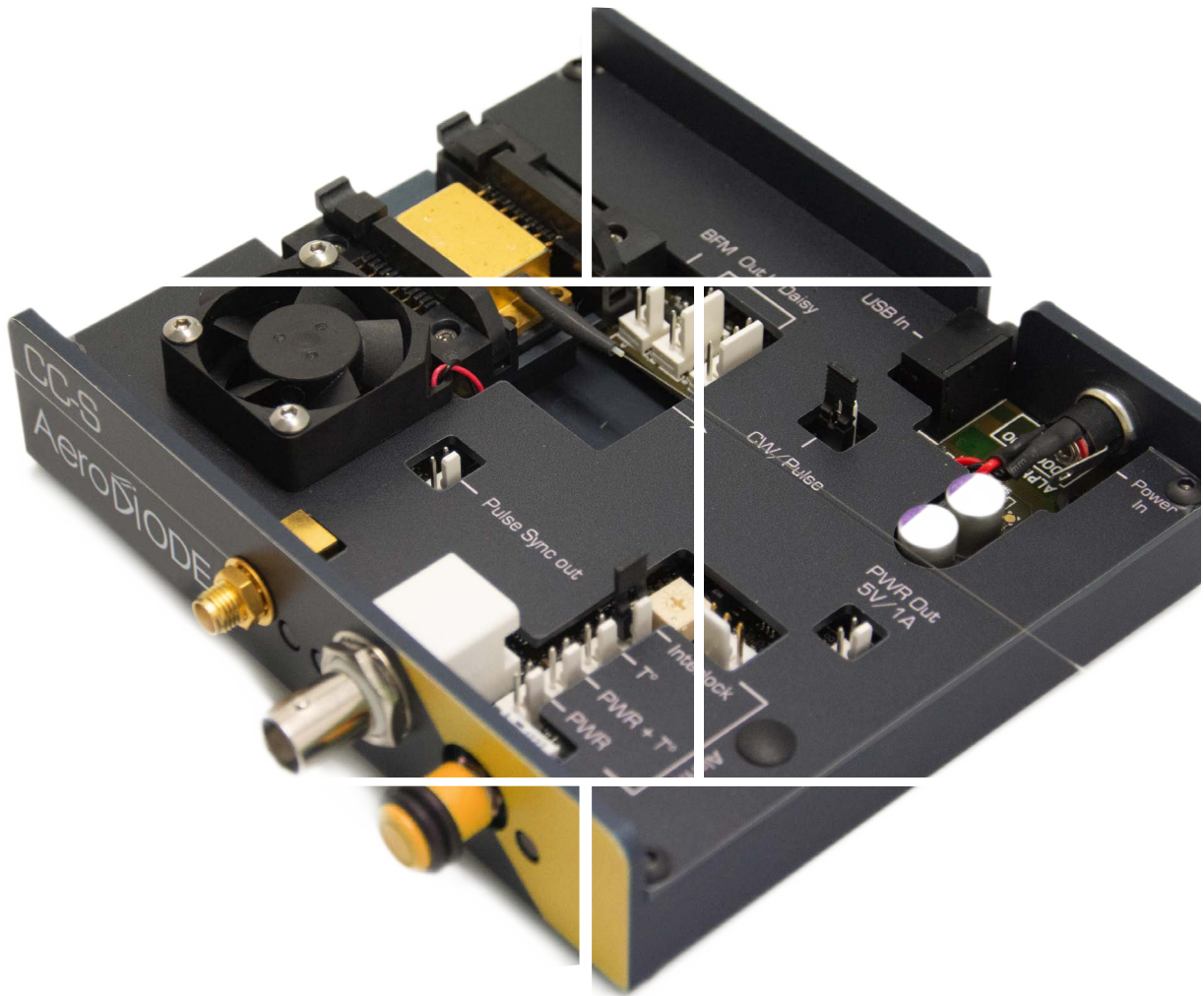# 808 nm Laser diode & Turn-key solutions
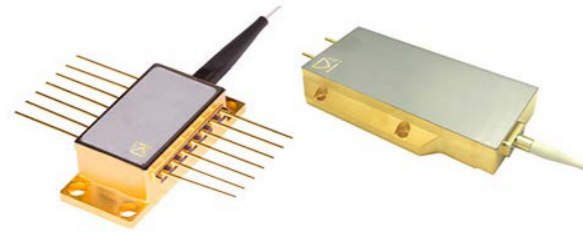

