Laser diodes & Turn-key solutions from 1270 to 1650 nm
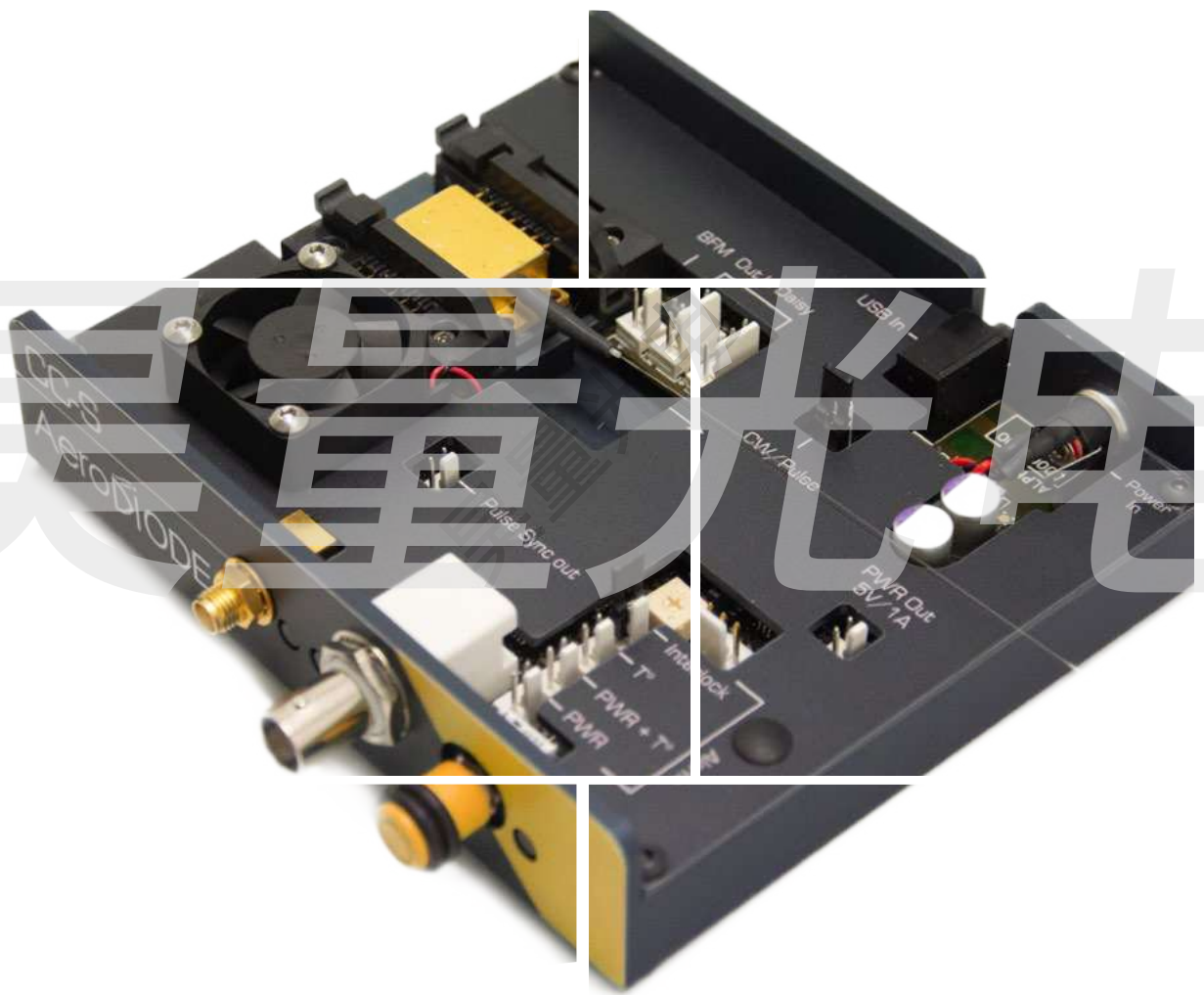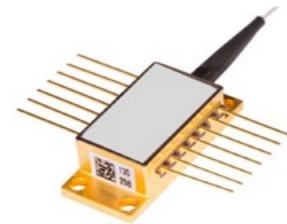
Choose your own **fiber-coupled DFB laser diode** + turn-key driver solution from **1270 to 1650 nm**

Standard singlemode DFB or Bragg laser diodes from 10 to 400 mW are sourced from the most reliable manufacturers and offered as stock items or associated with a CW or nanosecond pulsed turn-key driver.

