PicoYL-20

YSL Photonics' PicoYL-20 has a continuously tunable pulse duration from 200ps to 2ns and repetition rates from 30 kHz up to 1 MHz. The short pulse duration, high repetition rates combined with over 150kW peak power give high speed, permanent black/color marking on a variety of metals, thin film coating and thermal sensitive materials. The single mode beam quality picosecond pulses with over 150kW peak power open up a variety of micromachining applications such as SiC/Silicon cutting, resistor trimming and marking of transparent material. The laser is completely controlled via an industry standard digital interface with optional DB25 or RS-232.

Features:

- Average Power ~20W
- Pulse Duration 200ps-2ns
- Peak Power 150kW
- Repetition Rate 30kHz-1000kHz
- Pulse Energy 100μJ@2ns or 30μJ@200ps
- M^2<1.3
- Burst Mode Function

Applications:

- Silicon or SiC Dicing
- LED Sapphire Substrate Dicing
- Lion Ion Battery Foil Cutting
- Thin Film Solar Cell Scribing
- Metal Marking
- Chrome Vanadium Texturing
- Micromaching of Transparent materials

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Specifications:

Model	PicoYL-20
Wavelength	1035nm
Average Power	~20W
Repetition Rate	30-1000kHz
Power Stability	<2%
Pulse Energy	>30μJ@200ps or >100μJ@2ns
Peak Power	150kW
Pulse Duration	200ps-2ns
Switch On/Off Time	<5μs
Beam Quality	M^2<1.3
Beam Diameter	~5mm（1m from output aperture）
Beam Divergence (Full Angle)	<2mrad (Defined by ISO-11146-1)
Output Polarization	Linear Polarized
Trigger	SMA
Supply Power/Current	AC 100V-240V 50/60Hz　Rated output＞960W
Dimensions	400mm*336mm*138mm
Control	RS232 or DB25

Optional 515nm output

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