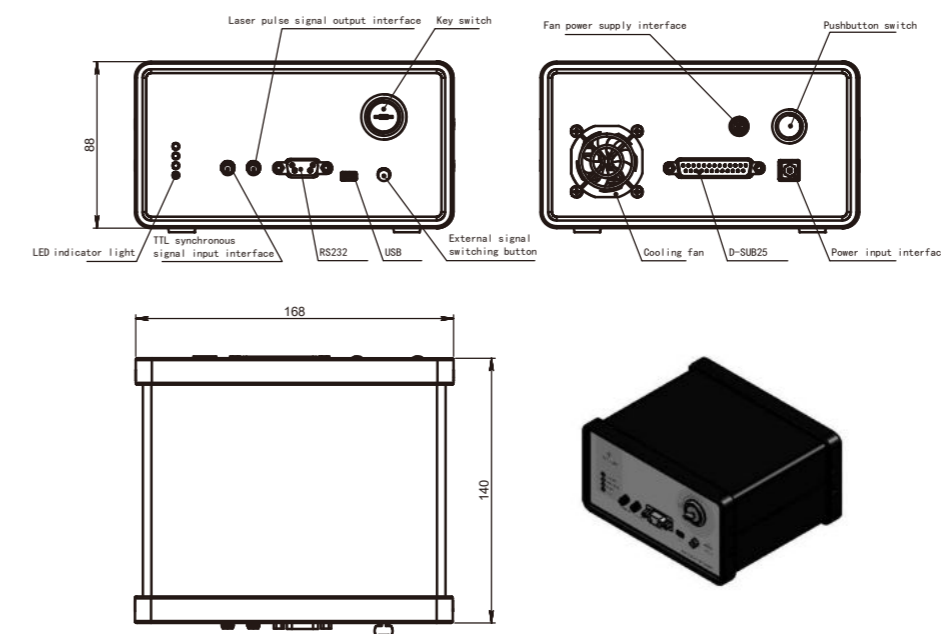


355nm Nd:YAG q-switched nanosecond laser MA Microchip laser system



OUTLINE SIZE(mm)



DESCRIPTION

Our 355nm laser is based on the technology of diode pump laser module and q-switch. Nd:YAG crystal is used to manufacture 355nm laser. ULaser can provide 1.5ns, 1ns, 500ps, 550ps and 300ps 355nm microchip laser.

Our 355nm microchip laser has narrow laser pulse width. At the same time, it has high pulse repetition frequency. As a microchip laser, its size is small and its weight is light certainly. Our laser's beam quality is excellent.

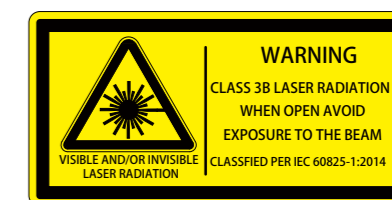
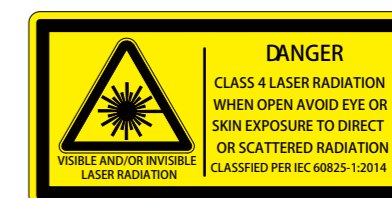
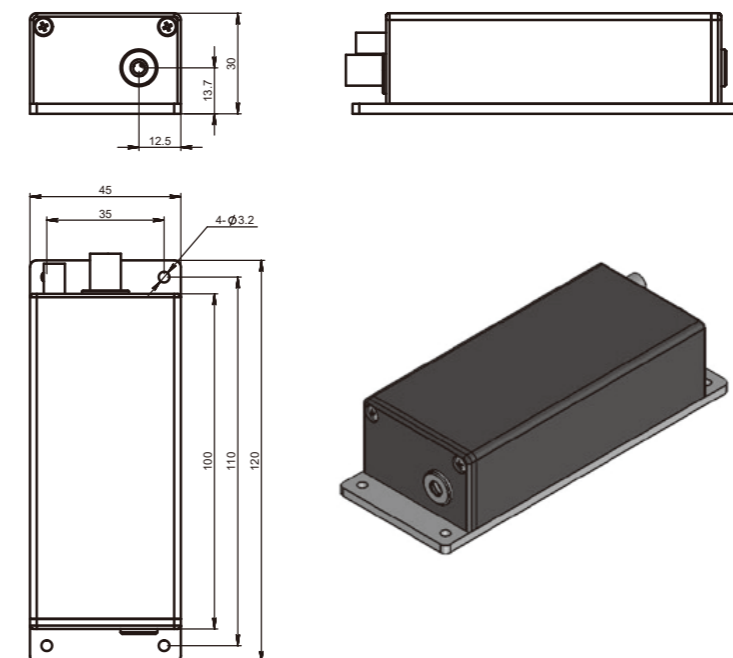
As a uv laser, 355nm microchip laser plays an important role in many fields. It can be used in environment monitoring systems, 3d dental scan, laser ultrasound, laser ionization mass spectrometry and so on.

