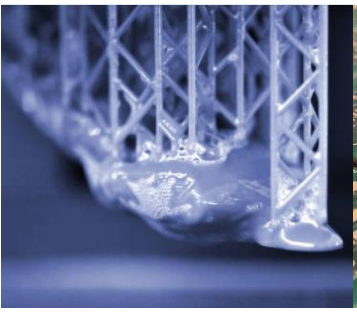
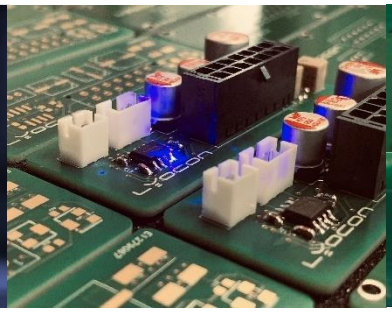
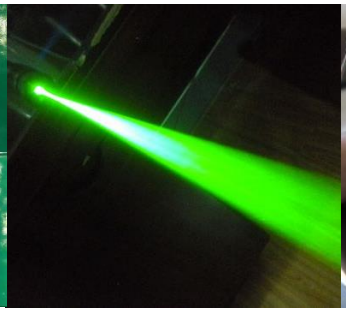
ZEPHYRUS PLATFORM ZPH.200

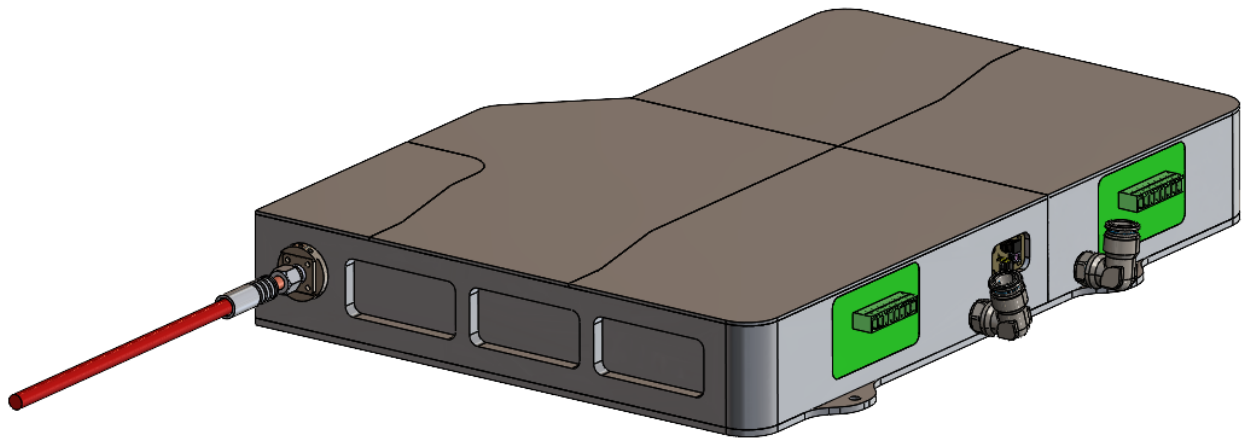
HIGH POWER **VISIBLE** DIODE LASER MODULE



		VIOLET	BLUE	GREEN	RED
Wavelength (nominal)	nm	405nm	450nm	520nm	635nm
Wavelength range	nm	400 / 410	440 / 460	510 / 535	630 / 645
Output power fiber coupled	W	40	200	60	80
Fiber core (min) (*)	µm	200	200	200	200
Fiber NA	-	0.22	0.22	0.22	0.22
Fiber connector	-	D80	D80	D80	D80
Operating current	A	< 1.3	< 3.8	< 2.2	< 1.6
Operating voltage (1 channel)	V	< 30	< 30	< 60	< 19
N° of channels		8	8	8	8
Operating temperature (**)	°C	+10 / +30	+15 / +35	+15 / +35	+15 / +30
Storage temperature (**)	°C	-20 / +60	-20 / +60	-20 / +60	-20 / +60
Extended operating temperature (optional) (**)	°C	-	-20 / +60	-20 / +60	-
		Multi-wavelength output possible			
Applications		Medical diagnostics Forensic Stereolithography Sensing	PCB soldering PCB cutting Stereolithography Projection Defense Plastic Welding Pumping	Medical Surgery Projection Defense Laser tag	Medical Endoscopy Physiotherapy Biostimulation Projection

