

Philon Sub-nanosecond lasers

Features:

- Short pulsewidth: <1ns
- Narrow Linewidth: <0.1nm
- High energy: >50 mJ
- MOPA configuration
- 1064nm/532nm/266nm selections
- Super reliability

Applications:

- Laser micromachining
- Laser marking
- Lidar
- Nonlinear Optics
- Harmonic generation



Philon series is sub-nanosecond MOPA laser system. It utilizes the world's most advanced long-life pump diodes together with an unique electro—optical Q-swth technology producing less than 1ns pulse seed; The MOPA structure is used amplifier sub-ns seed to tens mJ levels. With extra-cavity second harmonic (SHG) and fourth harmonic generation (FHG) Philon system is capable of expand output to green and UV range with tens mJ level pulse energies.

Philon series feature narrow linewidth, short pulses (sub-nanosecond), high pulse energy, high stability, long life, simple structure, less susceptible to external influences and so on. It can be widely used in laser micromachining, marking materials, optoelectronic countermeasures, Lidar, nonlinear optics, harmonic frequency conversion, pollution monitoring and other research, military, industrial fields.

Model	Philon-1064	Philon-532	Philon-266
Center wavelength	1064 nm	532 nm	266 nm
Line width	<0.1 nm	<0.1 nm	<0.1 nm
Pulse width	<1 ns	<1 ns	<1 ns
Pulse energy	>50 mJ	>20 mJ	>5 mJ
Repetition rate	1~10Hz	1~10Hz	1~10Hz
Spatial Mode	M ² <1.5	M ² <2	M ² <3
Pulse instability	<±1%	<±2%	<±3%
Size	Laser head	734 mm×178 mm×140 mm	
	Controller	520 mm×432 mm×133 mm	