

780 nm 10 GHz Picosecond Laser

Calmar's picosecond fiber lasers at 780 nm wavelength band provide researchers a powerful tool to explore the areas where 1550nm pulsed lasers do not cover.

Calmar's picosecond fiber lasers can be mode-locked manually or automatically. The automatic laser locking feature is especially convenient for users who are unfamiliar with actively mode-locked lasers.

Low timing jitter and low amplitude noise are characteristics of Calmar's picosecond fiber lasers, and ensure that the quality of the laser output meets even the most stringent test requirements.

Calmar's picosecond fiber lasers also provide users with the flexibility to vary the pulse repetition rate over a wide range, and to tune the wavelength from 765 ~ 780 nm region.

Quick configuration and easy operation are hallmarks of all Calmar Optcom's products.



- Pulse widths < 1.5 ps
- Repetition rate adjustment 5 – 13 GHz
- Wavelength tunability 765 ~ 780 nm
- Average output power 50 ~ 100 mW
- Low timing jitter
- Automatic and manual mode-locking
- Easy operation

Optional Upgrades

- Very wide repetition rate range
- Computer control
- Precision internal RF clock

Distribution in the UK

Lambda
photometrics

Lambda Photometrics Ltd, Lambda House, Batford Mill, Harpenden, Hertfordshire AL5 5BZ

E: info@lambdaphoto.co.uk W: www.lambdaphoto.co.uk T: +44 (0)1582 764334 F: +44 (0)1582 712084

The leading supplier of scientific and industrial lasers, optical systems and associated accessories, fibre optic components and instrumentation, and machine vision products.

Technical Specifications

Model Number	PSL-1R-FF	PSL-1R-PF	PSL-1R-FT	PSL-1R-PT
Pulse Width (ps)	< 1.5	< 1.5	< 1.5	< 1.5
Output Wavelength (nm)	780 (typical)	780 (typical)	765 ~ 780	765 ~ 780
Repetition Rate (GHz)	5 - 13	5 - 13	5 - 13	5 - 13
Timing Jitter (fs)	< 100	< 100	< 100	< 100
Amplitude Noise (%)	< 1.5	< 1.5	< 1.5	< 1.5
Output Power at 10 GHz (mW)	> 100	> 50	> 80	>40
Output Interface	Free Space*	Fiber Pigtail	Free Space*	Fiber Pigtail
Operating Temp (°C)	15 - 30	15 - 30	15 - 30	15 - 30
Operating Voltage (V)	85 - 264 AC	85 - 264 AC	85 - 264 AC	85 - 264 AC
Dimensions (cm)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)

* Beam divergence for free space output < 1 degree.

Specifications are subject to change without notice - 11/5/2004

Safety Information

The product complies with FDA radiation performance standards 21 CFR 1040.10 and 1040.11

