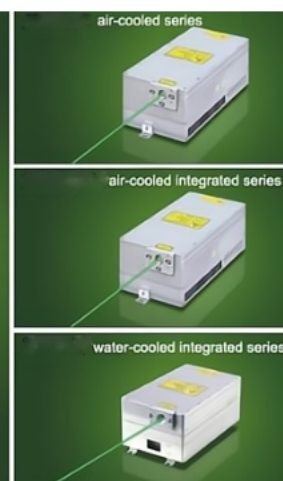




355nm UV laser-10w



The product description

355nm UV laser features with rugged sealed cavity, extremely compact size, simple and robust, high stability, high efficiency, high reliability and excellent laser beam quality. Its compact design suggests no necessity in building big light path, which greatly reduces space and cost and makes it easy to be installed into UV laser marking machines. In addition, cavity structure is more stability and more excellent scalability, which means the same laser cavity can be produces multi-power lasers, and the stability of different power ranges is greatly improved.

Characteristics of laser

1. 355 nm output wavelength, Up to 200 Hz repetition rate; laser power ranging from 3w-10w; Continuous tuning of repetition rate while maintaining constant pulse energy, superior beam pointing and energy stability make the first choice for micromachining, marking and thin film removal applications ;
2. Exceptional beam quality ($M^2 < 1.2$), absolutely assured in all repetition rates; relatively short pulse width $< 12\text{ns}@30$ with little heat transfer to surrounding material; perfect beam spot quality (Beam Circularity $> 90\%$) Close to Gaussian smooth beam profile with low value $M^2 < 1.2$ and good focusability are beneficial for applications such as ;
3. Unique Q-switching technology, adapts a variety of control requirements of laser applications; Online refreshment for harmonic coupling technology; Excellent long term power stability Rugged sealed cavity, Extremely compact size, Simple and robust ;
4. Digital control technology for the driver, RS232 control interface ensures easy control and integration with laser marking equipment ;



5. This laser adopts one - style design with compact and reasonable structure, easy installation.

Easy to transport and saves space due to compact and light design .

Water cooling , cost-effective and reliable end-pumping technology and amplifier-free DPSS design guarantee easy operation and alignment simple installation and low maintenance costs .

6. Industrial production process control technology,provides quality stable products.

Technical indicators

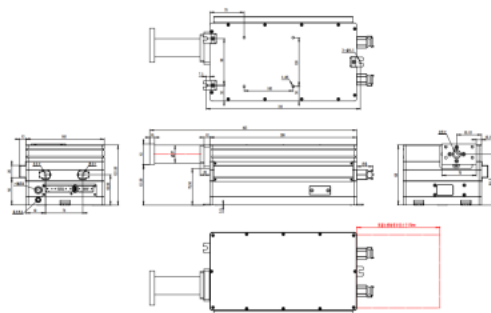
Model No.	GT-R355-10W					
	3W	5W	8W	10W	instructions	
Laser wavelength,nm	354.7	354.7	354.7	354.7	3-5w	8-10w
Average Output Power,W	> 3	> 5	> 8	> 10	@ 30kHz	@40kHz
Pulse Width,ns	< 15	< 15	< 15	< 15	@ 30kHz	@40kHz
Pulse Repetition Rate,kHz	20-200	20-200	20-200	20-200		
Spatial Mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀		
(M2)	< 1.2	< 1.2	< 1.2	< 1.2		
Beam Diameter,mm	0.8±0.1	0.8±0.1	0.8±0.1	0.8±0.1	Measured at window	
Beam Full Divergence Angle, mrad	< 1.5	< 1.5	< 1.5	< 1.5		
Beam Circularity,%	> 90	> 90	> 90	> 90		
Pulse-to-Pulse Stability,%	< 2	< 2	< 2	< 2	RMS/@ 30kHz	RMS/@40kHz
Average Power Stability,%	< 5	< 5	< 5	< 5	RMS/8hr	
Beam-Pointing Drift,μrad/°C	< 25	< 25	< 25	< 25		
Polarization Ratio	> 100:1	> 100:1	> 100:1	> 100:1		
Polarization Orientation	Horizontal	Horizontal	Horizontal	Horizontal		
Operating Temp. & RH	10 to 30°C	10 to 30°C	10 to 30°C	10 to 30°C		
	< 80%	< 80%	< 80%	< 80%		
Storage Temp. & RH	-20 to 65°C	-20 to 65°C	-20 to 65°C	-20 to 65°C		
	< 90%	< 90%	< 90%	< 90%		
Electricity Requirement	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	Single phase	
	50/60Hz	50/60Hz	50/60Hz	50/60Hz		
Power Consumption	< 500W	< 500W	< 500W	< 800W		

1. Laser power and other characteristics can be optimized in different repetition rate ranges.

2. Indicates the ambient temperature.

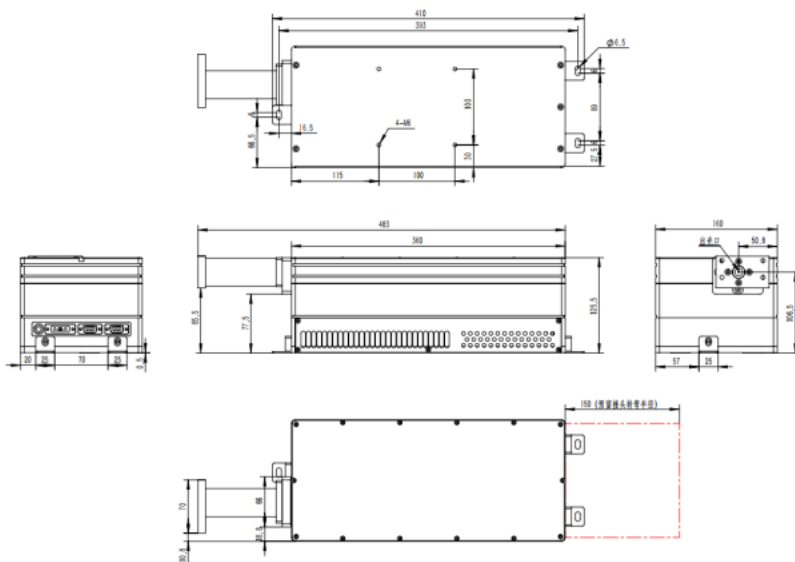
Structure size

Water-cooled all-in-one machine (Moisture-proof version)





Air cooling machine



Full-digital display, supporting communication with computer, capable of laser's remote control

