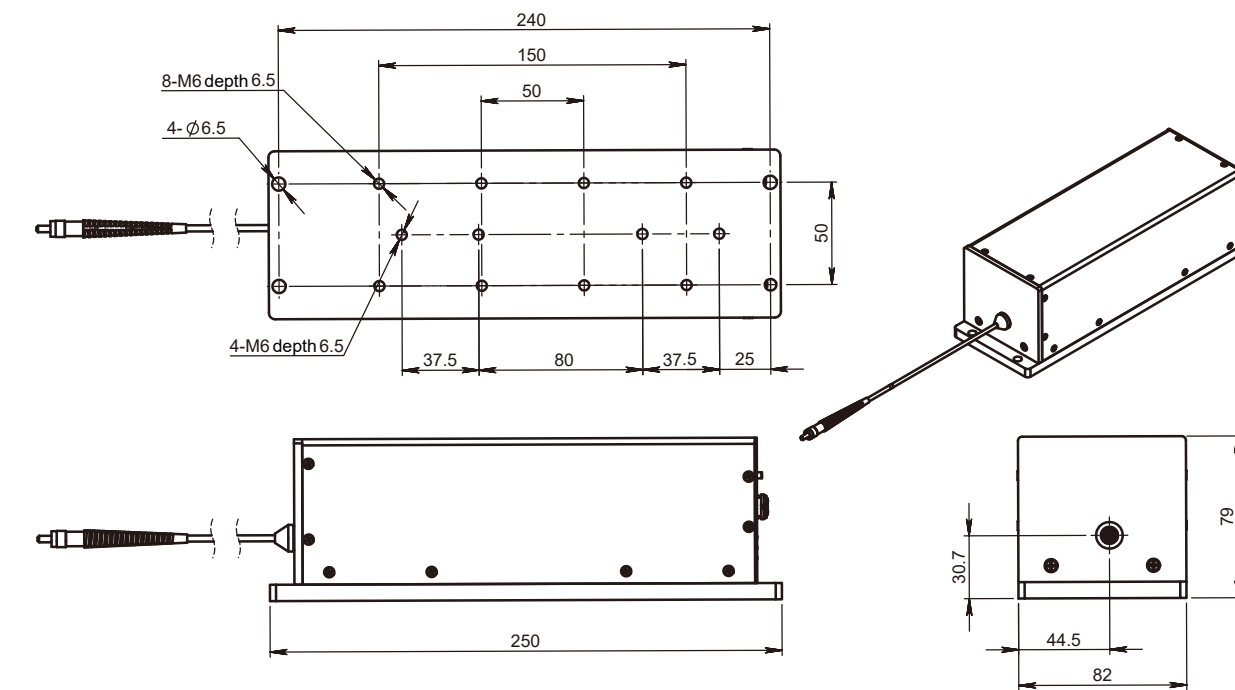
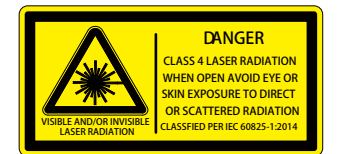
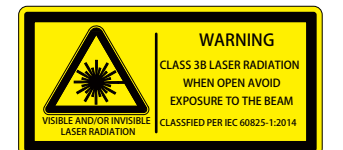
## APPLICATIONS

- Laser engraving
- Laser photoluminescence
- Laser capture micro-cutting
- Raman spectroscopy detection
- Laser induced breakdown spectrum
- Laser remote sensing

## OUTLINE SIZE(mm)



Space output size diagram



Optical fiber output size diagram

PARAMETERS

Optical parameter	Model	UL266-200Hz-15/10μJ-MO001
	Wavelength (nm)	266
	Repetition frequency (Hz)	1-200
	Maximum output energy of space beam (μJ)	15
	Fiber Coupling Maximum Output Energy (μJ)	10
	Pulse width (ns)	≤1
	Energy Stability (rms)	≤3%
	Energy Regulation Step Accuracy	≤2%
	Beam mode (spatial beam output)	TEM <sub>00</sub>
	Full-angle divergence angle Typ. (Mrad) level @1/e <sup>2</sup>	≤2
	Vertical @1/e <sup>2</sup>	≤2
	Polarization characteristics	≥100:1
	Fiber parameters (fiber coupled output optional)	200μm/0.22NA
System parameters	Power input	24V DC
	Modulation input	TTL0-5V,SMB connector
	Control interface	RS232
	System Peak Power Consumption (W)	< 20
	System Average Power Consumption (W)	< 10
	Laser size (W × H × L, mm)	82×102.8×240(space)/ 82x79x250(optical fiber)
	Working temperature (°C)	15-35
	Storage temperature (°C)	0-60

- 1. The supported operating frequency is 16~200Hz in continuous mode and burst mode.
- 2. Fiber core diameter: 200μm.
- 3. The power supply adapter is shipped with matching power supply, which can support 90~260VAC power supply input.