FEATURES

- Pulse width up to 1ns
- Pulse energy up to 200μJ
- Repetition frequency up to 20kHz
- Beam mode is TEM₀₀
- Fully sealed design, high reliability

APPLICATIONS

- Lidar
- Laser ranging
- Atmospheric monitoring
- Laser ultrasonic inspection
- Optical metrology
- Laser-induced fluorescence



PARAMETERS

Model	UL355-1kHz-30μJ-MA005	UL355-5kHz-10μJ-MA006	UL355-10kHz-5μJ-MA007	UL355-20kHz-3μJ-MA008	
Optical parameter	Wavelength (nm)	355	355	355	
	Repetition frequency (kHz)	1*	5*	10*	20*
	Average power (mW)	30	50	50	60
	Output energy (μJ)	30	10	5	3
	Pulse width (ps)	1500	1200	1200	1200
	Power stability (8h)	±3%	±3%	±3%	±3%
	Beam mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	5	5	5	5
	Vertical @1/e ²	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)



355nm Nd:YAG q-switched picosecond laser MC Microchip laser system



DESCRIPTION

Our 355nm laser is based on the technology of diode pump laser module and q-switch. Nd:YAG crystal is used to manufacture 355nm laser. ULaser can provide 1.5ns, 1ns, 500ps, 550ps and 300ps 355nm microchip laser.

Our 355nm microchip laser has narrow laser pulse width. At the same time, it has high pulse repetition frequency. As a microchip laser, its size is small and its weight is light certainly. Our laser's beam quality is excellent.

As a uv laser, 355nm microchip laser plays an important role in many fields. It can be used in environment monitoring systems, 3d dental scan, laser ultrasound, laser ionization mass spectrometry and so on.

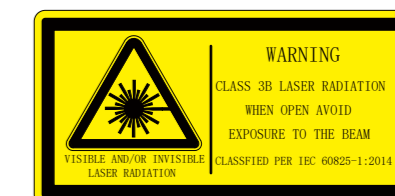
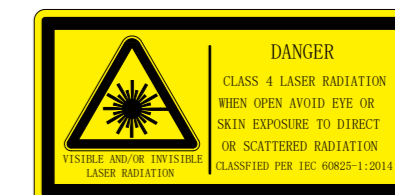
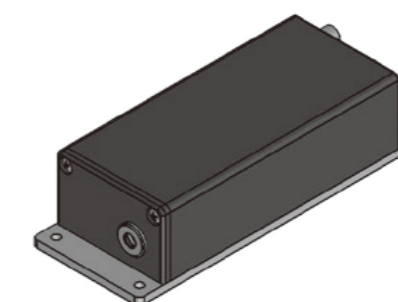
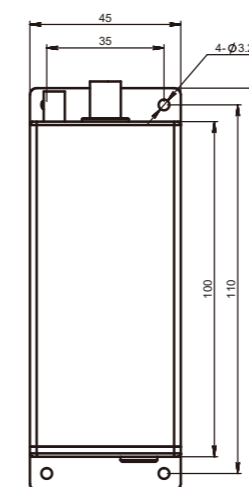
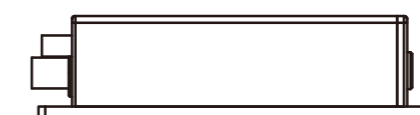
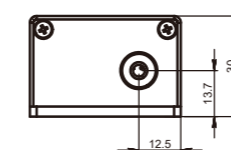
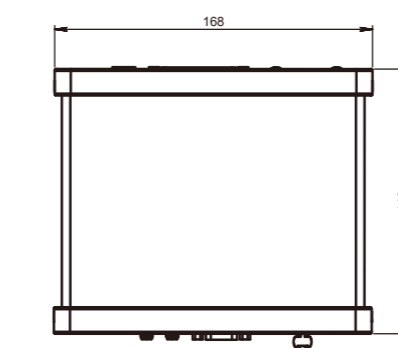
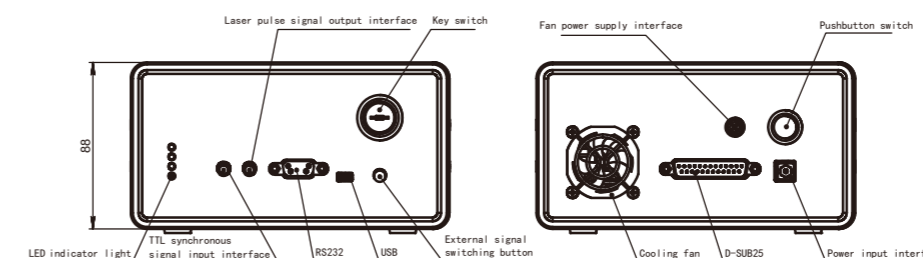
FEATURES

