High Power 1064nm Fiber Laser; Laboratory Research Instrument with up to 1mJ Pulsed Energy

- Up to 20kW peak pulse power
- Turn-key benchtop instrument
- CW and pulsed modes of operation
- Up to 1 millijoule per pulse energy
- Optical feedback protection
FL-1064NM-10W Product Overview

These 1064nm Fiber Lasers offer up to 20kW of peak power, 1 mJ, front panel and remote interface from an affordable laboratory instrument. These turnkey microprocessor controlled benchtop / rack mount units are burn-in tested and are highly reliable with multiple integrated protection features.

Seed laser monitor and output power monitor

User Adjustable:
- Output power
- Pump laser diode current levels
- Pulse width 10-1,000 nsec
- Mode: CW or pulsed, ACC / APC

1 meter single mode fiber output, PM or random polarization
**OPTICAL**

<table>
<thead>
<tr>
<th>Operational Modes:</th>
<th>Pulsed or CW</th>
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<tbody>
<tr>
<td>Average Output Power Available Ranges:</td>
<td>5W, 10W, or 50W</td>
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<tr>
<td>Pulse Energy Ranges Available:</td>
<td>0.25, 0.5, 1.0 mJ</td>
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<tr>
<td>Pulse Width:</td>
<td>10 to 1,000 nanoseconds</td>
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<tr>
<td>Repetition Rate:</td>
<td>10 to 100 kHz (external TTL)</td>
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<tr>
<td>Wavelength:</td>
<td>1064.00nm +/- 0.04nm</td>
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<tr>
<td>Linewidth (typical):</td>
<td>0.2nm</td>
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<tr>
<td>Polarization:</td>
<td>Linear or random (request)</td>
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**APPLICATIONS**

- Laboratory Research
- Micromachining Applications
- Marking Applications
- Scribing
- Fiber Optic Sensing

**INTERFACE**

- Front Panel: Alphanumeric Color Front Panel Interface
- Remote: RS232, LabView control software included
- Remote: RJ-45 (TCP/IP Ethernet optional)
- Optical Connector Options: FC/APC, FC/UPC, SC/APC, SC/UPC
- Optical Fiber Options: PM fiber, SMF-28 (optional)

**GENERAL**

<table>
<thead>
<tr>
<th>Operating Temperature Range:</th>
<th>0 to +40°C</th>
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<tbody>
<tr>
<td>Storage Temperature:</td>
<td>-10 to +70°C</td>
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<tr>
<td>Power Supply:</td>
<td>90 – 240 VAC, 47 – 63Hz</td>
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<tr>
<td>Dimensions:</td>
<td>3U Rackmount, 450(W) x 615(D) x 150(H) mm</td>
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<tr>
<td>Chassis Safety Control:</td>
<td>Key-lock switch, BNC</td>
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<td>Interlock Key</td>
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**FL SERIES FIBER LASER REAR PANEL**

- Master enable ON/OFF key switch
- Safety interlock
- Ethernet and RS232 interface; includes Fiber Laser GUI and control software
- AC input 110~230 VAC 50/60 Hz

**Product Warranty:**
In addition to the standard full one year warranty, this product is offered with an additional 3 months of extended warranty for a total of 15 months of warranty coverage. The warranty includes all parts and labor. The warranty does not include customer induced product damage.

**Our Customer Commitment:**

- **You Get Direct, Fast Tech-Support from a Product ENGINEER ... Not a Sales Person**
  You get DIRECT access to the correct factory engineer for your product. We eliminate the sales person "middle-man" back and forth time delays resolving technical issues. No more "Contact Us" forms. Every product has an assigned engineer in our auto-messaging data base to give you direct, immediate access to the correct tech-support info.

- **You Get an Extended Warranty**
  All products from Laser Lab Source come with a 12 month factory warranty. Additionally, we offer and extra 3 months of warranty on top of the standard warranty. *Warranty does not include customer induced product damage.*

- **You Get the Lowest Factory-Direct Prices Worldwide**
  All of our 3rd party global suppliers set & quote their own direct pricing. There are NO Mark-Up's. You get their lowest direct price.