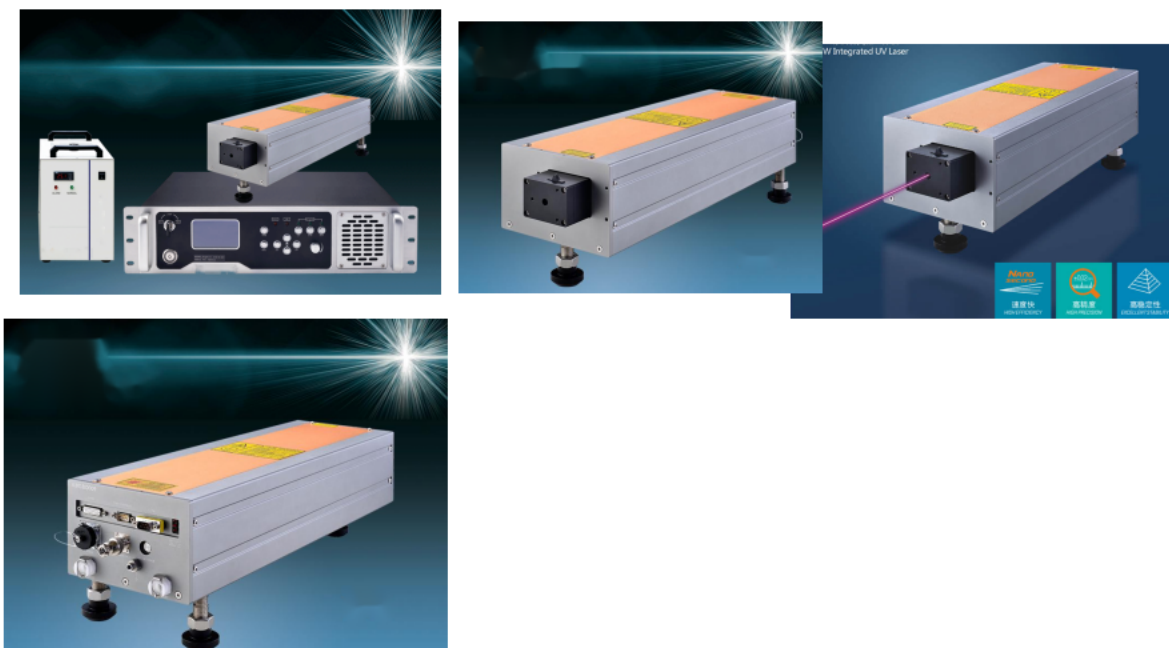


## 355nm Integrated UV laser-8w



### The product description

covers 4W/6W/8W in laser power with short pulse width ( $<20\text{ns}@30\text{K}$ ), superior beam quality ( $M^2 < 1.2$ ) and perfect laser spot quality (beam circularity  $>90\%$ ). K-6 series laser is ideal for high-end ultra-precise processing as well as marking in mobile phone shell, package of cosmetics, food, medicine and other high polymer materials, PCB, LCD, glassware surface, metal's cladding material, plastic keypad, electronic component, gift, communication device, construction material and other areas.

### Characteristics of laser

1. 355 nm output wavelength, 10 to 200 Hz repetition rate; laser power ranging from 4w/6w/8w; 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  $<20\text{ns}@30\text{K}$  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

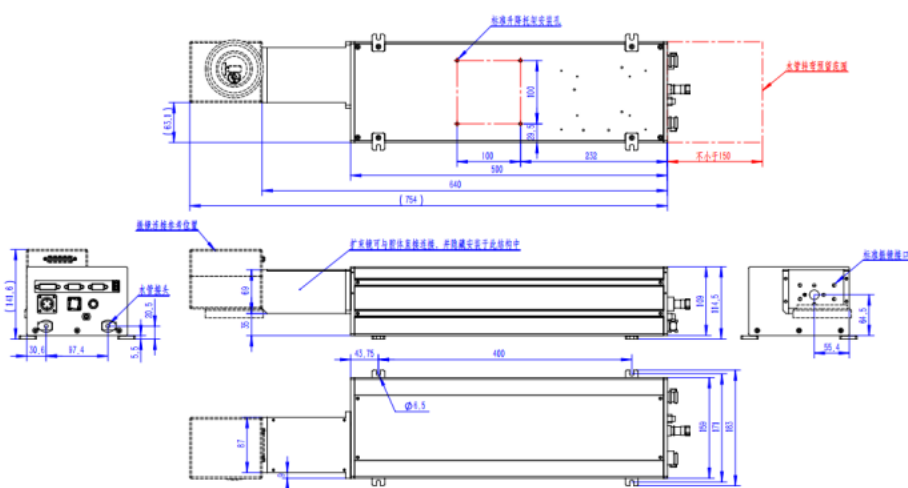
Water cooling, cost-effective and reliable end-pumping technology and amplifier-free DPSS design guarantee easy operation and alignment simple installation and low maintenance costs

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

## Technical indicators

Model No.	GT-R355-8W	
Laser wavelength,nm	355	instructions
Average Output Power,W	>8	@ 30kHz
Pulse Width,ns	< 20	@ 30kHz
Pulse Repetition Rate,kHz	10-200	
Spatial Mode	TEM <sub>00</sub>	
(M <sup>2</sup> )	<1.2	
Beam Diameter,mm	0.8±0.1	Measured at window
Beam Full Divergence Angle,mrad	<1.2	
Beam Circularity,%	> 90	
Pulse-to-Pulse Stability,%	<3	RMS
Average Power Stability,%	<5	RMS/8hr
Beam-Pointing Drift,μrad/°C	<25	
Polarization Ratio	> 100:1	
Polarization Orientation	Horizontal	
Operating Temp. & RH	10 to 35°C	
	<90%	
Storage Temp. & RH	-20 to 65°C	
	<90%	
Electricity Requirement	100-240 VAC	Single phase
	50/60Hz	
Power Consumption	<500W	

## Structure size





**Erbium group**  
To create laser miracles

<https://www.erbiumtechnology.com>

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

RFH\_LASER Navigator V1.0

RFH LaserDriver Monitor

Operating Parameters		Status Indicators								
	Setting	Real	COM	LDD	QSWT	SHUTTER	FAULT	STATE	LBO	READY
LD Current(A) :	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LD Temperature(C) :	0	0								
SHG Temperature(C) :	0	0								
THG Temperature(C) :	0	0								
FAN Temperature(C) :	0	0								

Send1

TEC Current				Modify parameter	
LD I TEC(A) :	0	FAN I TEC(A) :	0	Save	
SHG I TEC(A) :	0	THG I TEC(A) :	0	Unlock	

Others Status		Environment Status		Q Switch Setting	
Laser Power Version :		Plate Temp(C)	Env Temp(C)	Laser Mode :	Gate Input :
Laser Power SN :		0	0	Trigger Mode :	FPS Input :
Error Code :	0	Humidity(%)		FPS Signal :	External Start :
Warning Code :	0	0		Send2	
LBO Point Number :	0				
LBO Running Time(M) :	0				
LD Running Time(H) :	0				

Detailed

Q Switch More Setting	
Setting	Real
RF Trs(us) :	0
RF FPS Start(V) :	0
RF Low Pow(V) :	0
Rf Td Time(us) :	0
RF Off Time(us) :	0
RF On Time(us) :	0
Int PRF(KHz) :	0

Send3

Laser Power

0 W