- Pulse width up to 550ps
- Pulse energy up to 120μJ
- High polarization direction stability
- Maximum repetition rate up to 10kHz
- Beam mode is TEM₀₀
- Fully sealed design, high reliability

APPLICATIONS

- Seed source
- Micromachining
- Biomedical science
- Laser ultrasonic inspection
- Laser ionization mass spectrometry
- Optical parametric oscillating pump source

OUTLINE SIZE(mm)



PARAMETERS

Model	UL355-1kHz-20μJ-MC005	UL355-5kHz-10μJ-MC006	UL355-10kHz-5μJ-MC007	
Optical parameter	Wavelength (nm)	355	355	355
	Repetition frequency (kHz)	1*	5*	10*
	Average power (mW)	20	50	50
	Output energy (μJ)	20	10	5
	Pulse width (ps)	650	650	650
	Power stability (8h)	±3%	±3%	±3%
	Beam mode	TEM ₀₀	TEM ₀₀	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	5	8	8
	Vertical @1/e ²	5	8	8
System parameters	Polarization characteristics	> 100:1	> 100:1	> 100:1
	System power consumption (W)	≤25	≤25	≤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

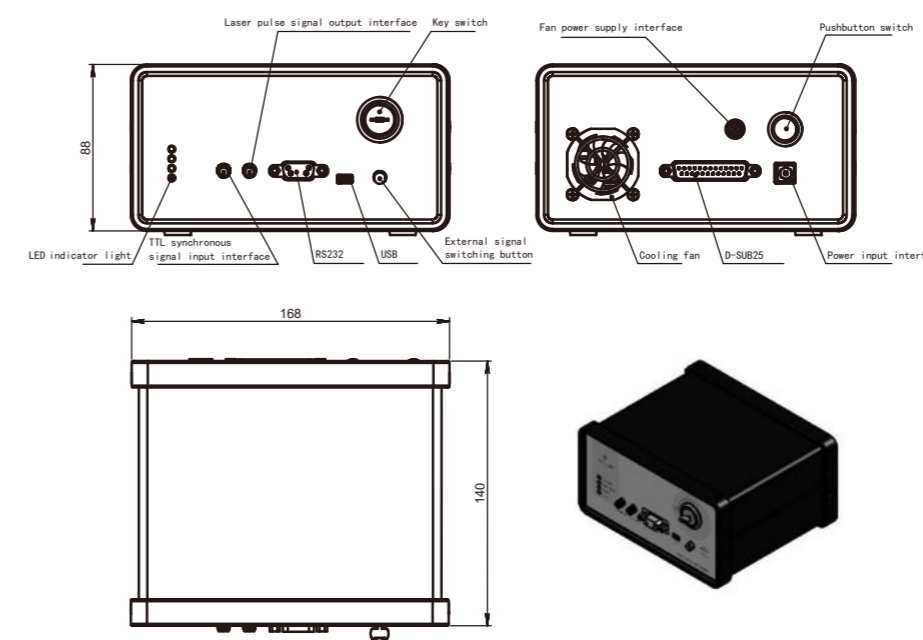
2.Customized internal beam expansion function to meet the requirements of small divergence angle (less than 2mrad)



355nm Nd:YAG q-switched picosecond laser MD Microchip laser system



OUTLINE SIZE(mm)



DESCRIPTION

Our 355nm laser is based on the technology of diode pump laser module and q-switch. Nd:YAG crystal is used to manufacture 355nm laser. ULaser can provide 1.5ns, 1ns, 500ps, 550ps and 300ps 355nm microchip laser.

Our 355nm microchip laser has narrow laser pulse width. At the same time, it has high pulse repetition frequency. As a microchip laser, its size is small and its weight is light certainly. Our laser's beam quality is excellent.