![AeroDIODE]

808 nm laser diode

Choose your own **fiber-coupled laser diode** + turn-key Driver solution

Standard singlemode or multimode laser diodes are sourced from the most reliable manufacturers and offered as stock items or associated with a CW or pulsed turn-key laser diode driver.
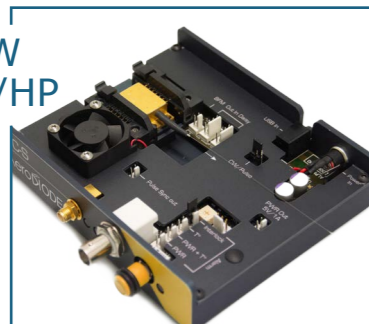
1st — Choose your laser diode :

Diode type	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber	Emission Bandwidth (typ)	Package (mm)
1	250 mW	600 mW	Butterfly single mode	808 ±3nm	PM 780	~1 nm	14 pin - type 1
2	10 W	10 W	Multimode single emitter		Multimode 200 µm NA=0.22	~3 nm	30.9*17*7.7
3	50 W	50 W	Multimode multi emitter	808 ±5nm		~3.5 nm	66.5*36*20
4	100 W	100 W				~4 nm	155*45*20

2nd — Choose your Driver performance :

	808 nm Laser Diode version	CW Driver (for singlemode diodes : «CCS-CW» is the open driver and CCSI-CW is the integrated version)	Pulse & CW Driver (from 1 ns to CW : «CCS» is the open driver and CCSI is the integrated version)	User design pulse shape Driver («SHAPER» open driver from 0.5 ns to 8 µs]	Multimode diode Driver (High power driver for 10 to 150 W diodes : CCM is the open version, CCMI is the integrated version)
Output Power - CW / Pulse (Typical values)	1- single mode	250 mW / No	250 mW / 600 mW	No / 600 mW	Not compatible
	2- Multimode 10W	Not compatible			10 W / 10 W
	3-Multimode 50W				50 W / 50 W
	4- Multimode 100W				100 W / 100 W
User design Pulse shape	Any	No	No (On -off only)	Yes	No
Laser diode T°		15 - 50 °C			15 - 40 °C
Pulse duration (Ext trigger)		CW only	0.5 ns - CW	0.5 ns - 8 µs	10 µs - CW
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns		No
Typ rise/fall time ; Min Pulse duration			3 (ns/A) ; 1.5 ns	< 1ns/A ; 1.5 ns	few µsec
Internal rep rate adjustment			1 Hz - 4 MHZ (250 MHz optional)	1 Hz - 20 MHz	No
Temporal Jitter			< 25 ps	< 2 ns	
Adj. CW offset (pulse regime)		No			Yes (external mode)
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python			

3rd — Choose your product form factor : OPEN-FRAME or INTEGRATED
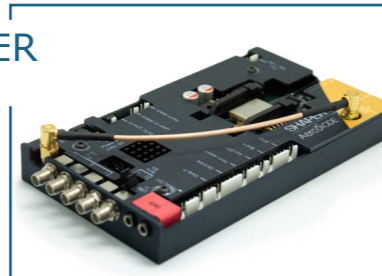
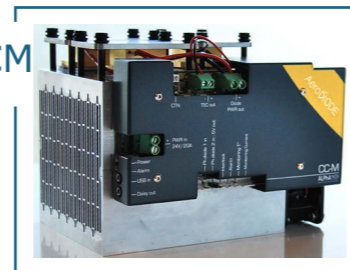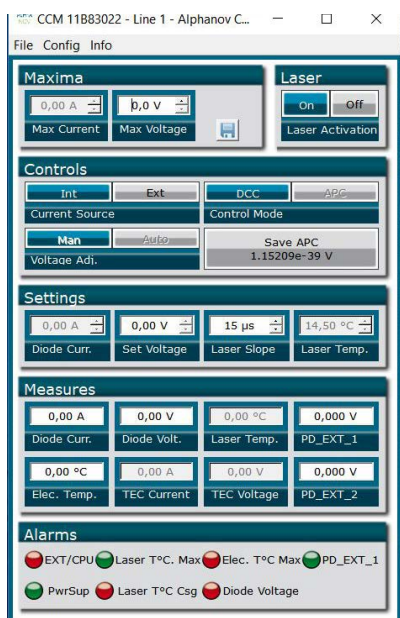## OPEN-FRAME VERSIONS :

