



## 355nm UV laser-50W



### The product description

Ultraviolet laser has the characteristics of good focusing performance, short wavelength, high photon energy and cold processing, and can stimulate specific photochemical reactions. These characteristics make it widely used in optical data storage, spectral analysis, optical disc control, photochemical reactions, atmospheric detection, biology, medicine and scientific research.

Uv laser has three distinct advantages in micromachining applications:

- The short wavelength can be used to process very small parts. The beam diffraction effect is a main reason to limit the minimum size of parts.
- Photons with high energy can directly destroy the chemical bonds of the molecules inside the material. This process is called "cold" processing process. Compared with visible laser and infrared laser, the heat affected zone is almost negligible.
- in nature most of the materials can absorb ultraviolet light, its characteristics make UV laser can process a lot of visible laser and infrared laser processing materials.
- Repeat rate adjustable
- External controllable
- Easy use & maintenance free
- Longlife operation
- High efficiency
- High reliability

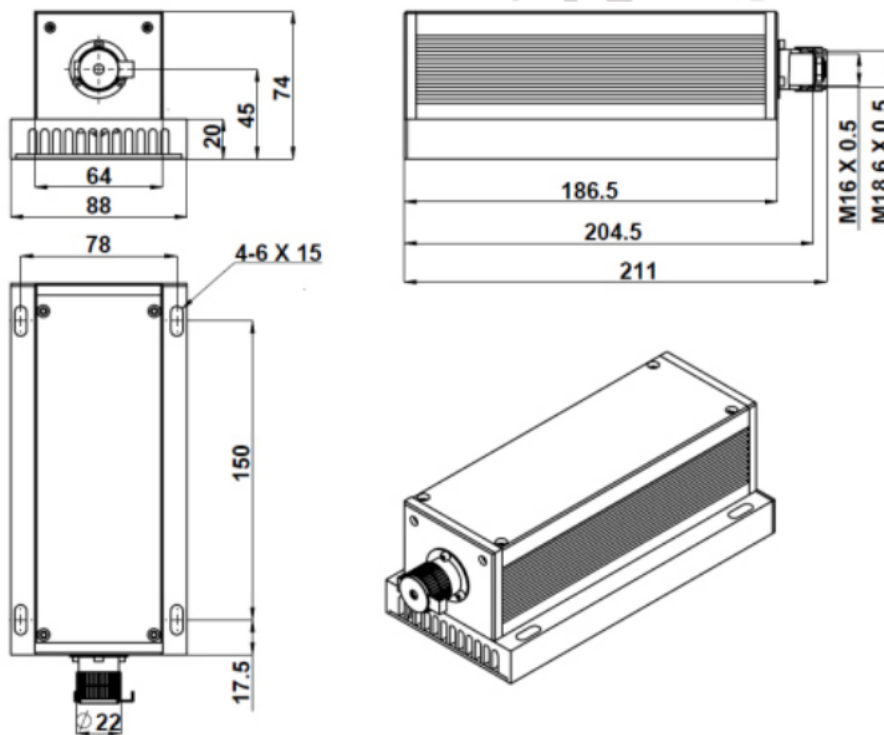
### Technical indicators

Model No.	GT-355-1-50
Wavelength	355+/-1nm
Spatial Mode	near TEM00
Output Power(average)	>1, 5, 10, ..., 50mW
Operation Mode	Pulsed laser
Single pulse energy	1-10uJ
Pulse Width	5-10ns
Peak Power	100W~2KW



Repeat rate	1~10KHz
Polarization	>50:1
Beam Spot Shape	Circular, aspect ratio<1.1:1
Pointing Stability	<0.05 mrad
Beam Diameter(1/e <sup>2</sup> )	2mm
Beam Divergence	<1.5 mrad
Beam Height from Base	45mm
Power Stability*	<± 5% per 4 hrs
Temperature Stabilizing	TEC
Warm Up Time	<5 minutes
Optimum Operating Temperature	20~30°C
Storage Temperature	10~50°C
MTTF**	10,000 hrs
Dimensions	211(L)x88(W)x74(H) mm
Power Supply	C. Adjustable Lab type : 178(W)x197(D)x84(H) mm <sup>3</sup>

### Laser head drawing





## Adjustable Lab type

