

# LDM Description

monocrom develops laser diode modules both as an end product and as a component to be integrated into our customers' laser equipments. They cover a large range of applications namely Industry, Telecommunications, Metrology, Bio-medical, Aero-spatial & defence, Space, Auto-motion, Environmental protection, Art restoration, Entertainment, Research, Robotics and Automatization, Nanotechnology...

LDM BASIC MODULES SELECTION RANGE	
Wavelength	From 405 to 1064 nm.
Optical power	From < mW up to 3W.
Operation modes	CW or modulated
Housings	OEM (O), focusable (T), modulable (M), FC port (C), water proof (W), Thermal stabilized (S), TEC (R)
Optics	High NA (A10), Low divergence (A15), Line tracers (LXX), Fiber output (C)

ORDERING LDM STANDARD PART NUMBER CODE		MC-WW PP H-A LLL
MC: Standard basic LDM	WW: Wavelength	PP: Optical power
H: Housing	A: Clear aperture	LLL: Optics

#### Also available on request:

- Higher power > 5W
- Specific wavelengths
- Customised housing

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



# Laser Diode Modules



**monocrom**  
LASER DIODE DEVICES

monocrom produces visible and near infrared Laser Diode Modules since 1993. Output powers are in the range of 1mW to 1W, and typical wavelengths from 405 to 1060 nm, making possible to cover a large range of applications. The standard housing types include **collimated, focusable, modulable, fibre connectorized, water proof** and thermo-electrically cooled. In addition, we design and manufacture special modules adapted to OEM customer needs, both in small and large volume series.

More than 15 years of experience creating, making and adapting LDM for our customers.

# Laser Diode Module



## “O” COLLIMATED OR PRE-FOCUSED TYPE

<b>Wavelength:</b>	405, 635, 640, 650, 670, 780, 805, 850, 905, 1064 nm.
<b>Optical power:</b>	From < mW up to 25 mw.
<b>Operation mode:</b>	CW.
<b>Housing:</b>	Hard anodized Al Ø 11 x 50 mm.
<b>Optics:</b>	A10, H18, A15, LLL(Line generation lens).

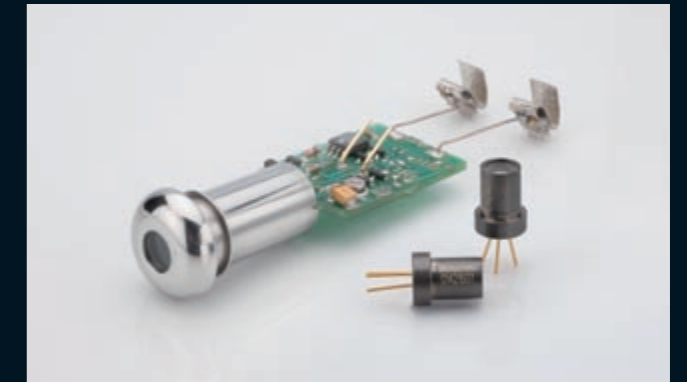


## “M” MODULABLE & FOCUSABLE TYPE

<b>Wavelength:</b>	405, 635, 640, 650, 670, 780, 805, 830, 850, 905, 980, 1064 nm.
<b>Optical power:</b>	From < mW up to 80 mw.
<b>Operation mode:</b>	CW & Modulable
<b>Housing:</b>	Black anodized Al Ø14x100 mm.
<b>Optics:</b>	A10, A15, S35, LLL.

## OEM LDM

Continuously creating and adapting our products to meet our customers needs



## “T” FOCUSABLE TYPE

<b>Wavelength:</b>	405, 635, 640, 650, 670, 780, 830, 850, 905, 980, 1064 nm.
<b>Optical power:</b>	From < mW up to 70 mw.
<b>Operation mode:</b>	CW.
<b>Housing:</b>	Black anodized Al Ø 14 x 80 mm.
<b>Optics:</b>	A10, A15, S35, LLL.



## “R” TEC FIBRE OUTPUT TYPE

<b>Wavelength:</b>	532, 635, 670, 780, 808, 980 nm.
<b>Optical power:</b>	From mW up to 3 w.
<b>Operation mode:</b>	CW.
<b>Housing:</b>	Hard anodized Al 45 x 74 x 160 mm.
<b>Optics:</b>	Collimator TA10 after fibers on 50, 125, 200...



## “S” THERMAL STABILISED TYPE

<b>Wavelength:</b>	405, 635, 640, 650, 670, 780, 830, 850, 980, 1064 nm.
<b>Optical power:</b>	From < mW up to 100 mw.
<b>Operation mode:</b>	CW or Modulable
<b>Housing:</b>	Black anodizing Al 63 x 32 x 115 mm
<b>Optics:</b>	A10, A15, S35, LLL or fiber output ( SM, MM or PMF)



## “C” FC FIBER CONNECTOR TYPE

<b>Wavelength:</b>	635, 650, 640, 670, 780, 830, 850, 980, 1064 m.
<b>Optical power:</b>	From < mW up to 190 mw (at the output of the FC port)
<b>Operation mode:</b>	CW.
<b>Housing:</b>	Stainless steel / chromed brass, Ø 14 x 45 x 24 mm.
<b>Optics:</b>	Patch-cords in 4.5, & 62.5µ fiber core FC-PC