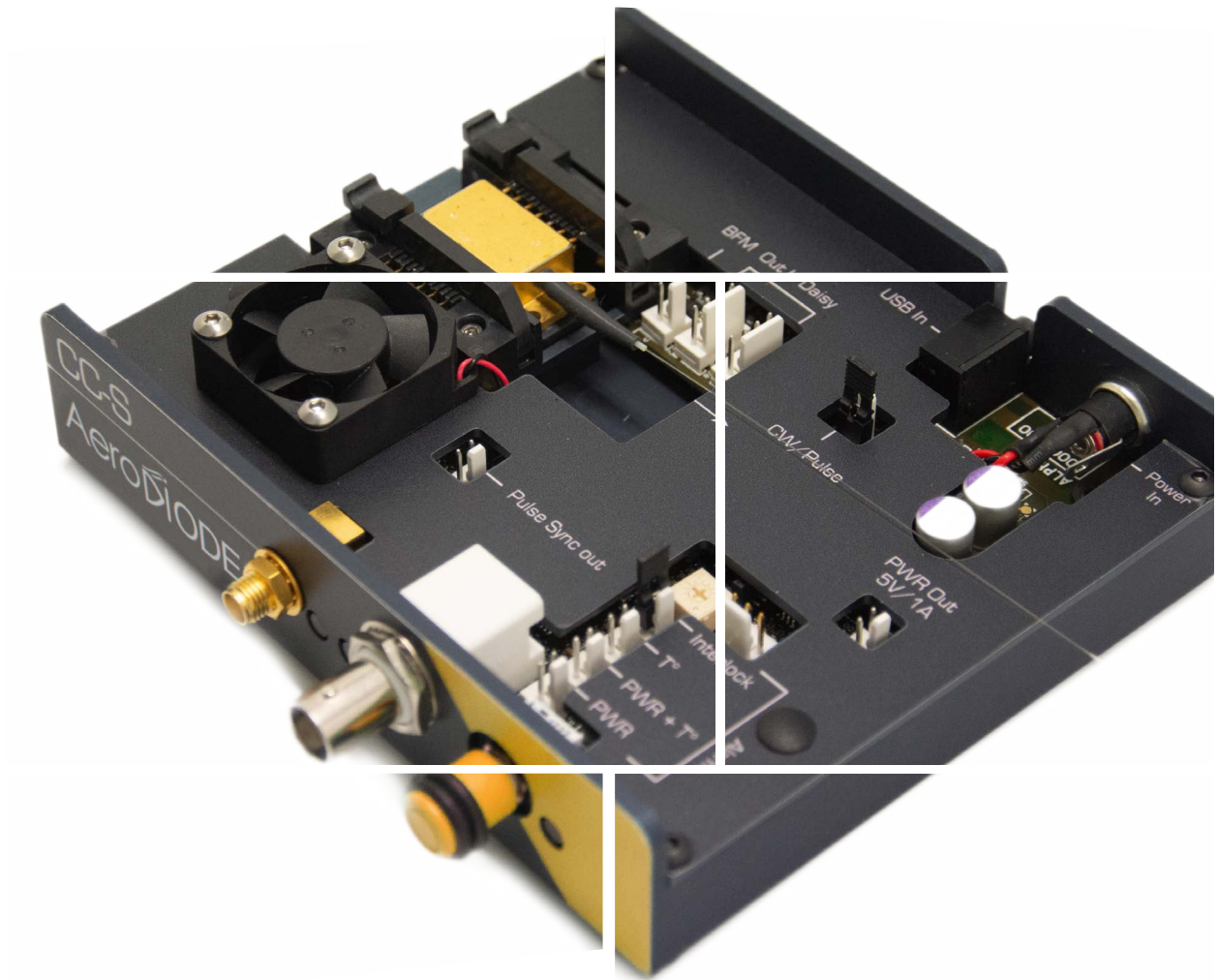


850 nm Laser diode & Turn-key solutions

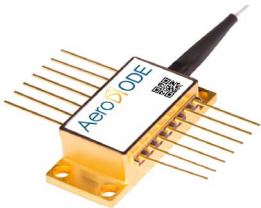


AeroDiODE

850 nm laser diode

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

Standard singlemode laser diodes are 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	Emisison Band-width (typ)	Package (mm)
1	40 mW	60 mW	Single frequency DFB	852±1.5nm	HI780 PM780	~1 nm	14 pin Butterfly- type 1
2	250 mW	375 mW	Fabry-Pérot	852±3nm			

3rd

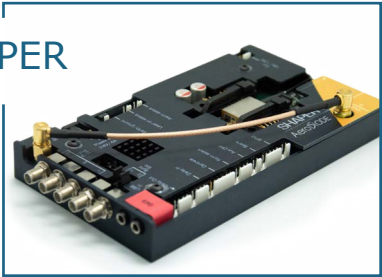
Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS :



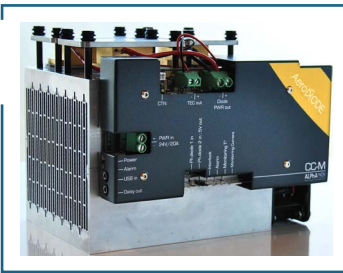
➤ Open-frame driver for CW, std and HP electronics Boards for single mode diodes

SHAPER



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

CCM



➤ «CCM» Open-frame driver for Multimode diodes (10-100W)

