

355nm UV laser-15w



The product description

355 series water cooled UV laser covers 10W-15W in laser power with short pulse width ($<16\text{ns}@40\text{K}$), superior beam quality ($M^2 < 1.2$) and perfect laser spot quality (beam circularity $>90\%$). It is particularly suitable for PE/PCB/FPC cutting, glass & sapphire cutting, drilling, scribing and cutting used in high precision micromachining areas.

Characteristics of laser

1. 355 nm output wavelength, 10 to 200 Hz repetition rate; laser power ranging from 10w-15w; Continuous tuning of repetition rate while maintaining constant pulse energy, superior beam pointing and energy stability make the Excellent 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 $<16\text{ns}@40\text{K}$ 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.

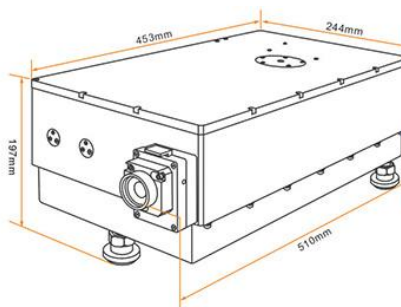
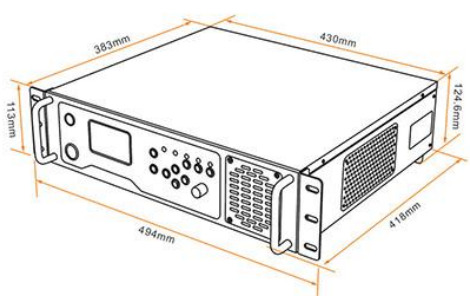
Technical indicators

Model No.	GT-R355-15W	
Laser wavelength, nm	354.7	instructions
Average Output Power, W	>15	@40kHz
Pulse Width, ns	<16	@40kHz
Pulse Repetition Rate, kHz	10-200	
Spatial Mode	TEM ₀₀	
(M ²)	<1.2	

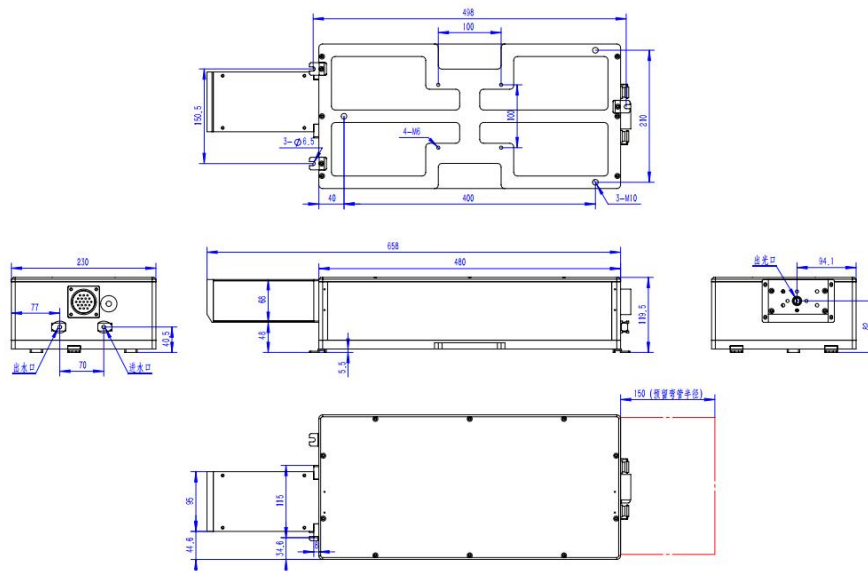


Beam Diameter,mm	2.5±0.2	Measured at window
Beam Full Divergence Angle,mrad	<0.5	
Beam Circularity,%	>90	
Pulse-to-Pulse Stability,%	<3	RMS/@40kHz
Average Power Stability,%	<5	RMS/8hr
Beam-Pointing Drift,μrad/°C	<30	
Polarization Ratio	>100:1	
Polarization Orientation	Horizontal	
Operating Temp. & RH	10 to 35°C	
	<80%	
Storage Temp. & RH	-20 to 65°C	
	<90%	
Electricity Requirement	100-240 VAC	Single phase
	50/60Hz	
Power Consumption	<500W	

