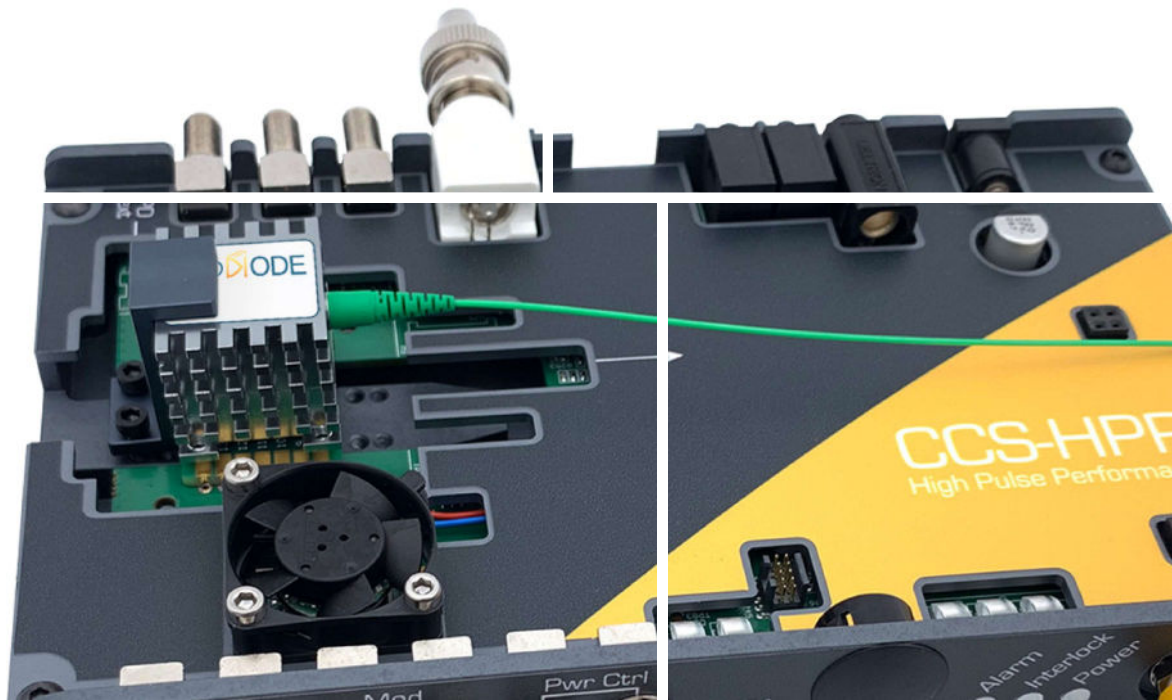


# 520 nm Laser diodes & Turn-key solutions



Aero  DIODE

# 520 nm laser diode

## Choose your own fiber-coupled laser diode + turn-key driver solution

Standard singlemode laser diodes at 520 nm (with TEC) are offered as stock items or combined with a CW or pulsed turn-key laser diode driver. The laser diode module has a 14-pin DIL form-factor (self cooled «Hedgehog» packaging compatible with butterfly laser diode drivers).



### 1st

Choose your laser diode module :

Diode model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber (or eq.)	Emission Bandwidth (typ)	Package (mm)
	20 mW	30 mW / 75 mW					
1	20 mW	30 mW	Single mode	520 ± 10 nm	S405-XP PM460-XP (if PM OPTION)	~1 nm	14 pin DIL - Compatible with butterfly laser diode drivers
2	50 mW	75 mW					

### 3rd

Choose your product form factor : OPEN-FRAME or INTEGRATED

## OPEN-FRAME VERSIONS :

CCS-HPP



### 2nd

Choose your Driver

520 nm Laser Diode version

Output Power - CW / Pulse (Typical values)

Laser diode T° / T° stability

CW light modulation bandwidth

Current modulation of CW light

BFM (Back Facet Monitor) / BFM driver with variable gain

Pulse duration (Ext. trigger)

Pulse duration (Internal pulse generator)

Typ rise/fall time ;  
Min optical pulse duration (14 pin DIL package diodes)

Internal rep rate adjustment

Temporal Jitter

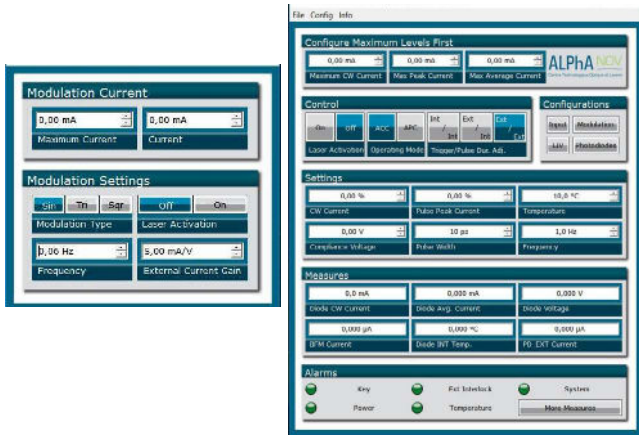
Interface/GUI/libraries

Singlemode 14 pin DIL compatible Butterfly laser diode driver

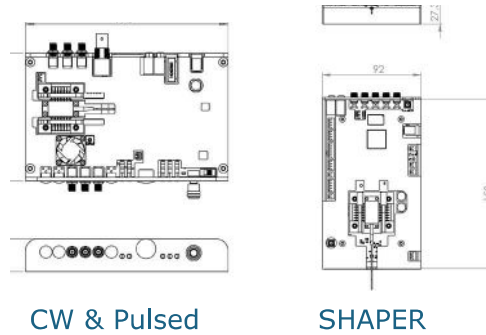
## INTEGRATED VE

# Technical Specifications

## GUI (examples)

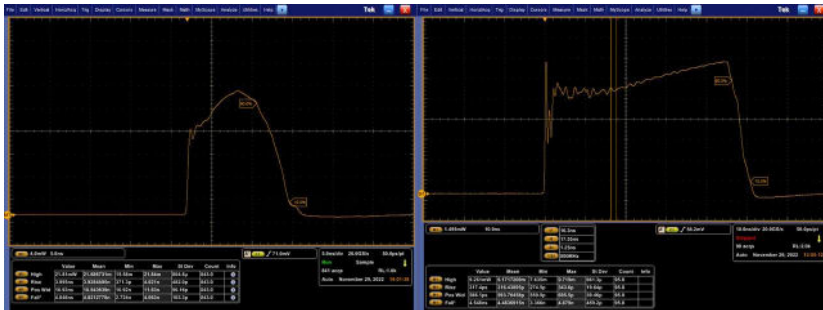


## Mechanical (examples) :



## OPTIONS (see all prices on the website page) :

- \* PM fiber output
- \* Optical collimator (3 mm or 8 mm version)



➤ Example of 10 ns and 100 ns pulse shapes obtained with CCS-HPP driver



➤ All AeroDIODE products can be connected together (daisy chain) to a unique GUI interface which consolidates all modules functions

## Classification :

Name	520LD :
Diode type	0: Laser diode only 1: 20 mW hedgehog singlemode (14 pin DIL with TEC) 2: 50 mW hedgehog singlemode 14 pin DIL with TEC
Driver Electronics :	0: No driver (laser diode alone) TDLAS : Low noise driver with high modulation bandwidth LN : Ultra-Low noise driver HPP : Pulsed and CW Driver - for singlemode laser diodes) SHAPER : User design temporal pulse shape
Form Factor	0: No driver (laser diode alone) 1: Open frame driver version 2: Integrated driver version

## Ordering information :