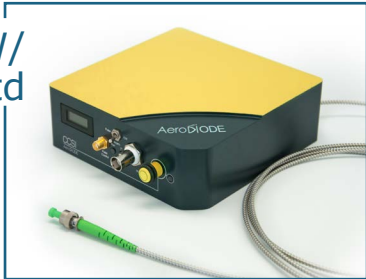
2nd Choose your Driver performance :

LASER DRIVER VERSION :

	850 nm Laser Diode Model	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 40 mW	40 mW / No	40 mW / 60 mW	No / 60 mW	Not compatible
	2- Single mode 250 mW	250 mW / No	250 mW / 375 mW	No / 375 mW	Not compatible
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)			Optional	No	Yes [external mode]
Interface/GUI/libraries		USB - Windows 7 / 10 - DLLs - Hexa/Linux - Labview - Python			

INTEGRATED VERSIONS :

CCSI-CW/ std



➤ Integrated version for CW, std and HP electronics Boards

SHAPER-I



➤ Integrated version for Shaper electronics Board

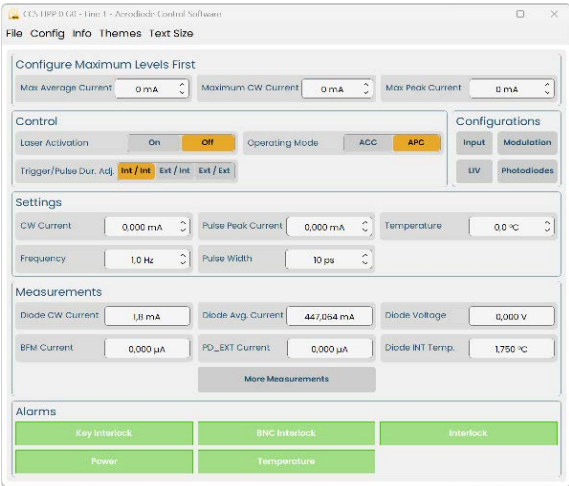
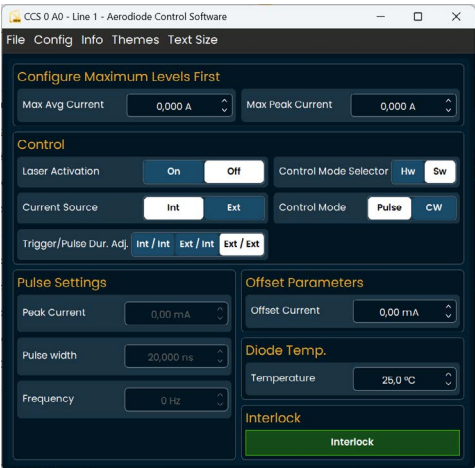
CCMI



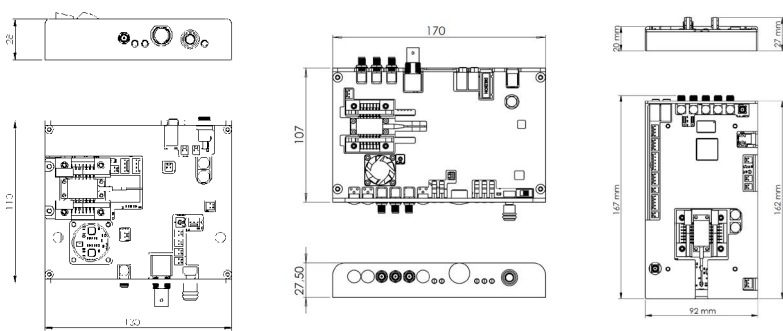
➤ «CCMI» Open driver for Multi-mode diodes (10-100W)

Technical Specifications

GUI examples



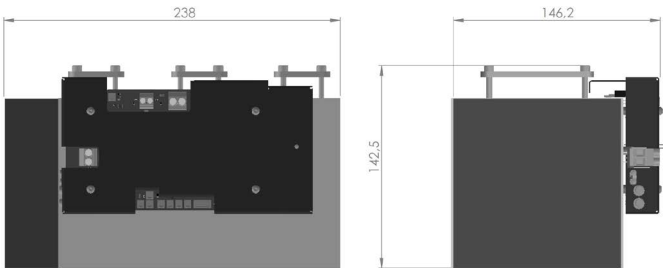
Mechanical examples



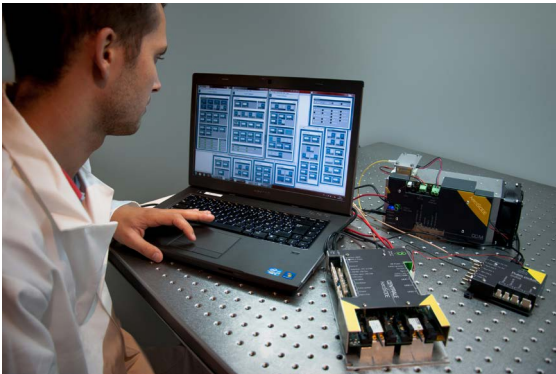
CW & Pulsed

HPP

Shaper



CCM (for Multimode diodes)



Classification :

Name	850LD :
Diode type	1: 40 mW Butterfly singlemode 2: 10 W Butterfly singlemode
Driver Electronics :	0: No driver (Laser diode only) 1: CW (CW laser emission driver) TDLAS: High end CW driver for high power and low noise 2: Pulse & CW (Pulse and CW driver) 3 SHAPER (User design temporal pulse shape driver) 4: High Power (for multimode diodes model 3 to 6)
Form Factor	0: No driver (Laser diode only) 1: Open frame 2: Integrated

Ordering information :

