

λmini

MINIATURIZED LASER MODULE
COMPLETE WITH CONTROLLER AND USB POWER SUPPLY
IN AN INCREDIBLY SMALL PACKAGE

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

It's the world's smallest complete laser module in an amazingly small design, the Lambda Mini includes not only the laser diode and precision collimating optics, but also the laser controller and power supply via USB. All you need for operating and controlling the laser is a simple USB cable connected to your computer. Its compact size makes the Lambda Mini a perfect choice as a precision light source for space-limited applications.

- the Lambda Mini Evo emits a free collimated TEM₀₀ laser beam
- the Lambda Mini Fiber couples the beam into an optical fiber



λmini EVO

| Wavelength nm | Maximum output power mW |
|---------------|-------------------------|
| 375 | 50 |
| 405 | 50 |
| 450 | 75 |
| 488 | 50 |
| 515 | 25 |
| 520 | 50 |
| 635 | 30 |
| 640 | 50 |
| 660 | 75 |
| 670 | 10 |
| 685 | 40 |
| 705 | 35 |
| 730 | 40 |
| 760 | 10 |
| 785 | 75 |
| 808 | 75 |
| 830 | 50 |
| 840 | 45 |
| 852 | 30 |
| 880 | 10 |
| 904 | 10 |
| 940 | 45 |
| 980 | 45 |
| 1064 | 25 |

The actual emission wavelength may deviate from the specified wavelength by up to ± 5 nm (Lambda mini EVO)

| Wavelength nm | Maximum output power mW |
|---------------|-------------------------|
| 400 | 30 |
| 405 | 15, 50 |
| 445 | 30, 50 |
| 460 | 50 |
| 488 | 30 |
| 520 | 30, 40 |
| 635 | 30, 50 |
| 660 | 50 |
| 670 | 50 |
| 705 | 15 |
| 730 | 15 |
| 785 | 50 |
| 820 | 50 |
| 830 | 50 |
| 905 | 50 |
| 940 | 50 |
| 1064 | 15 |
| 1310 | 10 |
| 1550 | 10 |

The actual emission wavelength may deviate from the specified wavelength by up to ± 10 nm (Lambda mini FIBER)

Beam specifications for Lambda Mini EVO

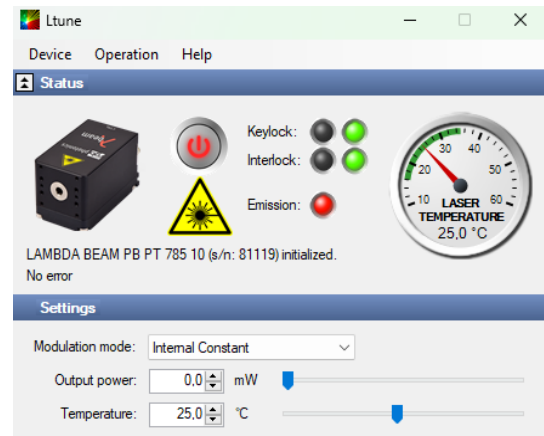
| | |
|--------------------|---|
| Beam diameter | 1.1 x 2.2 to 1.2 x 2.8 (depending on wavelength) |
| Divergence | < 0.9 mrad |
| Spatial beam mode | TEM ₀₀ |
| Polarization | linear, > 100:1 |
| Beam alignment | < 5mrad and < 0.1 mm (compared to base mount) |
| Pointing stability | < 5 μrad/K |



General specifications

| | |
|---------------------|---|
| Dimension | 40.0 x 25.0 x 25.0 mm (technical drawing available) |
| Weight | 41g |
| Warm-up time | 5 sec |
| Noise | < 2% RMS |
| Power stability | < 2% (10h) under stable environmental conditions |
| Drive mode | active current control |
| CDRH classification | 3b |
| Operating temp. | 0°C to 45°C (non-condensing) |
| Storage temp. | -25°C to 70°C |

Ltune control software



All operating parameters can be monitored and controlled from a PC using the Ltune laser control software for Windows. Alternatively, the laser can easily be controlled from your own application software. Please refer to the user manual for a detailed description of the communication protocol. You can find downloads on our website

Please contact us if your requirements are not matched by these specifications. Custom modifications are available for any quantities. All specifications are subject to change without notice. The latest versions can be found on our website.

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