

# Product Overview



## Compact Laser Module Without Compromises



### Type: Diode

Wave-length nm	375	380	395	405	415	420	422	425	430	435	440	445	450	455	473
Max output power mW	70 200* <sup>1</sup> 700* <sup>1&amp;2</sup>	175* <sup>1</sup>	120 200	40 75 125 175 200 300* <sup>2</sup> 500* <sup>1&amp;2</sup> 1000* <sup>1&amp;2</sup>	50 120	50	120	50	50	50	50	50 100 500* <sup>1&amp;2</sup> 1000* <sup>1&amp;2</sup>	75 1000* <sup>1&amp;2</sup>	100	100 225 900* <sup>1&amp;2</sup>

Wave-length nm	488	495	505	510	515	520	633	635	638	642	648	650	660	670
Max output power mW	50 100 200	75	75	75	25 150	50 80 120 500* <sup>1&amp;2</sup>	75	75 125	75 125 175 250* <sup>1&amp;2</sup> 500* <sup>1&amp;2</sup>	75 150	150	250* <sup>1</sup>	75 120 200	15 250* <sup>1&amp;2</sup>

Wave-length nm	675	685	690	705	730	760	780	785	795	805	808	820	825	830
Max output power mW	200	40	30 200	40	40	10	50	100 200 300* <sup>2</sup> 400* <sup>2</sup>	200	500* <sup>1&amp;2</sup>	75 150 1000* <sup>1&amp;2</sup>	100	200	45 75 125 225 1000* <sup>1&amp;2</sup>

### KEY FEATURES:

- \* Output powers up to 1W
- \* High beam Quality and stability
- \* Broad selection of wavelengths, fine-tuneable
- \* Modulation up to 1.5 MHz
- \* Temperature-stabilized
- \* Wavelength-stabilized systems available
- \* Control Software Ltunes included
- \* Two different controller versions
- \* Fiber coupler & fibers available

### Type: DPSS

Wave-length nm	532	532
Max output power mW	75 100 125 175 200	125 175 200 narrow line NL

Wave-length nm	840	850	852	880	905	915	940	960	980	995	1030	1064	1085	1550
Max output power mW	50 175	250	75 125 300 600	10	10 175	75 125 175 250* <sup>2</sup> 1000* <sup>1&amp;2</sup>	75 125 175 200* <sup>1</sup> 250* <sup>2</sup>	250	75 125 175 250 1000* <sup>1&amp;2</sup>	5	100	125 175 300* <sup>2</sup> 400* <sup>2</sup> 1000* <sup>1&amp;2</sup>	75	10 175



## Lambda Beam Wavelength

**Lambda Beam Wavelength**  
High stabilized compact laser system

Wave-length nm	405	633	638	640	658	785	785	808	808	852	852	976
Max output power mW	12 25 40	40 70	120	32	40	100	225	120	450* <sup>2</sup>	270	550* <sup>2</sup>	270
Co-herence length	> 1.0 m	> 10.0 m	> 2.0 m	> 1.0 m	> 1.0 m	> 1.5 m	> 10.0 m	> 2.0 m	> 10.0 m	> 1.5 cm	> 10.0 m	> 20.0 m



## Compact Laser Modules with fixed fiber for industrial integration and scientific applications



### KEY FEATURES:

- \* Output powers up to 300mW
- \* Broad selection of wavelengths; fine-tuneable
- \* Temperature-stabilized
- \* Single-mode/Polarization-maintaining available
- \* Wavelength-stabilized 785nm system available
- \* FC/PC or FC/APC connectors
- \* Control Software Ltunes included
- \* 8° Angle-Cleaved fiber to reduce

### Single Mode Fiber

Wave-length nm	405	450	488	515	520	633	635	637	642	658	660	670	685	705
Max output power mW	10	25	20	3	15	50	2.5 8	50 70	20	7.5 20 40 60	50	2.5	15	15

Wave-length nm	730	785	808	820	830	852	880	904	915	940	980	1064	1310	1550
Max output power mW	15	10 20 100	60	80	10 30	30 60	3	3	40	30	15 60	50	50	1.5 50

### Polarization-Maintaining Fiber

Wave-length nm	635	642	485	830	1310	1550
Max output power mW	2.5	20	6.25	10	2.5	22.5

### VHG Stabilized Single Mode Fiber

Wave-length nm	785
Max output power mW	50

### Multi Mode Fiber

Wave-length nm	405	635	658
Max output power mW	300	7.5	22.5

### Single Mode Fiber & Collimator

Wave-length nm	405
Max output power mW	30

\*<sup>1</sup> Multi-mode  
\*<sup>2</sup> Watercooler option recommended  
\*<sup>3</sup> on request



## Miniaturized Laser Module

### KEY FEATURES:

- \* Incredibly small yet fully featured
- \* Output powers up to 75 mW
- \* Powered via USB: no extra power adapter required
- \* Control Software Ltunes included
- \* Excellent value for money



### Lambda Mini EVO

Wave-length nm	405	450	488	515	520	640	660	685	785	830	1550
Max output power mW	15 50	75	50	25	50	75	75	40	75	50	20

### Lambda Mini Fiber

Wave-length nm	400	405	445	460	488	520	635	660	670	705
Max output power mW	30	15 50	30 50	50	30	30 50	30 50	50	50	15

Wave-length nm	730	785	820	830	905	940	1064	1310	1550
Max output power mW	15	50	50	50	50	50	15	10	10

## PowerBox Laser Controller



PowerBox



PowerController

### KEY FEATURES:

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 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, the **PowerController**\*<sup>3</sup> can be used, featuring larger connectors and a keyswitch.

## Accessories e.g.



Fiber Coupler



Optical Fiber Cable



Shutter



Heatsink incl. fan



Icestation

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\*<sup>1</sup> Multi-mode  
\*<sup>2</sup> Watercooler option recommended  
\*<sup>3</sup> on request