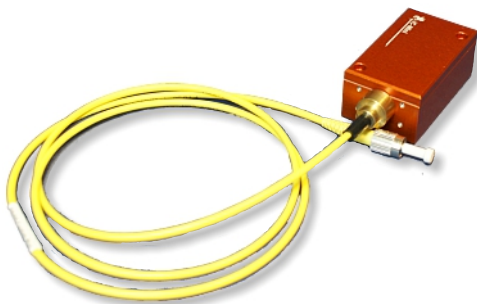




PEGASUS iC-MINI-F series

PL.iC-Mlxxx.yy.Fzz

Fiberpigtailed TEM₀₀ diode module:

- 405 nm - 808 nm
- SM / PM fiberpigtail
- Integrated TEC module
- Very compact industrial housing

Applications:



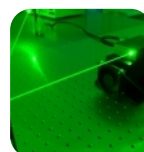
Particle analysis
Determination of particle size and shape in fluids.



Fluorescence excitation
Excitation of chromophores and fluorophores.



Flow cytometry
Counting and sorting of different cell types.



Optogenetics
Activate and deactivate invivo cellular behaviour.

PEGASUS iC-MINI-F series
PL.iC-MI.xxx.yy.Fzz

OPTICAL				
Wavelengths *	405 nm	450 nm	520 nm	638 nm
Output power *	10 mW	10 mW	10 mW	20 mW
Power stability	< +/- 1 % (over 8 h)			
Fiber type	SM or PM			
Fiber connector *	FC/PC			
Fiber length	1 m			
ELECTRICAL				
Operation current	< 1 A			
Integrated TEC	Yes			
NTC	10 kOhm at 25° C			
MECHANICAL				
Dimension laser head	60 x 35 x 25 mm³			
Weight laser head	90 g			
ENVIRONMENTAL				
Cooling	via baseplate (must be attached to external heat sink)			
Operating temperature	10 - 35° C			
Warm-up time	< 5 min			
Laser class (EN 60825-1)	3B	3B	3B	3B

Notes:

All specifications are given at 22°C constant environment temperature.

* Others on request

Ordering code

PL.iC-MI xxx yy Fzz

| Fiber type

| Output power

| Wavelength

PEGASUS follows a policy of continuous product improvement and reserves the right to change any specifications without notice.

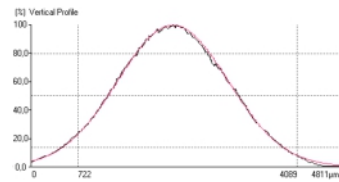
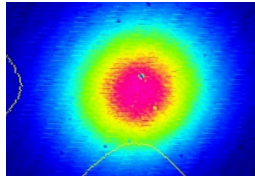
www.pegasus-lasersysteme.de Phone: +49(0)5407-3123-0 Fax: +49(0)5407-3123-6 Email: info@pegasus-lasersysteme.de

PEGASUS iC-MINI-F series

PL.iC-MI.xxx.yy.Fzz

Beam profile

The PEGASUS iC-MINI is equipped with a fixed singlemode fiber, to reach an ideal circular Gaussian beam with typical $M^2 < 1.1$. The beam parameters allow focusing of the beam $< 30 \mu\text{m}$. The standard fiber has a FC/PC connector for common fiber collimators. FC/APC is also possible on request.



Power stability

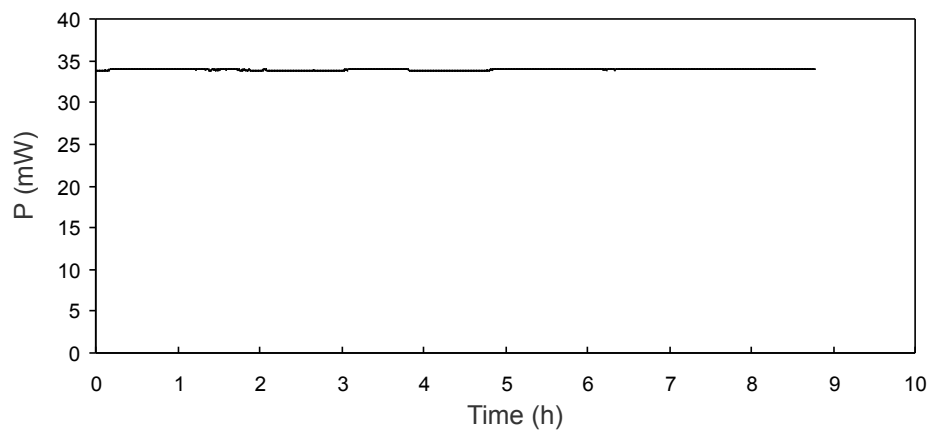
Special fixation technology ensures highly reliable and hands-free operation. The integrated TEC guarantees a constant output performance, even for singlemode fiber pigtailed module under changing environment temperatures.

