



1.03 μm , 10 ps laser PL-1.03-10TM

PL-1.03-10TM – series picosecond laser is computer-controlled via RS-232 and DB25 interfaces and is SCANLAB compatible. The laser is capable of operating in burst mode with up to 16 pulses per burst. Power, burst repetition rate, number of pulses per burst, and pulse energy are programmable. Pulse duration is fixed at 10 picoseconds.

Specifications

Center wavelength	1.03 μm
Maximum average power*	10 W
Pulse duration	10 ps, fixed
Maximum energy per pulse**	5 μJ
Burst mode	Tunable 1 – 16 pulses per burst
Burst repetition rate	Tunable 50 kHz – 35 MHz
Pulse repetition rate within burst	35 MHz, fixed
Beam delivery	Free space, optically isolated
Output beam diameter (1/e²)***	1.0 mm
Beam quality	M² = 1.2
Polarization	Linearly polarized
Size	400 × 200 × 150 mm
Weight (with cooler)	8 kg
Power consumption	100 W
Cooling	Air cooled
Operating temperature	10° C - 40° C
Control	Both RS-232 and DB25, SCANLAB compatible

* 10 W is the maximum average power given that the pulse energy is at or below 5 μJ . For example, the maximum average power is 7.5 W for the 750 kHz burst rate and 2 pulses per burst.

** Maximum pulse energy of every pulse within the burst. Maximum total energy per burst is 80 μJ .

*** Measured immediately at the output from the laser.