

SSL&LU Description

monocrom excels in the design and realization of solid state lasers capable of satisfying our customer's most exigent requirements; and so it is recognized by the main laser companies worldwide.

monocrom can provide the lasers in three different formats: laser heads, plug & play laser units and OEM systems. The OEM systems can be composed by separate parts: laser modules, cooling system and highly efficient monocrom-made drivers.

SSL/LU GENERAL SPECIFICATIONS	
Wavelength	1064, 532 nm
Power	mW / 100 W
Energy	µJ / 20mJ
Frequency	Hz / 50kHz
Operation mode	CW
	QCW
	Q-Switch
Housing	Customized
Beam delivery	Customized
Accessories	Custom-made drivers and cooling systems

If we do not have it,
we can create it...

We are creating and manufacturing laser modules to our customers for more than fifteen years, thanks to the effort of a highly qualified, creative and motivated team. **Our courage, creativity and dynamism make us different.** We have demonstrated the applicability of new concepts in laser physics and technology, like our patented **clamped high power diode laser**, or our Q-Switched green SSL, capable of providing microseconds pulses and considered the most important development in Eye surgery from the last years. **Our present challenge is to design an ultra lightweight and resistant green laser device for a space mission to MARS.**

...and make it
come true

Our in-house facilities, including a wide machinery park together with Optics Labs allow us to keep all the development and manufacturing processes inside, at monocrom.

We design, manufacture and guarantee all our products. We also offer to our customers an After-Sales service in order to make sure that we meet our customers' expectations.

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monocrom ●
LASER DIODE DEVICES

