

PicoYL-15

YSL Photonics' PicoYL-15 has a continuously tunable pulse duration from 100 ps to 4ns and repetition rates from 100 kHz up to 5MHz. The short pulse duration, high repetition rates combined with over 40kW 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 40kW peak power open up a variety of micromachining applications such as Li-Ion battery foil 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 >15W
- Pulse Duration 100ps-4ns
- Peak Power 40kW
- Repetition Rate 100kHz-5MHz
- Pulse Energy >150 μ J@4ns or >3 μ J@100ps
- $M^2 < 1.3$
- Burst Mode Function

Applications:

- Black Marking
- Lion Ion Battery Foil Cutting
- Thin Film Solar Cell Scribing
- Silicon or SiC Dicing
- Resister Trimming
- Chrome Vanadium Texturing
- Micromaching of Transparent materials

Specifications:

Model	PicoYL-15
Wavelength	1064nm
Average Power	>15W
Repetition Rate	100kHz-5MHz
Power Stability	<2%
Pulse Energy	>3μJ@100ps or >150μJ@4ns
Peak Power	50kW
Pulse Duration	100ps-4ns
Switch On/Off Time	<5μs
Beam Quality	M ² <1.3
Beam Diameter	~7mm (1m from output aperture)
Beam Divergence (Full Angle)	<2mrad (Defined by ISO-11146-1)
Output Polarization	Random
Trigger	SMA
Supply Power/Current	AC 100V-240V 50/60Hz Rated output > 960W
Dimensions	300mm*270mm*70mm
Control	RS232 or DB25