

BWF2 Laser System

High Power, Portable Benchtop Fiber Delivered Laser System



With up to 30 watts of continuous laser power, the BWF2 is a fully integrated turnkey laser solution. The BWF2 combines a high brightness fiber-coupled laser diode, thermoelectric cooler, power supply, and control electronics in a complete package system that operates from a standard wall plug. The BWF2 includes features such as a visible (red) aiming beam, multifunctional relay control for versatile laser operations, remote port for external modulation and control, and an SMA 905 connector.

Features

- Plug-and-play turnkey laser solution
- Power delivered by high-brightness fiber
- Stand-alone, self-contained system
- 445-2000nm wavelengths available
- Available in OEM configurations
- Removable fiber
- Lens projection assembly spots as small as 0.3mm in diameter for intense, non-contact heat source
- Optional control interfaces via TTL or analog modulation for laser and aiming power
- Built to order for your application

Applications

Industrial

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

Medical Research

- **Contact cutting / ablation**
- **Coagulation necrosis**
- **Tissue welding/fusion**
- **Laser hyperthermia**
- **Photodynamic studies**

Typical Specifications

Optical	
Power Output ¹ (W)	Up to 30
Class	IIIb or IV, CW Output
Peak Wavelength Range (nm)	445-1850
Bandwidth (FWHM) (nm)	< 5 @ <1000 and < 15 @ 1000-1850
Output Port	SMA 905
Beam Divergence	0.12-0.4 NA Nominal
Fiber Requirement (μm)	100 - 1000
Aiming Beam (Optional)	650+/-20nm @ >1mW
Electronic	
Input Power	3 - 10A @ 110 VAC (Typical)
Control	Front panel current control and display 0-max TTL or Analog ports for laser output and aiming beam (Optional)
Mechanical	
Physical Dimensions	250mm x 120mm x 320mm (9.8" x 4.7" x 12.6")
Cooling	Thermal Electric Cooler with Internal Fan
Weight (lbs)	5-8
Environmental	
Ambient Temperature (°C)	5-30
Humidity	5-95%, Non-condensing

1. For clean, defect-free fiber and full rated output at SMA receptacle

Available Options:

- Visible aiming light
- Fiber (various diameters, numerical apertures and lengths)

DISCLAIMER:

This product complies with the requirements of 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.