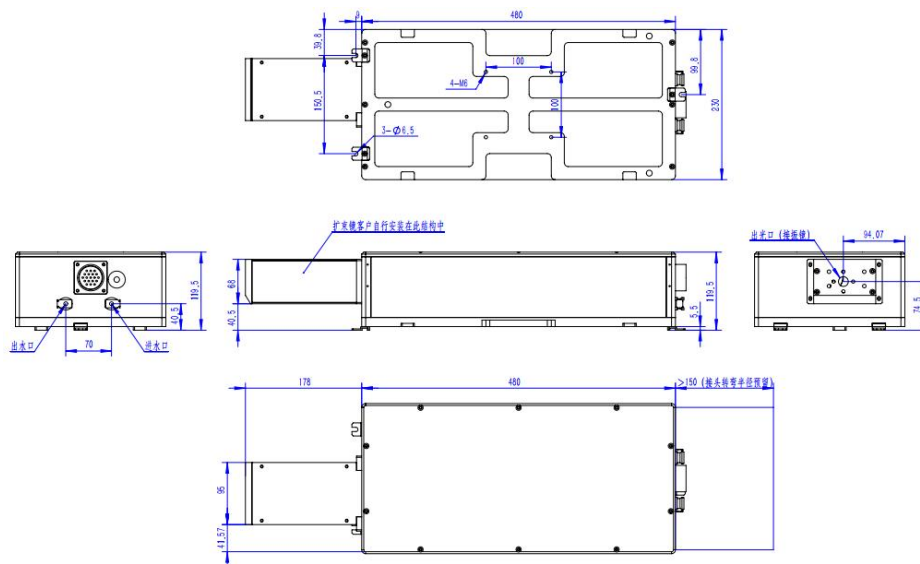
Structure size



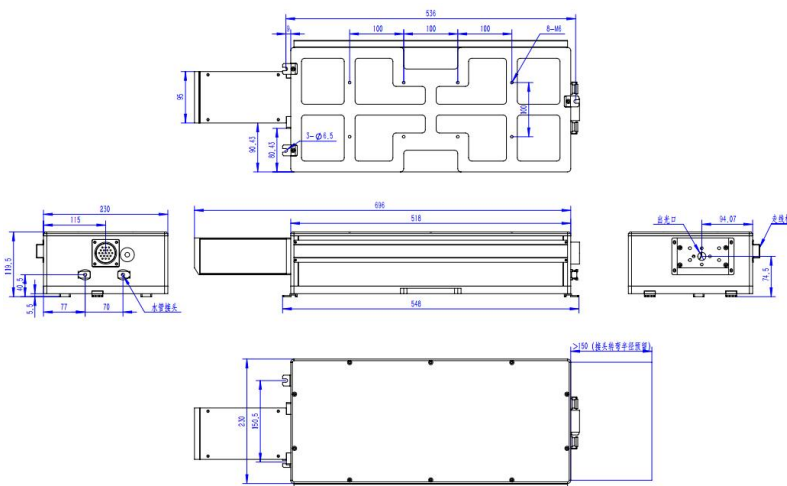
High frequency 12W/15W splitter



Low frequency 12W splitter



Low frequency 15W splitter



Full-digital display, supporting communication with computer, capable of



Operating Parameters

	Setting	Real
LD Current(A) :	<input type="text" value="5"/>	<input type="text" value="5.00"/>
LD Temperature(C) :	<input type="text" value="25"/>	<input type="text" value="25.00"/>
SHG Temperature(C) :	<input type="text" value="65"/>	<input type="text" value="65.00"/>
THG Temperature(C) :	<input type="text" value="65"/>	<input type="text" value="65.00"/>
FAN Temperaturure(C) :	<input type="text" value="25"/>	<input type="text" value="0"/>

Send

COM

LDD

QSWT

SHUTTER

FAULT

STATE

LBO

READY

COM

LDD

QSWT

SHUTTER

RESET

START

TEC Current

LD I TEC(A) :

FAN I TEC(A) :

SHG I TEC(A) :

THG I TEC(A) :

Modify parameter

Save

Unlock

Others Status

Laser Power Version :

Laser Power SN :

Error Code :

Warning Code :

LBO Point Number :

LBO Running Time(M) :

LD Runing Time(H) :

Detailed

Environment Status

Plate Temp(C)

Env Temp(C)

Humidity(%)

Laser Power

W

Q Switch Setting

Laser Mode :

☐

Gate Input :

☐

Trigger Mode :

☐

FPS Input :

☐

FPS Signal :

☐

External Start :

☐

Send

Q Switch More Setting

	Setting	Real		Setting	Real
RF Trs(us) :	<input type="text" value="200"/>	<input type="text" value="200"/>	RF Off Time(us) :	<input type="text" value="1"/>	<input type="text" value="1"/>
RF FPS Start(V) :	<input type="text" value="5"/>	<input type="text" value="5"/>	RF On Time(us) :	<input type="text" value="19"/>	<input type="text" value="19"/>
RF Low Pow(V) :	<input type="text" value="0"/>	<input type="text" value="0"/>	Int PRF(KHz) :	<input type="text" value="50"/>	<input type="text" value="50"/>
Rf Td Time(us) :	<input type="text" value="1"/>	<input type="text" value="1"/>			

Send