

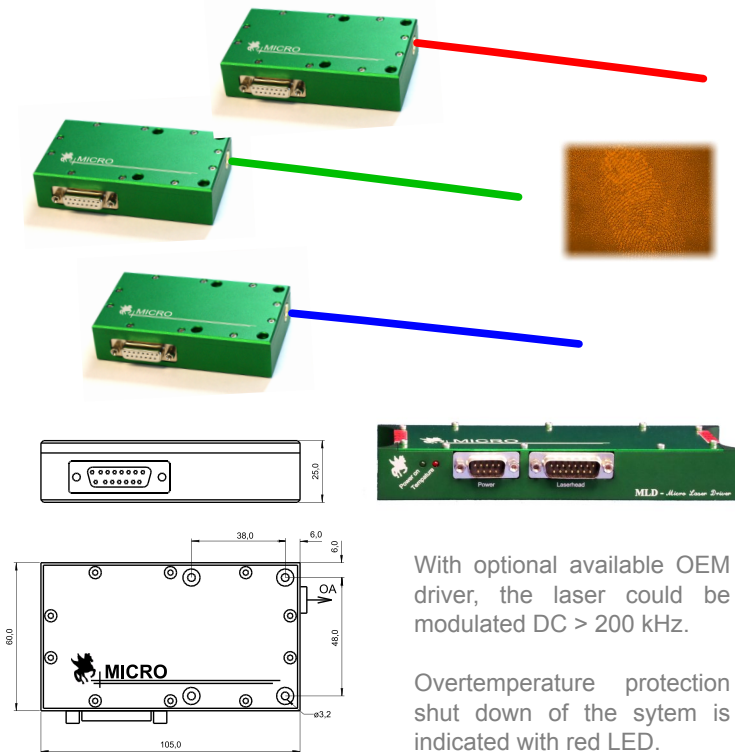
# MICRO-LD- Series

## Highest optical power

The PEGASUS MICRO-LD is a high power diode laser module. It is provided with "red" (638 nm), "green" (520 nm) "blue" (450 nm) and "violet" (405 nm) or other wavelengths on request.

The internal temperature stabilization confirms beside a high power stability, also a high wavelength stability, even for changing environment temperatures.

Optical power up to 5 W in the blue range at 450 nm in combination with its very compact OEM housing provides an ideal solution for forensic illumination application.



**405, 450, 520,  
638, 650, 810 nm**

### Specifications

**Wavelengths / max. power**

405 nm / 0.8 W
450 nm / 5.0 W
520 nm / 1.5 W
638 nm / 1.0 W
660 nm / 1.0 W
(others on request)

**Beam size** depends on model

**Power stability** < +/- 1 % (over 1 h)

**Spatial mode** Multimode

**Height of optical axis** 14.5 mm

**Operation current** < 10 A  
(depends on model)

**Modulation** DC - 200 kHz

**Laser head dimension** 105 x 60 x 25 mm<sup>3</sup>

**Weigh laser head** 360 g

**OEM driver dimension** 207 x 99 x 30mm<sup>3</sup>

**Laser class (EN 60825-1)** 4

**Note:** Specifications are given for T = 20°C constant environment.

		PL.M405.800	PL.M450.2200	PL.M450.5000	PL.M520.1500	PL.M638.1000	PL.M660.1000	PL.M810.12000
<b>Available wavelengths (1)</b>	<b>nm</b>	405	450	450	520	638	660	810
<b>Optical power (1)</b>	<b>mW</b>	800	2200	5000	1500	1000	1000	12000
<b>Beam shape</b>		Multimode	Multimode	Multimode	Multimode	Multimode	Multimode	Multimode
<b>Beam diameter</b>	<b>mm</b>	< 3.5 x 4.5	< 3.5 x 3.5	< 4.5 x 4.5	< 3.5 x 3.5	< 4.5 x 4.5	< 4.5 x 3.5	< 4.5 x 4.5
<b>Divergency (full angle)</b>	<b>mrad</b>	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.5	< 1.5
<b>Stability (over 1 h)</b>	<b>%</b>	< +/- 1						
<b>Internal TEC control</b>	<b>A</b>	Yes						
<b>Modulation (2)</b>	<b>kHz</b>	> 200 (-3dB)						
<b>Housing dimension</b>	<b>mm<sup>3</sup></b>	105 x 60 x 25						
<b>Cooling</b>		baseplate must be attached to external heatsink						
<b>Laserclass</b>		4						

(1) Other wavelengths and power on request

(2) depending on driver (not included)