Conditions unless otherwise stated: typical parameters at 25°C
* Optical fiber not included
** Not-condensing environment



LYOCON
Laser solutions & consulting

TECHNOLOGY PLATFORM

Zephyrus is our technology platform for high power visible laser modules, either fiber coupled and free space collimated. Designed to meet the highest standard of reliability, robustness and long lifetime, it can be easily customized to meet specific applications' needs. Each block performs a specific optical beam shaping function, thus making the module versatile to create tailored-made OEM solutions.

FEATURES AND BENEFITS

- Fiber coupled down to 200µm NA 0.22 (100µm NA 0.22 under development)
- Single or multiple wavelength design
- Temperature sensor, aiming beam
- Sealed, water cooled housing

ACCESSORIES

Available/customized accessories for the fiber coupled module are:

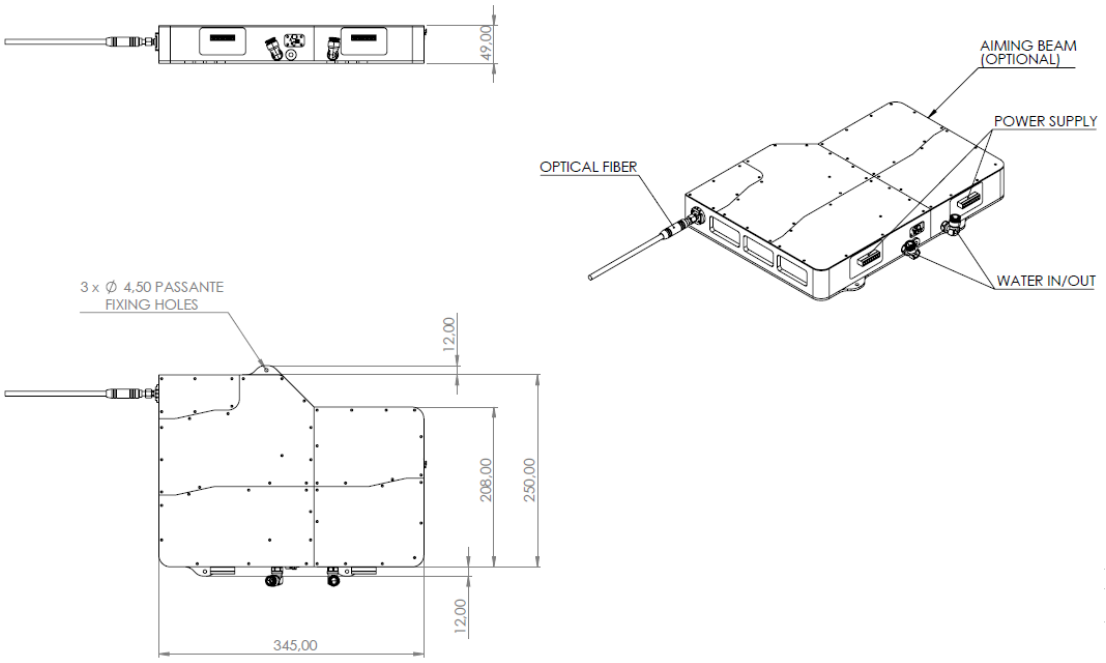
- Fixed or zoom focusing head
- Collimation optics for scan head interface
- Collimation optics for long distance application, fixed or zoom
- In-line pyrometer and/or camera module for focusing head
- Integrated system including current driver and I/O board

APPLICATION TIPS

Find our application tips and insights at the following links:

- https://www.lyocon.com/applications/blue-welding-soldering/
- https://onlinelibrary.wiley.com/doi/epdf/10.1002/phvs.202100036

MECHANICAL INTERFACE



Lyocon aims to continuous improvement of its products, so specifications may change without notice. Class 4 Laser Product.

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