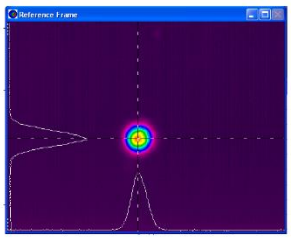
德龙激光
DelphiLaser

MP101 UV Nanosecond Laser

The MP series UV lasers feature a dual laser diode pumped crystal architecture that produces high power output at the 355 nm wavelength. Advanced resonant cavity design and laser control technology ensure excellent beam quality and narrow pulse widths during high power operation. Special thermal compensation and harmonic generation technologies enable stable and efficient frequency conversion.

Highlights:

- 20 – 100kHz pulse repetition rate
- TEM_{00}, (M^2<1.3)
- High long-term stability
- Small size and compact structure
- RS232 with external GATE and PWM control
- Field-replaceable laser diode module
- Assembled in class 1000 cleanroom



Applications:

- Film etching
- Laser marking
- Material micromachining
- Wafer cutting
- Micro-drilling
- Laser rapid prototyping
- Scientific research

Suzhou Delphi Laser Co., Ltd. (苏州德龙激光有限公司)
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Specifications:

Model:	**MP101**
Wavelength (nm):	355
Pulse Repetition Rate (kHz):	20 – 100 (up to 150)
Pulse Width (ns):	<25 @30kHz
Average Power (W):	5.0 – 7.0 @30kHz
Average Power Stability:	<±3% over 8 hours rms
Pulse-to-Pulse Instability:	<3% rms
Spatial Mode:	TEM_{00}, (M^2 <1.3)
Beam Divergence (mrad):	<2 (full angle)
1/e2 Beam Diameter (mm):	0.8 ±0.1
Beam Roundness:	>90%
Pointing Stability (μrad):	<50
Polarization Direction:	Horizontal
Polarization Ratio:	100:1
Cooling:	Water-cooling
Ambient Temperature (℃):	15 – 30
Relative Humidity:	10%-80% (non-condensing)
Storage Temperature (℃):	-10 – 50
Warm-up Time (mins):	<10
Operating Voltage (V):	90 – 260

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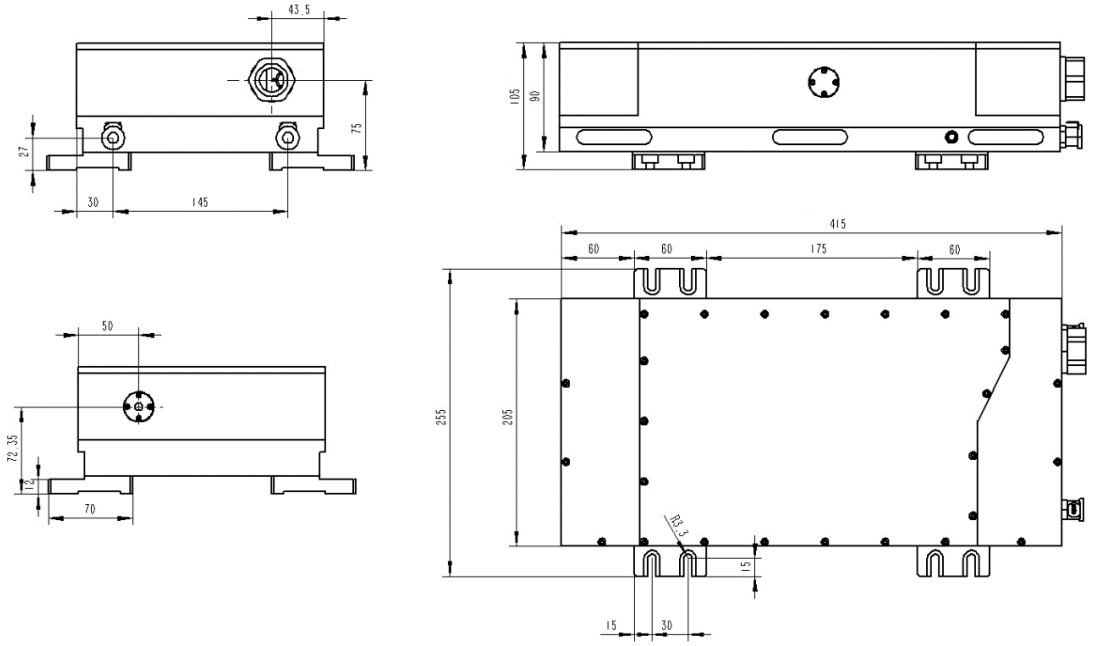
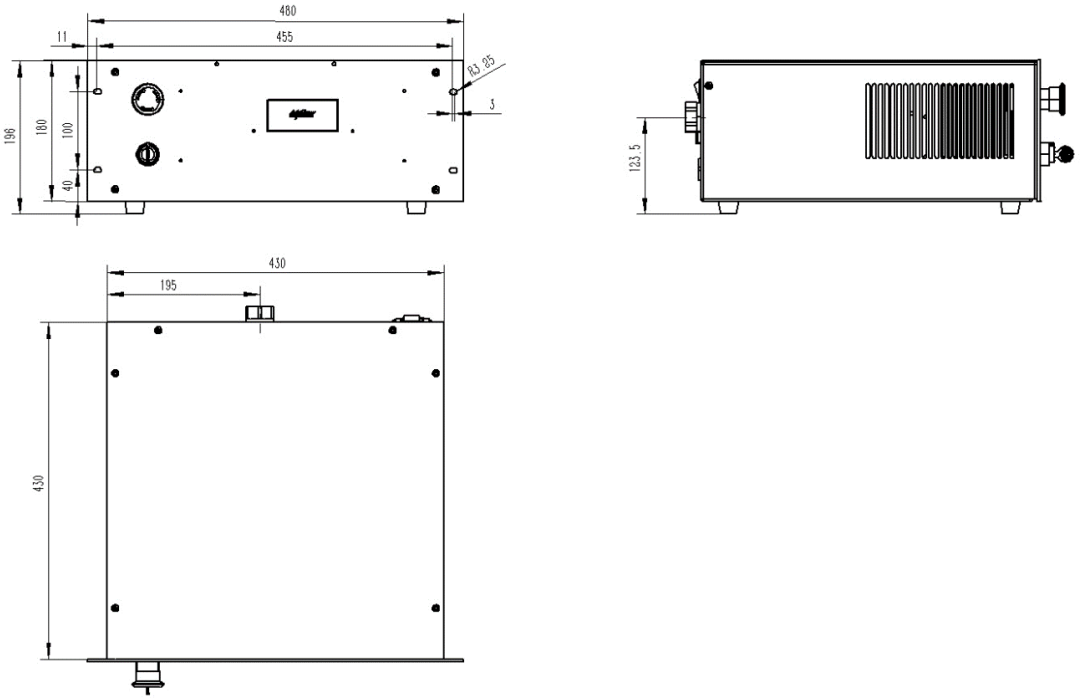
MP101 Laser Head External Dimensions:



MP101 Controller External Dimensions:



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