

Portable High Power Diode Laser System



BWF5 is a portable high power diode laser designed for applications requiring easy operation with fiber delivered high output power at certain wavelengths. With a microcontroller and color touch screen LCD, it provides intelligent safety features, ease of operation, and programmable operation settings. The innovative fiber calibration port design makes it possible to accommodate a variety of fibers while providing well regulated and optimum output power via the fibers. The calibration mechanism also provides means of alerting operators about degraded or defective fibers.

Highlights

- Power delivered by high-brightness fiber
- Stand-alone self-contained system
- Compact, TEC with forced air cooling
- 635-2000 nm wavelengths available
- Conversion into OEM system for qualified OEM customer

Applications

Industrial

- Selective soldering/de-soldering
- Heat treating
- Quick curing of epoxy
- Transformation hardening
- Plastic welding

Biomedical Research

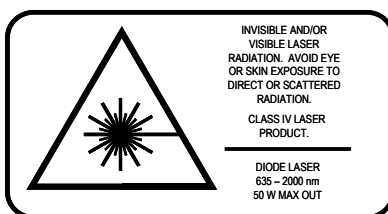
- Contact cutting, ablation
- Coagulation necrosis
- Tissue welding/fusion
- Laser hyperthermia photodynamic studies

BWF5

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Typical Specifications

Optical	
Power Output	5, 10, 15, 25, 30, 50 W or custom
Peak Wavelength Range	Available in 635-2000 nm, to be specified
Output Port	SMA 905
Beam Divergence	0.22-0.4 NA Nominal
Fiber Requirement	100-1000 μm core
Aiming Beam (optional)	650+/-10 nm @ < 5 mW (or 532 nm @ < 5 mW)
Electronic	
Input Power	110-220 VAC, 3-15A@110 VAC, Typical
Control	Microcontroller based front panel color LCD touch screen, programmable operation settings, built-in intelligent emission port, safety shutter, built-in fiber calibration port, foot switch operation capability.
Mechanical	
Physical Dimensions	170 mm (W) x 235 mm (H) x 325 mm (D) (up to 25 W version) 220 mm (W) x 290 mm (H) x 395 mm (D) (> 30 W version)
Cooling	Thermoelectric cooler with forced air conditioning
Weight	12 lbs (up to 25 W version) 19 lbs (> 30 W version)
Environmental	
Ambient Temperature	5-35°C
Humidity	5-95%, non-condensing



DISCLAIMER: This product complies with the requirements with Federal Regulations CDRH 21 CFR 1040.10. This laser is intended for scientific and industrial applications only and is not for use as a medical device.



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