RFH LASER

NANO GREEN LASER

Expert III - Y Series

40W

Nanosecond Green Laser

Laser wavelength	Pulse Width	Pulse-to-Pulse Stability
532nm	<20ns	<2%rms

Application

It is perfect for glass marking, thin film etching and surface treatment for most of the metals and non-metal materials, such as removing the oxide layer from the metal surface.

PARAMETER	INDEX	DESCRIPTION
Laser wavelength	532nm	
Average Output Power	>40W	@50kHz
Pulse Width	<20ns	@50kHz
Pulse Repetition Rate	20-200kHz	
Spatial Mode	TEM00	
M^2	<1.2	
Beam Diameter	1.0±0.2mm	Measured at window
Beam Full Divergence Angle	<1.5mrad	
Beam Circularity	>90%	
Pulse-to-Pulse Stability	<2%	RMS/@50kHz
Average Power Stability	<5%	RMS/8hr
Beam-Pointing Drift	<30μrad/℃	
Polarization Ratio	>100:1	
Polarization Orientation	Vertical	
Operating Temp. & RH	10℃ to 30℃	
	<80%	
Storage Temp. & RH	-20℃ to 65℃	
	<90%	
Electricity Requirement	100-240VAC	Single phase
	50/60Hz	
Power Consumption	<800W	

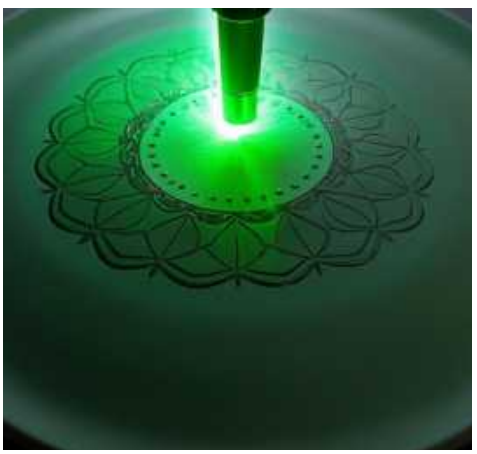
Laser power and other characteristics can be optimized in different repetition frequency ranges;
The temperature referred to is the ambient temperature.

- Laser wavelength at 532nm，repetition rates cover a wide range(20kHz to 200kHz）；
- Exceptional beam quality (M^2<1.2)，absolutely assured in all repetition rates; relatively short pulse width <20ns@50K 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.

Glass Marking

Film Etching

Removal Of Metal Oxide Layer



Surface Processing

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