

NANO UV LASER

Expert III 355 Series

12W / 15W / 20W

Nanosecond UV Laser



Laser wavelength

354.7nm

Pulse Width

<25ns

Pulse-to-Pulse Stability

<3%rms

Application

It is widely used in PE/PCB/FPC cutting, glass & sapphire cutting, drilling, scribing & cutting used in high precision micromaching areas.

PARAMETER	INDEX	DESCRIPTION
Laser wavelength	354.7nm	
Average Output Power	12W@40KHz 15W@50KHz 20W@100KHz	
Pulse Width	<20ns 12W@40KHz <25ns 15W@50KHz <15ns 20W@100KHz	
Pulse Repetition Rate	10-200kHz	
Spatial Mode	TEM00	
M ²	<1.2	
Beam Diameter	0.8±0.1mm	Measured at window
Beam Full Divergence Angle	<2.0mrad	
Beam Circularity	>90%	
Pulse-to-Pulse Stability	<3%	RMS/@30kHz
Average Power Stability	<3%	RMS/8hr
Beam-Pointing Drift	<25µrad/°C	
Polarization Ratio	>100:1	
Polarization Orientation	Horizontal	
Operating Temp. & RH	-20°C to 35°C <80%	
Storage Temp. & RH	10°C to 35°C <90%	
Electricity Requirement	100-240VAC 50/60Hz	Single phase
Power Consumption	<800W	

Laser power and other characteristics can be optimized in different repetition frequency ranges:
The temperature referred to is the ambient temperature.



Laser wavelength at 354.7mm, repetition rates cover a wide range (10kHz to 200kHz), laser power covers a range of 12W/15W/20W;



Exceptional beam quality ($M^2 < 1.2$), absolutely assured in all repetition rates; relatively short pulse width <20ns@40K / <25ns 15W@50KHz / <15ns 20W@100Khz, with little heat affected zone (HAZ);



Unique Q-switching technology, adapts a variety of control requirements of laser applications; longer laser lifespan and more stable operation;



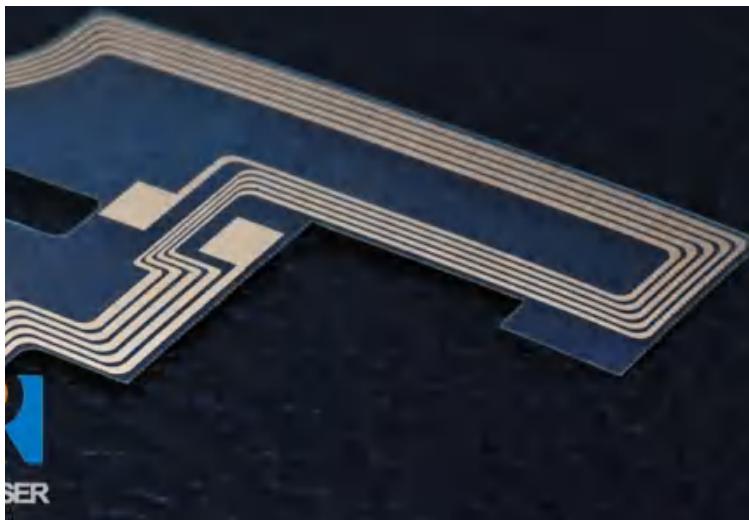
All-digital intelligent power control technology, easy to operate and convenient to monitor;



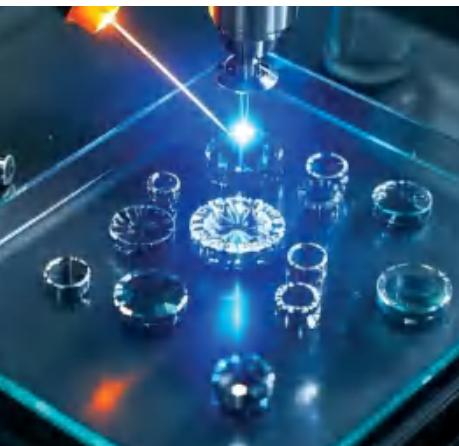
Support computer communication and external control of the laser via RS232;



All-in-one design, convenient for equipment integration.



PCB切割



Glass And Sapphire Cutting

Precision Drilling

Precision Cutting



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