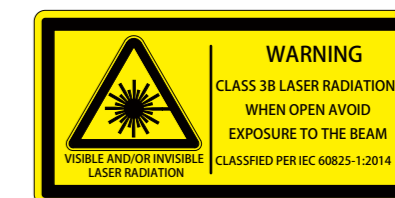
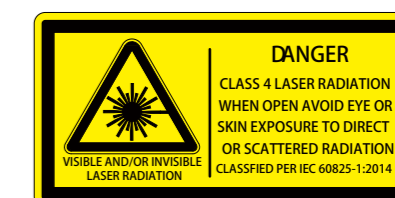
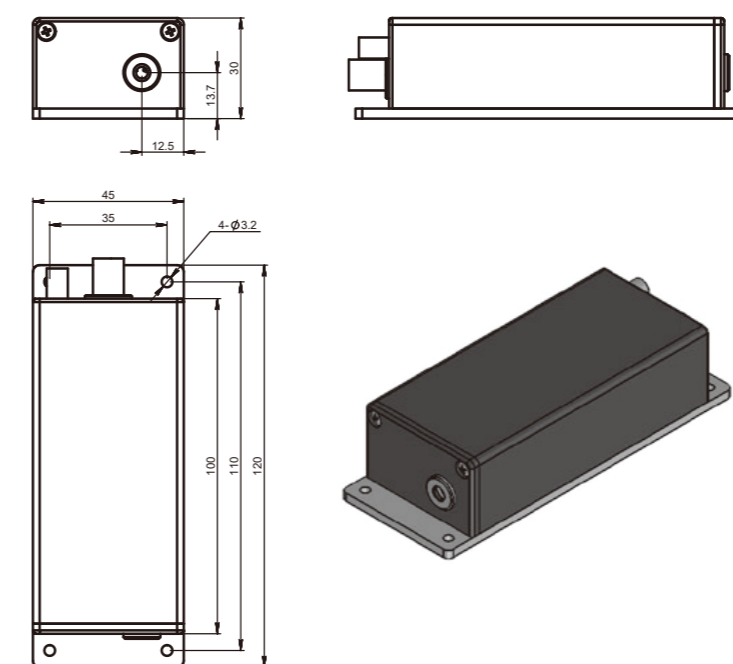
As a uv laser, 355nm microchip laser plays an important role in many fields. It can be used in environment monitoring systems, 3d dental scan, laser ultrasound, laser ionization mass spectrometry and so on.

FEATURES

- Pulse width up to 550ps
- Pulse energy up to 120μJ
- High polarization direction stability
- Maximum repetition rate up to 10kHz
- Beam mode is TEM₀₀
- Fully sealed design, high reliability

APPLICATIONS

- Seed source
- Micromachining
- Fluorescence lifetime measurement
- Laser-induced fluorescence
- Laser ionization mass spectrometry
- Non-linear optical measurement



PARAMETERS

Model	UL355-0.1kHz-15μJ-MD002	
Optical parameter	Wavelength (nm)	355
	Repetition frequency (kHz)	0.1*
	Average power(mW)	1.5
	Output energy (μJ)	15
	Pulse width (ps)	300
	Power stability (8h)	±3%
	Beam mode	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	8
	Vertical @1/e ²	8
System parameters	Polarization characteristics	> 100:1
	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

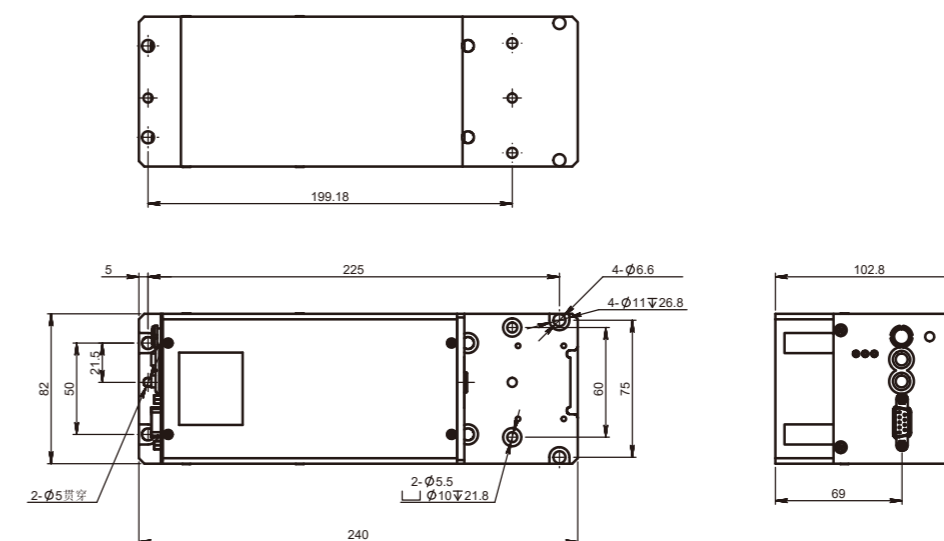
- *The light outlet of the laser head is side outlet. See the mechanical dimension drawing for details
- Customized internal beam expansion function to meet the requirements of small divergence angle (less than 2mrad)



