

# Fermion III Series Higher Power Fiber Coupled Lasers



## Features

- 405 nm to 976 nm
- up to 450mW
- Popular 100 $\mu$ m core fiber
- High stability
- Variable output
- Modulation
- Temperature stabilized
- Many accessories
- Certified Turnkey System

The Fermion III Series of Turnkey Fiber Coupled Lasers are designed to make using lasers easy and convenient. All lasers are coupled to 100 $\mu$ m core fiber for a consistent beam across all wavelengths. Lasers are also temperature controlled for high output power stability.

A range of discrete wavelengths cover the span from 405 nm to 976 nm.

Output power is adjustable using the knob or an external voltage source. The laser can run in CW or pulsed mode. Standard connection uses an FC connector. All lasers come with a 1 meter length of detachable fiber. Longer lengths of fiber are available so that the laser instrument can be located away from the experiment.

These lasers are excellent choices for microscopy, fluorescence excitation, photodynamic therapy, disease diagnostics, forensics, material analysis, pumping, illumination and many other applications.

Accessories include fiber collimators, fiber focusers and fiber assemblies.



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# Fermion III Series

## Specifications

Wavelengths:	405 nm to 976 nm
Wavelength tolerance:	$\pm 5$ nm to $\pm 10$ nm
Spectral width:	2 to 6 nm
Output powers:	to 450mW
Internal fiber:	100 $\mu$ m core
Back panel:	BNC, interlock BNC, laser monitor
Front panel:	FC laser output, BNC on modulation or remote adjustment input
Power requirements:	90-125 VAC, 190-250 VAC, 47-63Hz
Operating temperature range:	15 to 30°C (non condensing)
Storage temperature range:	0 to 60°C
Compliance:	CDR21 CFR 1040.10 certified system and IEC 60825-1.2 compliant for end users.

## Ordering Information

Model #	Wavelength	Power
F13 405M-450/FC	405 $\pm$ 5nm	450 mW
F13 450M-450/FC	450 $\pm$ 5nm	450 mW
F13 473M-450/FC	473 $\pm$ 5nm	450 mW
F13 488M-450/FC	488 $\pm$ 5nm	450 mW
F13 525M-450/FC	525 $\pm$ 10nm	450 mW
F13 638M-450/FC	638 $\pm$ 5nm	450 mW
F13 808M-450/FC	808 $\pm$ 5nm	450 mW
F13 830M-450/FC	830 $\pm$ 5nm	450 mW
F13 976M-450/FC	976 $\pm$ -10nm	450 mW

Please call for other wavelengths or power levels. See our Baryon Series OEM versions.

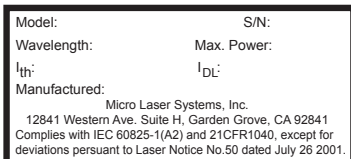
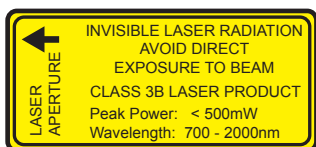
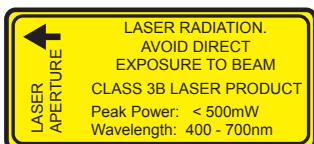
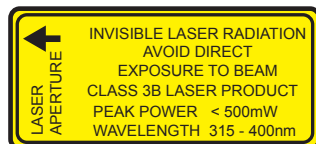
All lasers are manufactured in the USA.

## Options

A series of Fiber Collimators to generate 3mm to 100mm beams sizes snap onto the end of the fiber to give a collimated beam. Collimators have adjustable focus so you can adjust the beam size.

Fiber Focusers are also available to focus the beam to a highly focused spot.

Labels are illustrated here to comply with 21 CFR 1040.10 as applicable under the radiations for health and safety act of 1986. Complies with IEC60825-1.2.



Specifications subject to change without notice.



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