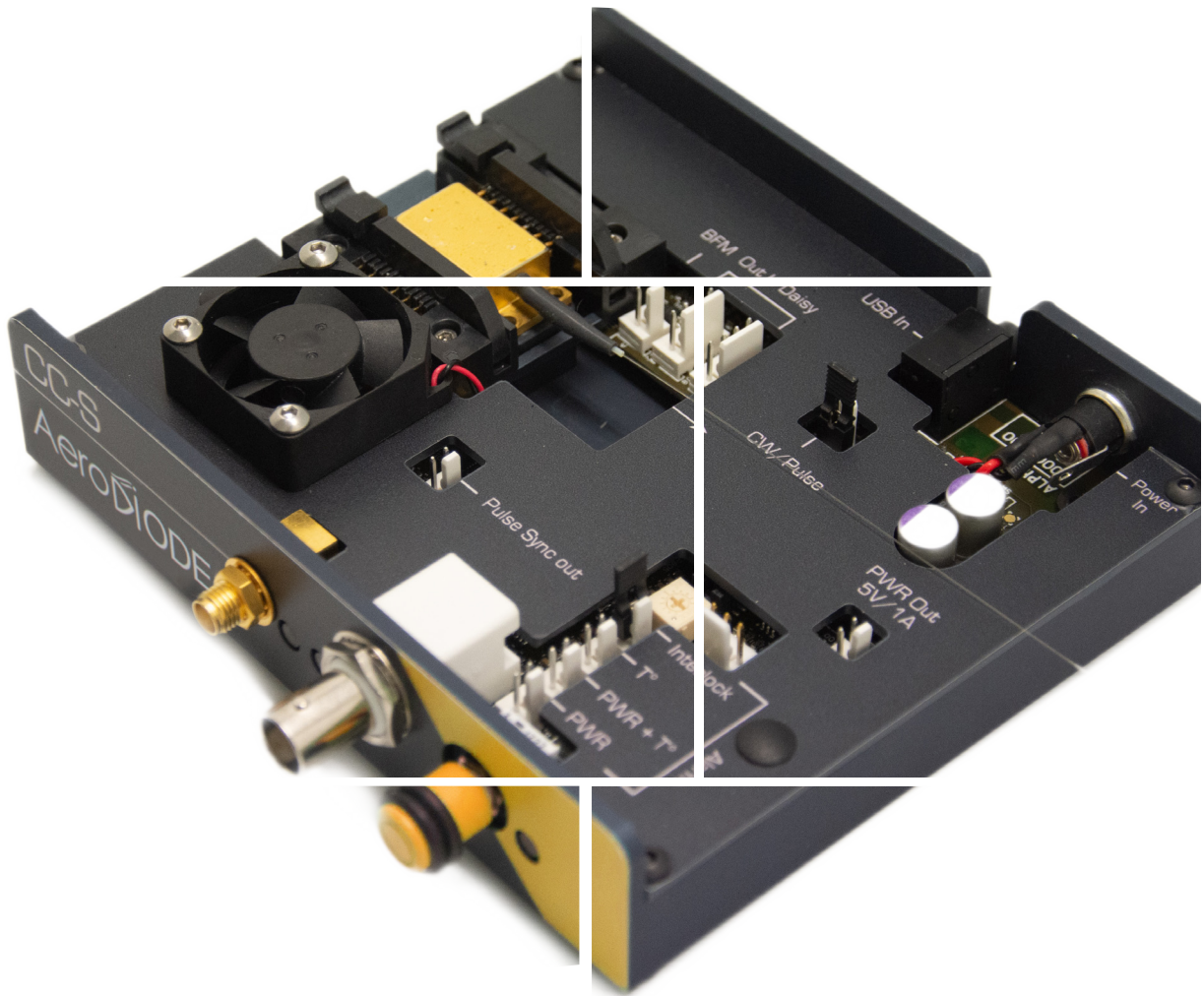


# Laser diodes & turn-key solutions from 1270 to 1650 nm

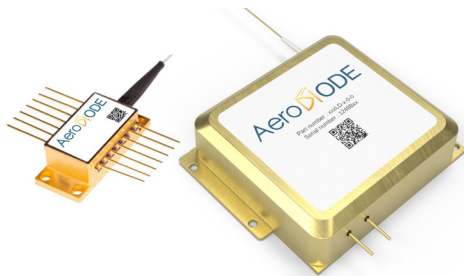


Aero*Di*ODE

# Choose your own fiber-coupled DFB, Fabry-Perrot or multimode laser diode + turn-key driver solution from 1270 to 1650 nm

Standard singlemode DFB or Bragg laser diodes from 10 to 400 mW are offered as stock items or associated with a CW or nanosecond pulsed turn-key driver. Multimode solutions up to 30 W are also offered coupled in a 105µm-core fiber.

