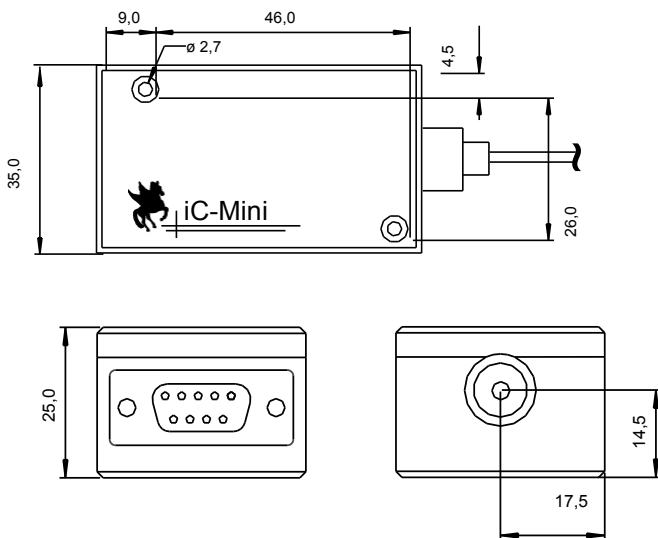
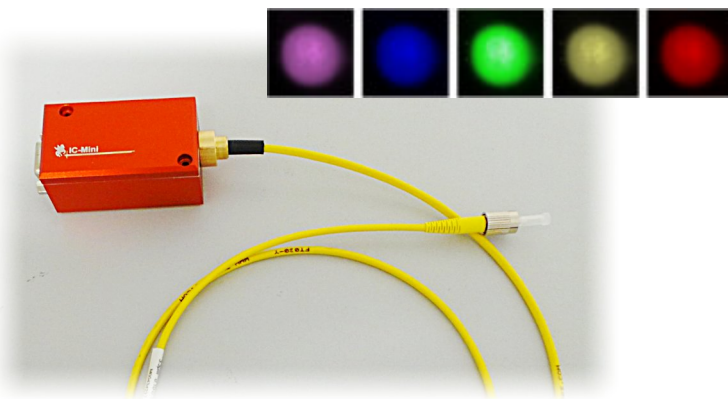


# iC-Mini series Fiber pigtailed diode module

The PEGASUS iC-Mini is a series of temperature stabilized diode laser modules, with good power and wavelength stability. The very compact housing of 60 x 35 x 25 mm<sup>3</sup> can be supplied with medium power singlemode or multimode UV, VIS or IR laser diodes. The rectangular baseplate ensures a much better heat dissipation than often used cylindrical housings to receive a better life time performance.

Additional to the freespace version, the modules are available with multimode (MM), singlemode (SM) or polarization maintaining (PM) fiber pigtail. Due to the fiber, the output beam has an excellent circularity, being the most versatile solution for integration in systems, as flow cytometry, particle measurement, machine vision or microscope illumination.



## Violet, blue, green, red, IR

### Specifications

	<u>Singlemode LD</u>	<u>Multimode LD</u>
<b>Available wavelengths (nm)</b> (others on request)	405, 445, 450, 488, 515 635, 638, 640 650, 660 785, 808	405, 450 462 515, 520 638, 520 650, 660, 670 785, 808
<b>Optical power</b>	up to 50 mW (depending on LD)	up to 500 mW (depending on LD)
<b>Fiber core</b>	3 - 5 µm	50, 100, 200, 400, 800 µm
<b>Fiber NA</b>	0.10 - 0.12	0.22
<b>Fiber connector</b>	FC/PC	SMA 905
<b>Power stability</b>	< +/- 2 % (over 1 h)	
<b>Temperature stabilization</b>	Internal TEC	
<b>Operation current</b>	< 2 A (depends on model)	
<b>Modulation</b>	Analog	
<b>Laser head dimension</b>	60 x 35 x 25 mm <sup>3</sup>	
<b>Operation temperature</b>	10 - 35°C	
<b>Laser class (EN 60825-1)</b>	3B or 4	
<b>Options</b>	- Fiber collimator (beam diameter 0.7 mm) - Line generating optics	

**Notes:** Laser baseplate must be attached to external heatsink.  
 Specifications are given for T = 20°C constant environment.

# *iC-Mini series*

## *Fiber pigtailed diode module*

### Option: Line optics

With the optional high quality Powell line generator the laser shows a homogeneous intensity distribution along the line. Standard fan angles are 30°, 45°, 60° or 90°. Other angles are available on request.