1st Choose your laser diode :

Diode type	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber	Emisison Bandwidth (typ)	Package (mm)
1	10 mW	30 mW	Single mode DFB	Any wavelength between 1270 and 1650 nm	SMF or PM versions available	< 0.3 nm	14 pin Butterfly-type 1 pinning (type-2 available - DFB models only)
2	40 mW	120 mW					
3	100 mW	300 mW					
4	400 mW	1000 mW	Single mode + Bragg grating	Any wavelength between 1420 and 1500 nm		< 2 nm	

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

2nd Choose your Driver performance :

LASER DIODE VERSION :		LASER DRIVER 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)
Output Power - CW / Pulse (Typical values)	1- 10 mW	10 mW / No	10 mW / 30 mW	No / 100 mW
	2- 40 mW	40 mW / No	40 mW / 120mW	No / 300 mW
	3- 100 mW	100 mW / No	100 mW / 300 mW	No / 500 mW
	4- 400 mW	400 mW / No	400 mW / 1000 mW	No / 400 mW
User design Pulse shape		No	No (On-Off only)	Yes
Laser diode T°		15 - 50 C		
Pulse duration (Ext trigger)		0.5 ns - CW		0.5 ns - 8 µs
Pulse duration (Internal pulse generator)		0.5 ns - 500 ns		
Typ rise/fall time ; Min pulse duration	Any	CW only	3 (ns/A) ; 1.5 ns	< 1ns/A ; 1.5 ns
Internal rep rate adjustment		1 Hz - 4 MHz (250 MHz optional)		1 Hz - 20 MHz
Temporal Jitter		< 8 ps		< 2 ns
Adj. CW offset (pulse regime)		Optional		No
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python		

OPEN-FRAME VERSIONS :

CCS-CW CCS-std/HP

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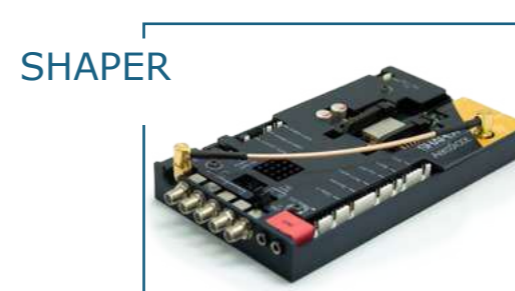
SHAPER

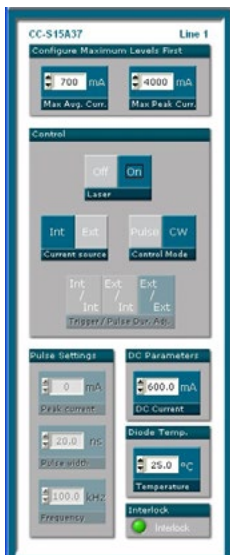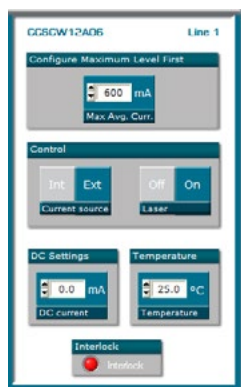➢ Open-frame driver for «Shaper» electronic board and single mode diodes

INTEGRATED VERSIONS :

CCSI-CW/ std/HP

➢ Integrated version for CW, std and HP electronics boards

SHAPER-I

➢ Integrated version for Shaper electronics board

GUI (examples)
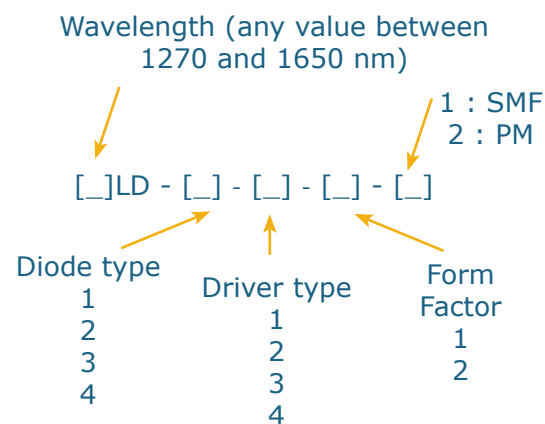

Mechanical (examples) :
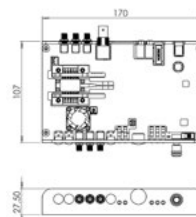
CW & Pulsed   SHAPER
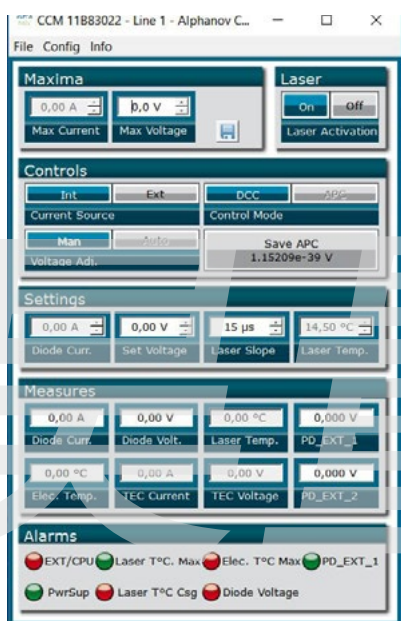
Classification :

Name	1550 LD :
Diode type	1: 10 mW DFB Butterfly singlemode 2: 40 mW DFB Butterfly singlemode 3: 100 mW DFB singlemode 4: 400 mW Bragg singlemode
Wavelength	Choose any wavelength between 1270 and 1650 nm (models 1-3) or between 1420 and 1500 nm (models 4)
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)
Form Factor	1: Open 2: Integrated

Ordering information :

Wavelength (any value between 1270 and 1650 nm)

1 : SMF
2 : PM

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

Diode type
1
2
3
4

Driver type
1
2
3
4

Form Factor
1
2

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

AeroDIODE