## 1st Choose your laser diode :

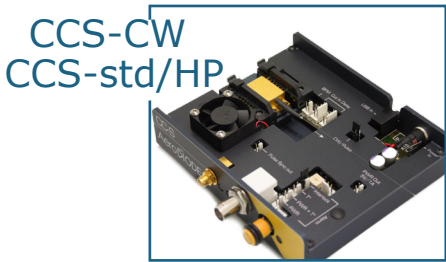


Diode type*	Power (CW)		Technology	Wavelength (nm)	Fiber	Emisison Bandwidth (typ)	Form-factor
1	10 mW	20 mW	Single mode DFB	Many wavelength available between 1270 and 1650 nm (see the table on website page for exact power vs wavelengths)	SMF or PM versions available	~100 kHz **	14 pin Butterfly-type-1 (other pin configuration available on demand)
2	40 mW	80 mW					
3	100 mW*	200 mW					
4	400 mW*	600 mW	Single mode Fabry-Perrot w. Bragg	Several models between 1420 and 1500 nm (only)	PM Only	~0.2 nm	14 pin Butterfly-type 1
5	30 W*	30 W	Multimode multi-emitters	1470 nm (for example)	105 µm core, NA=0.22	~ 10 nm	80*80*25 mm3

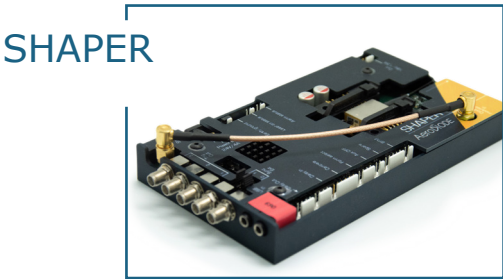
\* Not all laser diode types and versions are available at each wavelength - See the products webpages by wavelength for detailed information.  
\*\* 1550 nm models are also available with special narrow linewidth versions

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

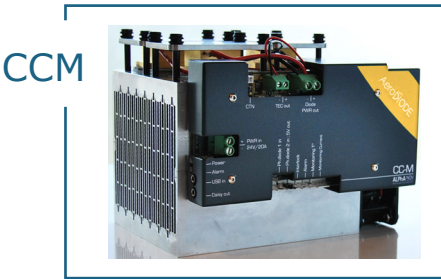
### OPEN-FRAME VERSIONS :



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



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



➤ Open-frame driver for multi-mode diodes (30 W here) with integrated thermal regulation and air cooling

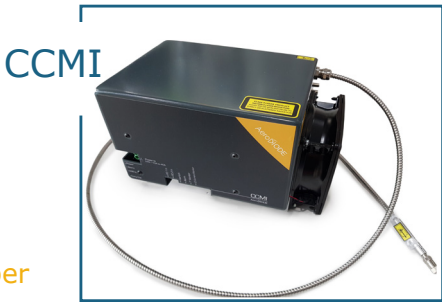
### INTEGRATED VERSIONS :



➤ Integrated version for CW, std and HP electronics boards



➤ Integrated version for Shaper electronics board



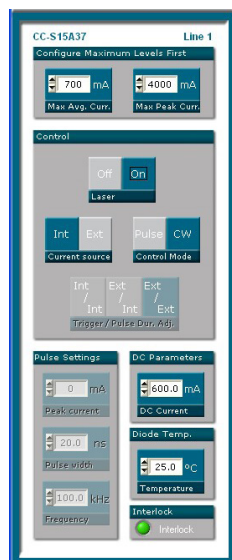
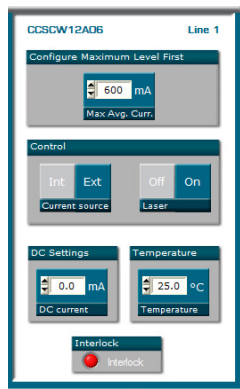
➤ Integrated version for Shaper electronics board