● SSL/LU

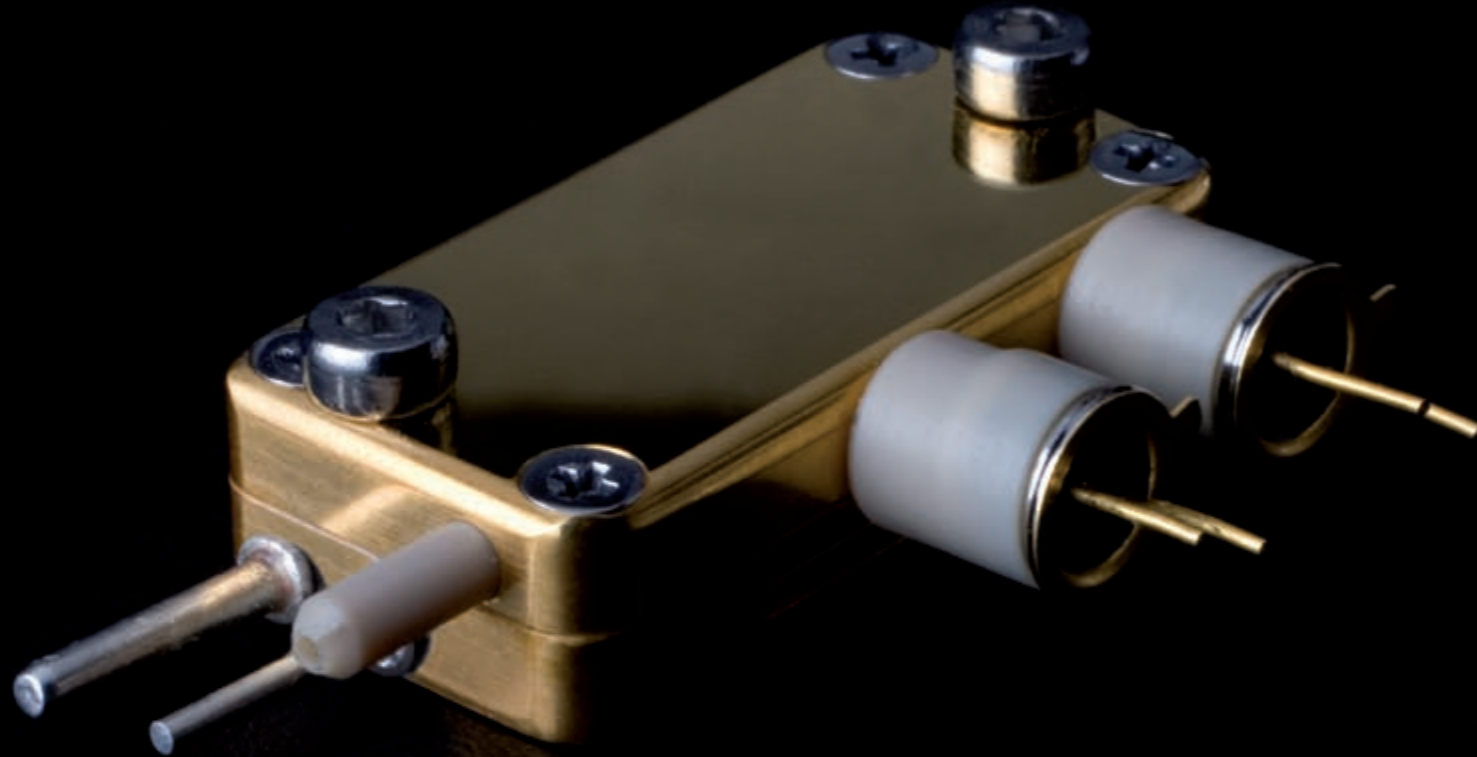
Solid State Lasers & Laser Units



monocrom ●
LASER DIODE DEVICES

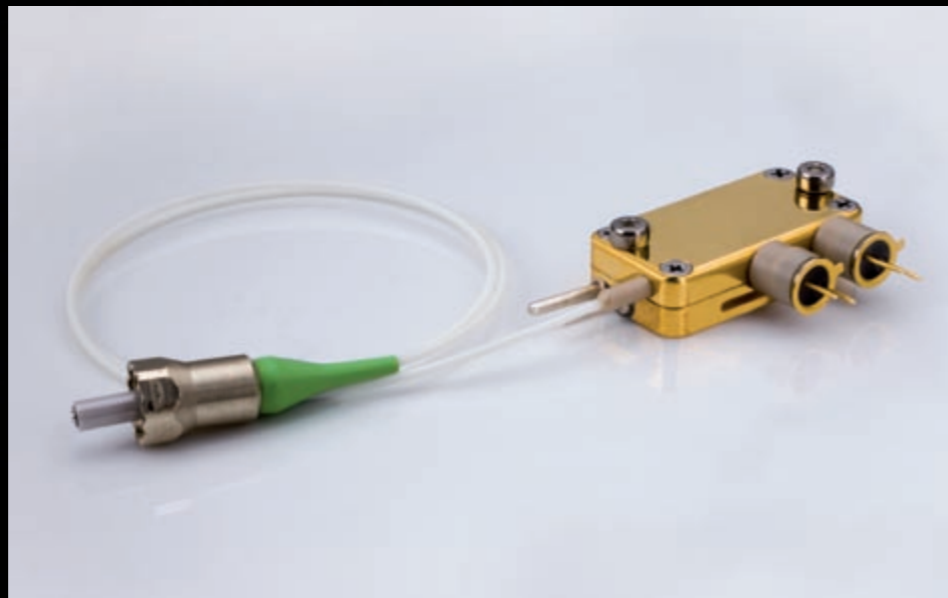
monocrom is presently working for the European Space Agency to develop a 532nm laser for the future ESA Exomars mission to Mars. This laser will be used for Raman-spectroscopy with the objective of investigating vestiges of past and evidence of present life in the Red Planet.

Solid State Lasers & Laser Units



EC532- μ

0,5W CW Space-compatible green micro-laser, specially created for Raman spectroscopy in a future Space Mission to Mars



MP532-3W

Specifications:

- CW and pulsed mode
- 3W
- 532 nm

Application:

Eye Surgery



LQ527-12

Specifications:

- Q-switch laser
- 1mJ per pulse
- 2 μ s-long pulse
- 527 nm

Application:

Eye retina regeneration



LDR-MP5323W

Specifications:

- up to 60A
- 2 TECs
- security shutter
- safety interlocks
- PID for optical feedback

Application:

custom-made highly efficient driver for laser diode puming

