LMS-RGB2 Combined Triple-Wavelength Laser System

Overview:

The LMS-RGB2 Series of Combined-wavelength Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring red, green, and blue wavelengths to be emitted from a single laser module—simultaneously or individually. These RGB laser systems are available with up to 200 mW combined output power with a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for laser light shows (entertainment) as well as a variety of scientific applications including, PIV, Raman Spectroscopy, and a broad spectrum of other applications. The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions.

Available with TTL and Analog modulation, and in a wide array of output power and stability levels, Laserglow products are currently being used by some of the World's top universities and other prominent research facilities.

Key Features:

- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- TTL and Analog modulation (input via BNC connector) lab-spec models only
- Adjustable output power via lockable dial lab-spec models only
- LED display showing LD current, laser cavity temperature lab-spec models only
- FDA CDRH Compliant Class IIIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- BNC Connector (LabSpec models only)
- Keys, Safety Interlock
- Hard-shell Carrying Case

Series Specifications:

<table>
<thead>
<tr>
<th>Nominal Wavelength</th>
<th>473 nm, 532 nm, 660 nm</th>
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</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>CW</td>
</tr>
<tr>
<td>Laser Source Type</td>
<td>DPSS</td>
</tr>
</tbody>
</table>
Specifications:
This spec sheet has been generated specifically for part number M34-2, per your request. Each column represents the specifications of the individual component lasers that make up the multi-wavelength system.

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.
Power Supply Options:
These lasers are available with several different power supply options. The model that you have selected is highlighted below, and any other options are shown for easy reference.

Multi-wavelength lasers include a separate power supply for each wavelength. In some cases the power supply for each wavelength may be slightly different in size. If the dimensions of the power supply are a concern for you please inquire with us before placing your order.

*Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:
The model you have selected (M34-2) requires the following safety label(s):

- Avoid Exposure: Laser radiation emitted from this apparatus
- Danger: Laser radiation. Avoid direct exposure to beam
- Maximum Power Output: < 500 mW
- Wavelength: 808 nm
- Class IIIb Laser Product

This device is compliant with 21 CFR 1040.10 and 1040.11, Laser Council and IEC 60825-1, Class 3B, Class 4.

Toronto, ON, Canada M5C 1C4
Manufactured on 07/2012, Toronto, Canada
2 Housing
Lab/OEM

Aperture

Section A-A

Detail B

Scale: 1:1

271
[10.67]
85
[3.35]

281
[11.06]

261
[10.28]

281.800
[11.09]

73
[2.87]

50
[1.97]

5
[0.20]

5
[0.20]
**Accessories:**
The most popular accessories for model M34-2 are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Full Details</th>
<th>Included With Laser</th>
</tr>
</thead>
</table>
| ACALB237X   | Carrying Case-107  
Holds Lab/OEM 2/3 wavelength Labspec laser | [www.laserglow.com/ACA](http://www.laserglow.com/ACA) | Included With Laser |
| ACFVISHXA    | FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned)  
11mm diameter input lens | [www.laserglow.com/ACF](http://www.laserglow.com/ACF) | |
| ACSVISHXA    | SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned)  
11mm diameter input lens | [www.laserglow.com/ACS](http://www.laserglow.com/ACS) | |
| AFF2002XX    | Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length | [www.laserglow.com/AFF](http://www.laserglow.com/AFF) | |
| AFS2002XX    | Armored Fiber With SMA 905 Connectors 200um Core Multimode 2m length | [www.laserglow.com/AFS](http://www.laserglow.com/AFS) | |

**FOR MORE INFORMATION PLEASE CONTACT:**
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[sales@laserglow.com](mailto:sales@laserglow.com)  
[www.laserglow.com](http://www.laserglow.com)

E&OE: Data included in this sheet may be subject to change without notice.  
Please confirm critical specifications with our staff prior to ordering.