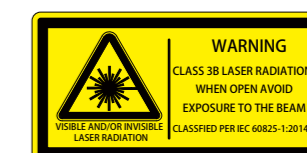
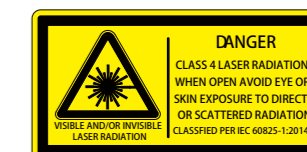
355nm Nd:YAG q-switched picosecond laser MO Microchip laser system



OUTLINE SIZE(mm)



Space output size diagram



DESCRIPTION

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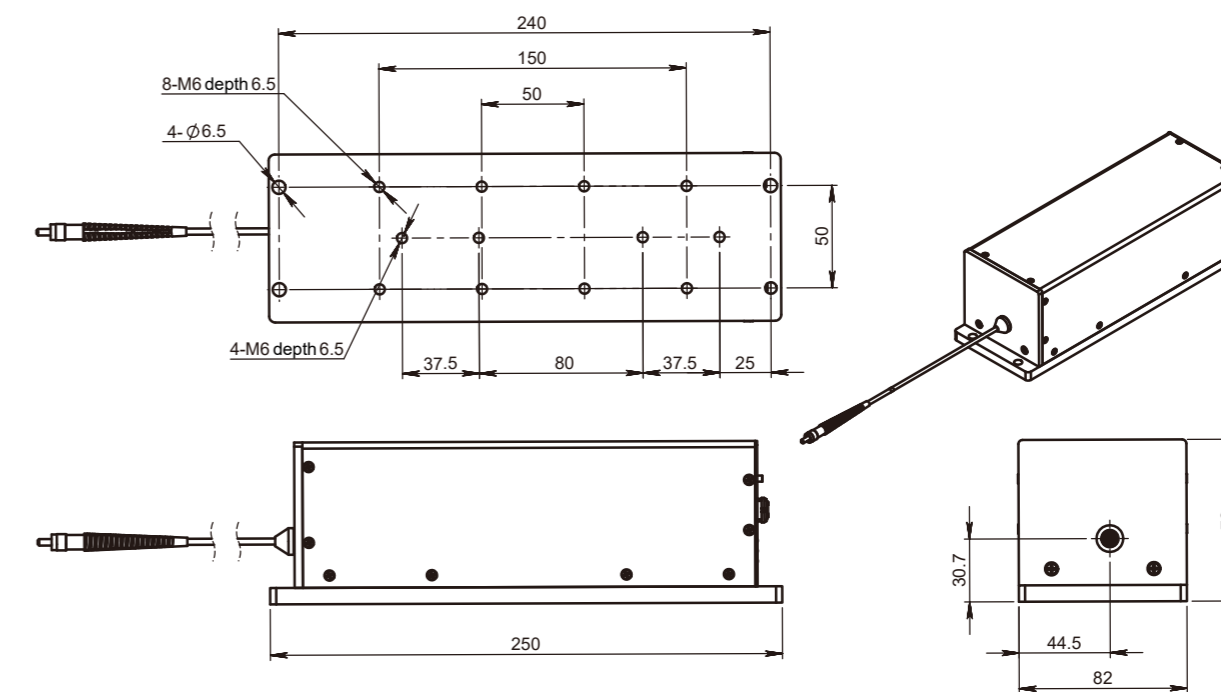
As a uv laser, 355nm microchip laser plays an important role in many fields. It can be used in environment monitoring systems, 3d dental scan, laser ultrasound, laser ionization mass spectrometry and so on.

FEATURES

- Maximum repetition rate up to 100kHz
- Pulse width up to 500ps
- Pulse energy up to 5μJ
- Single longitudinal mode
- Beam mode is TEM₀₀
- High polarization direction stability

APPLICATIONS

- Laser processing
- Seed source
- Analysis instrument
- Bioluminescent molecule



Optical fiber output size diagram

PARAMETERS

Model	UL355-200Hz-25/20μJ-MO002	
Optical parameter	Wavelength (nm)	355
	Repetition frequency (Hz)	1-200
	Maximum output energy of space beam (μJ)	25
	Fiber Coupling Maximum Output Energy (μJ)	20
	Pulse width (ns)	≤1
	Energy Stability(rms)	≤3%
	Energy Regulation Step Accuracy	≤2%
	Beam mode (spatial beam output)	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	≤2
	Vertical @1/e ²	≤2
System parameters	Polarization characteristics	≥100:1
	Fiber parameters (fiber coupled output optional)	200μm/0.22NA
	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)	10-40
	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.

