

Product Overview



COMPACT LASER MODULE WITHOUT COMPROMISES



KEY FEATURES:

- Output powers up to 1W
- High beam quality and stability
- Broad selection of wavelengths, fine-tunable
- Modulation up to 1.5 MHz
- Temperature-stabilized
- Long lifetime
- Software included

PowerBox laser controller



The PowerBox is a miniaturized laser controller for the Lambda Beam series of laser modules, providing power to the laser and controlling the emission and temperature. It is designed for industrial integration where small sizes and weights are important.

- Attaches directly to the Lambda Beam laser head
- Highly compact design
- Straightforward connection via screw-type terminal block
- Digital control via USB (RS-232 on request)
- Powered by 12 – 36 V DC
- Modulation input analog or digital 0 – 5 V DC
- Interlock on/off input

Alternatively, for laboratory applications and prototyping the PowerController can be used, featuring larger connectors and a keyswitch.

Full specifications for all products can be found in the datasheets available for download from our website.

*1 Multi-mode *2 Watercooler option recommended *3 on request

| Type | Wave-length | Maximum output power |
|-------|-------------|--|
| Diode | 375 nm | 20, 70, 200*1 mW |
| Diode | 395 nm | 120 mW |
| Diode | 405 nm | 75, 125, 175, 200, 300*2, 500*1*2, 1000*1,2 mW |
| Diode | 415 nm | 120 mW |
| Diode | 420 nm | 50 mW |
| Diode | 422 nm | 120 mW |
| Diode | 430nm | 50 mW |
| Diode | 445 nm | 50, 75, 100, 250*1, 500*1*2, 1000*1*2 mW |
| Diode | 450 nm | 75, 1000*1*2 mW |
| Diode | 455nm | 50, 100 mW |
| Diode | 473 nm | 100 mW |
| Diode | 488 nm | 20, 60, 200 mW |
| Diode | 505nm | 75 mW |
| Diode | 510nm | 50 mW |
| Diode | 515 nm | 25, 75 mW |
| Diode | 520 nm | 50, 120, 500*1*2 mW |
| DPSS | 532 nm | 75, 100, 125, 175, 200 mW |
| DPSS | 532 nm | 125, 175, 200 mW narrow line |
| Diode | 633 nm | 75 mW |
| Diode | 635 nm | 75, 125 mW |
| Diode | 638 nm | 75, 125, 175, 250*1, 500*1 mW |
| Diode | 642 nm | 75, 125, 175 mW |
| Diode | 650 nm | 150*1 mW |
| Diode | 660 nm | 75, 120, 175, 250*1 mW |
| Diode | 670 nm | 15, 250*1,2 mW |
| Diode | 685 nm | 40 mW |
| Diode | 705 nm | 40 mW |
| Diode | 730 nm | 40 mW |
| Diode | 785 nm | 75, 125, 200, mW |
| Diode | 805 nm | 500*1,2 mW |
| Diode | 808 nm | 75, 125, 175, 1000*1,2 mW |
| Diode | 830 nm | 45, 75, 125, 1000*1 mW |
| Diode | 852nm | 75, 125 mW |
| Diode | 905 nm | 100 mW |
| Diode | 915 nm | 75, 125, 175, 250, 1000*1*2 mW |
| Diode | 940 nm | 75, 125, 175, 200*1*2 mW |
| Diode | 980 nm | 75, 125, 175, 250, 1000*1*2 mW |
| Diode | 1064 nm | 75, 125, 175, 300*2, 500*2, 1000*1,2 mW |

Lambda Beam Wavelock™

Highly stabilized compact laser system

| Wavelength | Max. output power | Coherence length |
|-------------|-------------------|------------------|
| 405 nm | 12, 25, 40 mW | > 1.0 m |
| 633 nm | 40, 70 mW | > 10.0 m |
| 638, 640 nm | 32 mW | > 1.0 m |
| 638 nm | 120 mW | > 2.0 m |
| 658 nm | 35 mW | > 1.0 m |
| 685, 690 nm | 45 mW | > 3.0 m |
| 785 nm | 80, 100 mW | > 3.0 m |
| 785 nm | 175, 225 mW | > 10.0 m |
| 785 nm | 500*1*2 mW | > 4,0 mm |
| 785 nm | 75, 100 mW | > 0.6 cm |
| 808 nm | 120 mW | > 3.0 m |
| 830 nm | 500*1*2 mW | > 4.0 mm |



MINIATURIZED LASER MODULE



KEY FEATURES:

- Incredibly small yet fully featured
- Output powers up to 100 mW
- Powered via USB: no extra power adapter required
- Software included

Lambda Mini EVO

| Wavelength | Maximum output power |
|------------|----------------------|
| 375 nm | 50 mW |
| 405 nm | 15, 50 mW |
| 488 nm | 60 mW |
| 515 nm | 25 mW |
| 640 nm | 75 mW |
| 660 nm | 75 mW |
| 685 nm | 40 mW |
| 785 nm | 75 mW |
| 830 nm | 45 mW |

Lambda Mini FIBER

| Wavelength | Maximum output power |
|------------|----------------------|
| 405 nm | 15, 50 mW |
| 445 nm | 30 mW |
| 488 nm | 20 mW *3 |
| 520 nm | 25 mW *3 |
| 635 nm | 30, 60 mW |
| 660 nm | 50 mW |
| 785 nm | 50 mW |
| 808 nm | 50 mW |
| 830 nm | 50 mW |
| 1064 nm | 50 mW |
| 1310 nm | 10 mW |
| 1550 nm | 10 mW |

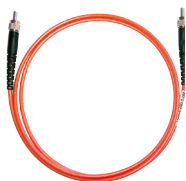
Accessories



Fiber Coupler



Shutter



Optical fiber cable

RGB Lasersystems GmbH
Donaupark 13
93309 Kelheim
Germany

Tel.: +49 9441 17 50 33 - 0
sales@rgb-photonics.com
www.rgb-photonics.com