

OESQL-100 Series Laser System

Description

The OESQL series are compact, self-contained, thermoelectric cooled, solid-state, fiber coupled lasers. It is widely used in sensor, instrumentation, biomedical and other industry application. The coupled fiber can be single mode, multimode and PM fibers. The wavelength of the laser is from 375nm UV to 1600nm infrared. The compact laser driver can be easily integrated into all the applicable safety features. Customer made fiber coupled laser system is also available.



Highlights

- Ultraviolet to infrared wavelengths, 375nm to 1600nm available.
- Power delivery by high brightness fiber.
- Laser head and driver are separated.
- Laser diode source.
- Precision TEC control system and Fiber Brag Grating to stabilize wavelength.

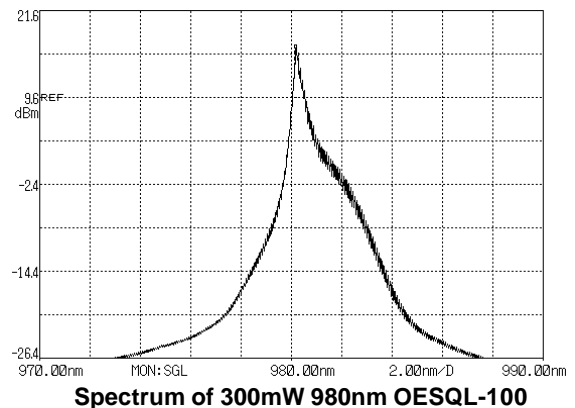
Applications

Industrial

- Photograph/Printing
- Heat treating
- Quick curing of epoxy glue
- Transformation hardening

Medical Research

- Laser hyperthermia photodynamic studies
- DNA analysis
- Contact cutting, ablation
- Coagulation necrosis
- Tissue welding/fusion





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Available spectral bands

Center Wavelength (nm)	SM Fiber Optic Power (mW)	MM Fiber Optic Power (mW)
375	0.5, 1	1, 2
405	0.5, 1, 5	1, 2, 8
440	2, 5	4, 8
635	1, 2, 5, 8	
660	1, 2, 5	300, 450
735	1, 10	
760	1, 10	
785	2, 10, 100	
808	2, 100	1200, 2000, 2500
850	2, 10, 20, 50, 100	500
905	2, 50, 100	
915	50	2000, 5000
945	2, 50, 100	
960	2, 50	
980	10, 50, 150, 300, 500	2000, 3000
1060	2, 50, 100, 200	
1310	2, 20, 50	
1430	150	
1480	150, 280	
1550	2, 20, 40, 100, 300, 500	500, 1000
1600	1, 40	50

Specifications

Power Output	0.5mW to 3 Watt.
Center Wavelength	375nm to 1600nm
Bandwidth (FWHM)	0.2nm to 3nm @CW: 375nm to 1300nm 0.5nm to 15nm @CW: 1310 to 1600nm
Wavelength Stability	TEC control and FBG stabilization
Connector	FC/PC, FC/APC/ SMA905
Fiber Type	SM, MM, PM
Output Power Protection	Soft start, over heat, over current
Output Control	Front panel laser enable switch
Power supply	DC5V, 1.0 to 2.5A
Size (HxWxD)	Laser Head: 45 x 50 x 125 mm Laser Driver: 70 x 76 x 170 mm
Operation Temperature	0°C-40°C
Humidity	5-95%, non-condensing