CCS-CW CCS-std/HP
➤ Open-frame driver for CW, std and HP electronics Boards for single mode diodes

SHAPER
➤ Open-frame driver for «Shaper» electronic Board and single mode diodes

CCM
➤ «CCM» Open-frame driver for Multimode diodes

INTEGRATED VERSIONS :

CCSI-CW/ std/HP/HPP
➤ Integrated version for CW, std and HP electronics Boards

SHAPER-I
➤ Integrated version for Shaper electronics Board

CCMI
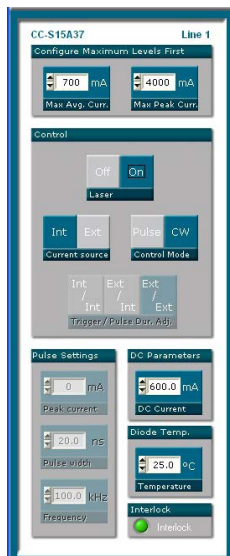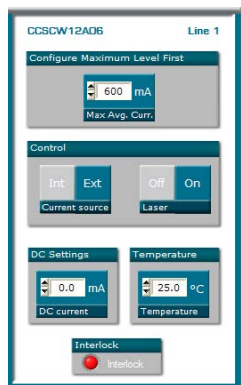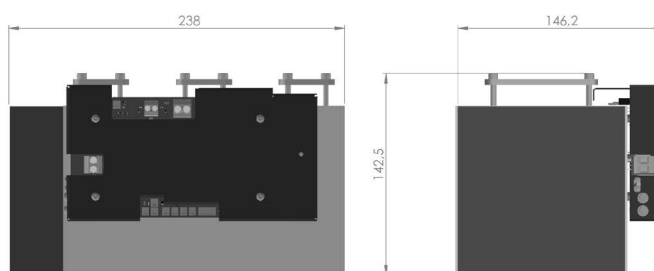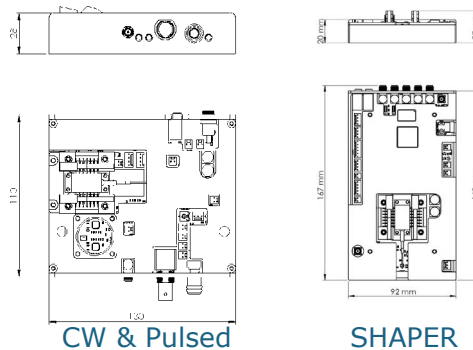➤ «CCMI» Open driver for Multi-mode diodes

AeroDIODE

Technical Specifications

GUI (examples)

Mechanical (examples) :

CW & Pulsed

SHAPER

CCM (for Multimode diodes)
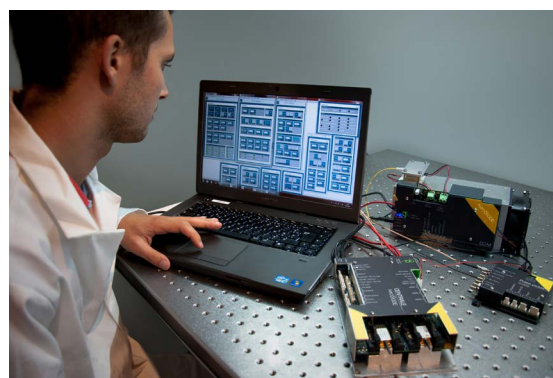
Classification :

Name	808LD :
Diode type	1: 250 mW Butterfly singlemode 2: 10 W multimode 3: 50 W multimode 4: 100 W multimùode
Driver Electronics :	1: CCS-CW (open driver for CW only) 2: CCS-std (Standard Pulse and CW Driver) 3 : SHAPER (pulse only with user design pulse shape) 4 : CCM (for multimode diodes)
Form Factor	1: Open 2: Integrated

Ordering information :

808LD - [_] - [_] - [_]

Diode type
1
2
3
4

Driver type
1
2
3
4

Form Factor
1
2

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