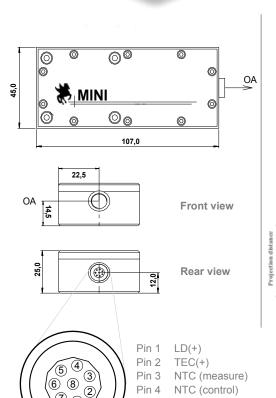


Mini series Compact diode module

The PEGASUS Mini is a series of temperature stabilized diode laser modules, with good power and wavelength stability. The compact industrial housing of $107 \times 45 \times 25 \text{ mm}^3$ 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 standard version with collimated, elliptical beam, the modules are optional available with line generating optic or as fiber pigtailed model, in order to provide a versatile solution for integration in several industrial systems, as flow cytometry, particle measurement, machine vision or microscope illumination.



Pin 5

Pin 6

Pin 7

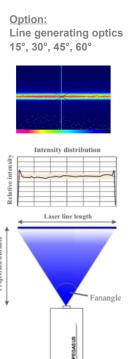
Pin 8

NTC (control)

NTC (measure)

TEC(-)

LD(-)



Violet, blue, green, red, IR

Specifications

Available wavelengths (nm)

(others on request)

Single mode (SM)	Multi mode (MI
405, 445, 450,	405, 450
488,	462
515	515, 520
635, 638, 640	638, 520
650, 660	650, 660, 670
785, 808	785, 808

Optical power

Option

Single mode (SM)	Multi mode (MM)
up to 200 mW	up to 1000 mW
(depending on LD)	(depending on LD)

Beam size	elliptical / rectangular
(exact size and ellipticity depends on model)	
Divergence	< 1.5 mrad (full angle)

Spatial mode	SM or MM (depending on LD type)
Power stability	< +/- 1 % (over 1 h)
Polarisation	>50:1 - >200:1
Temperature stabilization	Internal TEC

Temperature stabilization	Internal TEC
Height of optical axis	14.5 mm
Operation current	< 2 A (depends on model)
Modulation	DC - 200 kHz (with optional driver)
Laser head dimension	107 x 45 x 25 mm ³
Operation temperature	10 - 35°C
Laser class (EN 60825-1)	3B or 4

Notes: Laser baseplate must be attached to external heatsink.

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

MM fiber coupling

(50, 100, 200, 400 µm)

PEGASUS reserves the right to make changes to the product or information herein without notice. No liability is assumed as a result of their use or application.