Constant LD temperature of 25°C ensures a superior lifetime. The fiber coupled laser maintains a long-term output power stability typ. $< \pm 1\%$ over 8 hours.

An integrated photodiode allows monitoring of the laser diode power.

Typical output power stability over 8 h (after warm-up) *

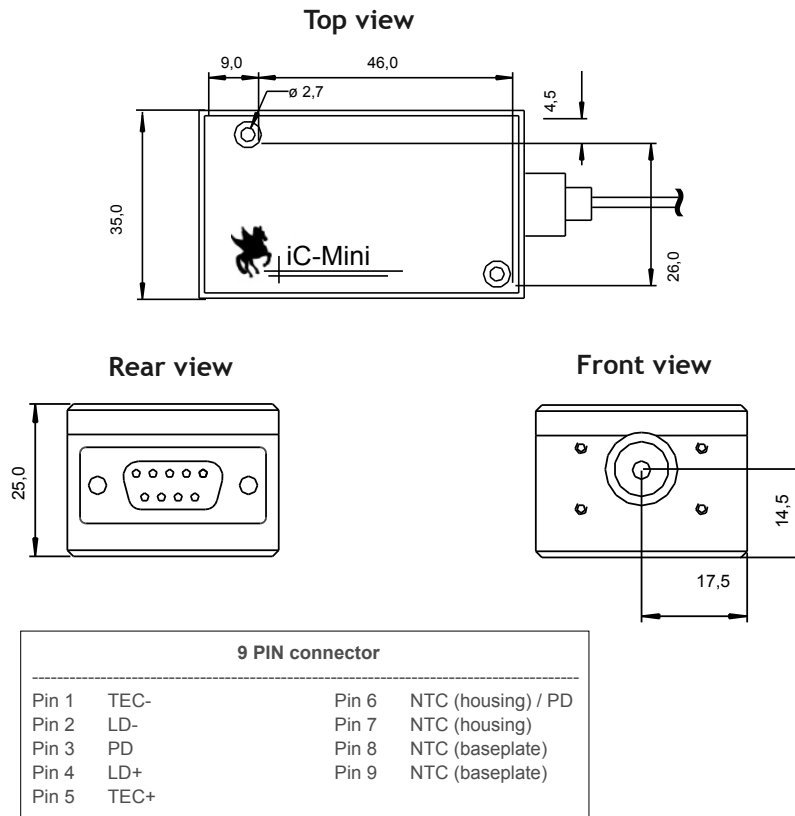
PL.iC-MI.520.25-SM - 520 nm / 25 mW



* Performed with PEGASUS benchtop driver PL.230V.-2A-1C1T

PEGASUS iC-MINI-F series PL.iC-MI.xxx.yy.Fzz

Mechanical dimensions



Adapted driver solutions

OEM version

PL.LD.12V-2A-1C1T
12 VDC power supply



Benchtop version

PL.LD.230-2A-1C1T
230 VAC power supply



PEGASUS follows a policy of continuous product improvement and reserves the right to change any specifications without notice.

All products comply the warranty of 1 year. (2 years on request.)



PEGASUS LASERSYSTEME GMBH
Marie-Curie Strasse 23
D-49134 Wallenhorst
Germany
Phone: +49(0)5407-3123-0 Fax: +49(0)5407-3123-6
Email: info@pegasus-lasersysteme.de

www.pegasus-lasersysteme.de

