



Fiber-coupled Laser Diode Emitter



The Fiber-Coupled Laser Diode Emitter is a self contained source of near infrared radiation (808 nm) suitable for a variety of scientific and industrial applications including pumping of Nd: doped lasers crystals, material processing, medical applications, etc.

Applications

- Pumping of solid state laser
- Material processing
- Medical applications

Specifications

Emitter includes laser diode, Laser diode driver, term-electrical cooler, and controller.

Parameter	Pumping Module
Wavelength	808 nm
Pulse Repetition Rate	Up to 1000 Hz
Peak/ Power (after the fiber)	170 W
Duty Factor	Up to 20%

Optical Fiber Output Diameter	400 μm ; 600 μm
Numerical Aperture	~0.4
External triggering (Pulse Repetition Rate, Pulse Duration)	TTL or +4 V \pm 1 V, into 1 k Ω
Internal triggering	at fixed pulse repetition rate
Control Interface	RS-232
Electrical Power	120 VAC, 47-63 Hz, Single Phase
Power Consumption	100 W
Warm Up Time	< 1 min
Module Dimensions	330 x 483 x 133 mm ³

Content and Delivery

The turnkey package includes the following:

- Laser diode emitter
- 2-m optical fiber;
- Power Cable;
- RS-232 cable;
- Manual;
- Test Record;

Warranty

1 year for all parts and labor excluding the laser pump diode. The pump diode is warranted for the lesser of 1 year or 10⁹ pulses, whichever occurs first.

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