## 2nd

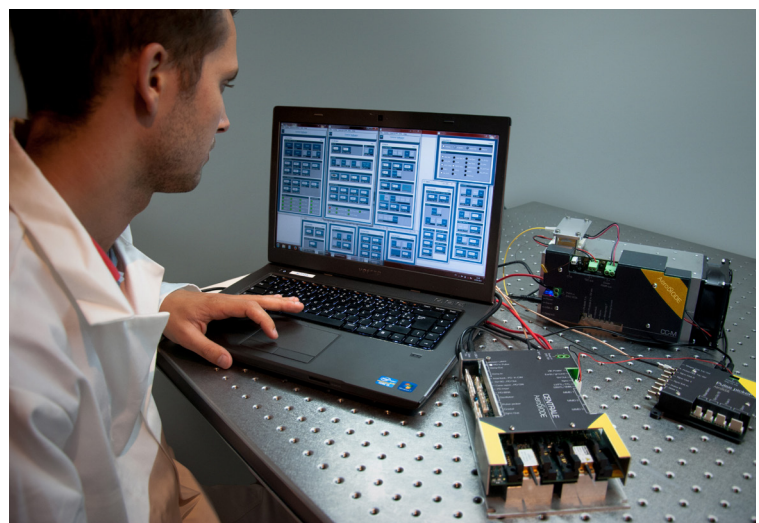
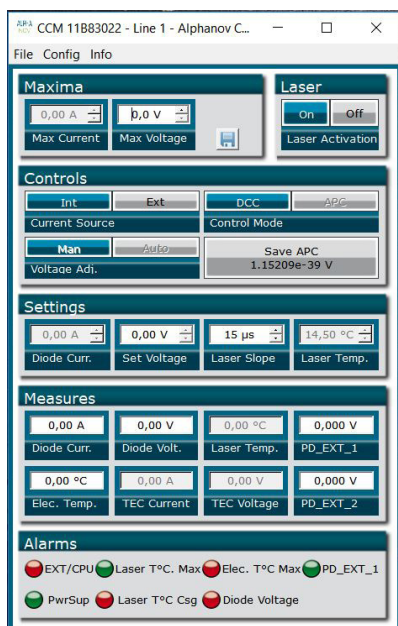
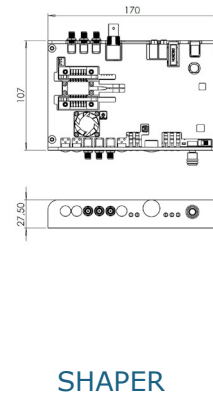
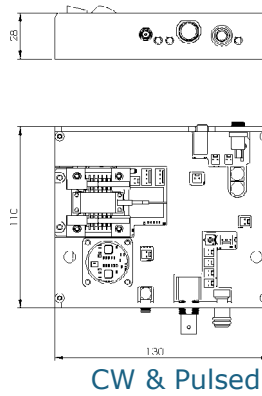
Choose your Driver performance :

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 (From 0.5 ns to 8 µs : «SHAPER» is the open driver and Shaper-i is the integrated version)	High power driver for multimode diodes (30W) : «CCM» is the open frame driver and «CCMI» the turn-key version
Output Power - CW / Pulse (Typical values)	1- 10 mW	10 mW / No	10 mW / 15 mW	No / 15 mW	No
	2- 40 mW	40 mW / No	40 mW / 60 mW	No / 60mW	
	3- 100 mW	100 mW / No	100 mW / 150 mW	No / 150 mW	
	4- 400 mW	400 mW / No	400 mW / 600 mW	No / 400 mW	
	5-30 W	No			30 W / 30 W
User design Pulse shape	Any	No	No (On-Off only)	Yes (embedded AWG)	Yes (external analog only)
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			< 8 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			

## GUI (examples)



## Mechanical (examples) :



## Classification :

Name	1550 LD :
Wavelength	Choose any wavelength between 1270 and 1650 nm (models 1-3) or between 1420 and 1500 nm (model 4) (note : only the 1310, 1550 and 1650 nm DFBs are available with 100 mW CW power)
Diode type*	10 mW DFB Butterfly singlemode 40 mW DFB Butterfly singlemode 100 mW DFB singlemode* 400 mW Bragg singlemode* 30 W Multimode*
Driver Electronics :	0: Laser diode alone 1: CCS-CW (open driver for CW only) 2: CCS-std (Pulse and CW Driver) 3: SHAPER (pulse only with user design pulse shape) 4: CCM (High power version for multimode diodes)
Form Factor	0: Laser diode alone 1: Open frame 2: Integrated
SMF or PM	1: SM Fiber 2: PM Fiber

## Ordering information :

Wavelength (any value between 1270 and 1650 nm - see the special webpages)

1 : SMF  
2 : PMF

[ ] LD - [ ] - [ ] - [ ] - [ ]

Diode model\*

1\*  
2\*  
3\*  
4\*  
5\*

Driver type

0  
1  
2  
3

Form Factor

0  
1  
2

Example : 1550LD-3-2-1-2 =  
1550 nm 100 mW laser diode with a PM Panda fiber output, mounted on a «pulsed On/Off & CW» open frame driver

\* : See the product webpage tables for exact laser diode model codification which is specific for each wavelength