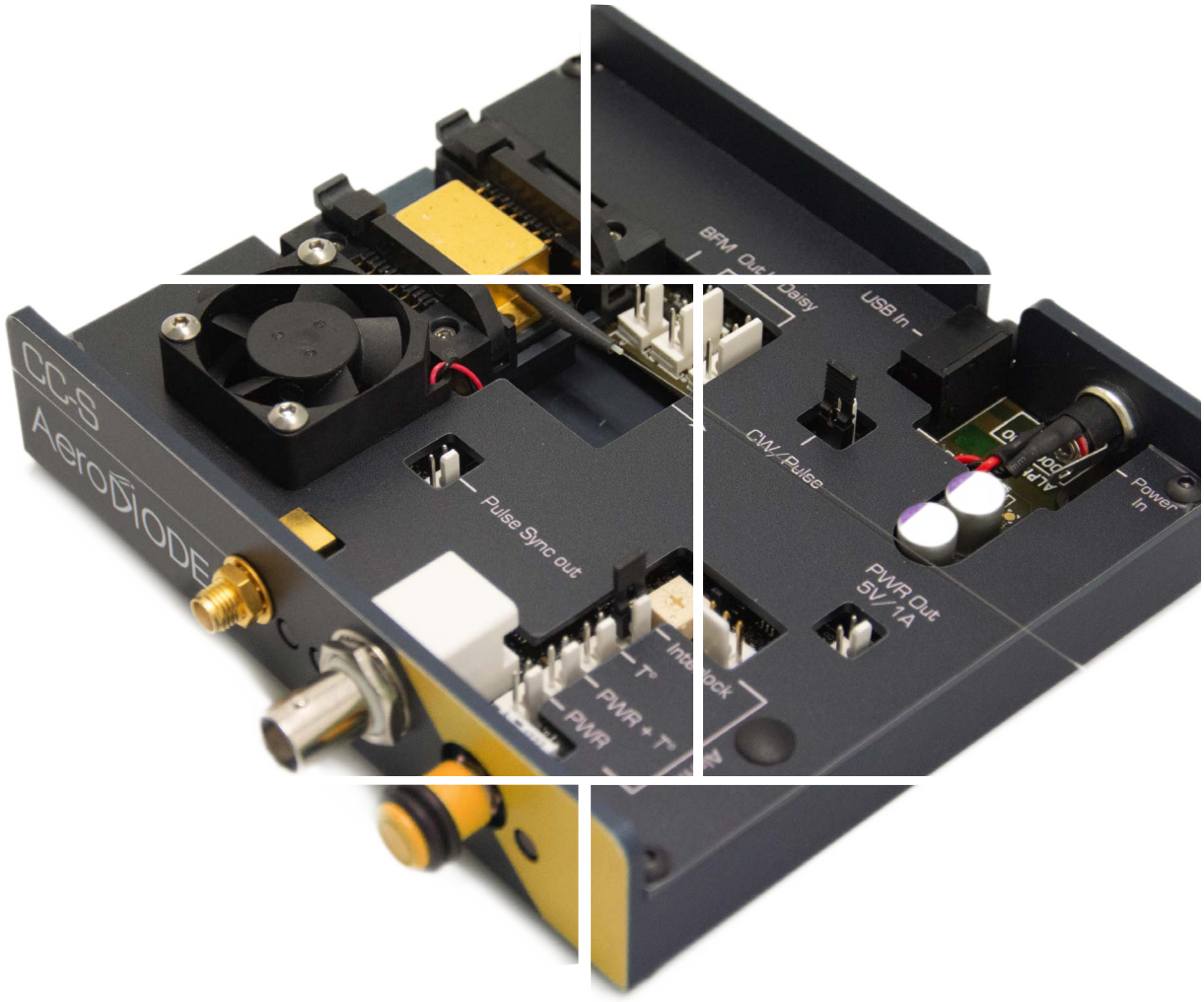
1064 nm Laser diode & Turn-key solutions



AeroDIODE

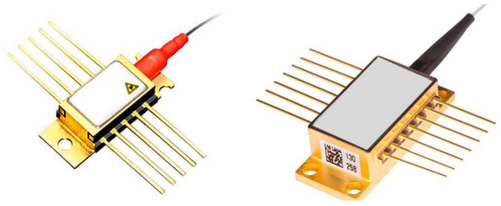
www.aerodiode.com

1064 nm laser diode

Choose your own Bragg or **DFB laser diode** + turn-key Driver solution

Standard Bragg or **DFB 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	Techno-logy	Wavelength (nm)	Fiber	Emisison Band-width (typ)	Power Kink free (CW)	Power Kink free (Pulse)	Package
1	Standard with Bragg	1060 ±2nm	PM	CW : < 0.2 nm Pulse : <1 nm*	up to 550 mW	up to 1500 mW	14 pin - type 1
2	DFB	1063.5 ±2nm	PM	~ 200 kHz	up to 200 mW	up to 800 mW	10 pin - type 1
3	Ultra Broad FBG	1064 ±2nm	PM	> 2nm	up to 650mW	up to 2000 mW	10 pin - type 1

* : Standard Bragg laser diode cannot lock to a pulsewidth before 10-100 nanosecond - prefer DFB or Broad FBG if it is a problem

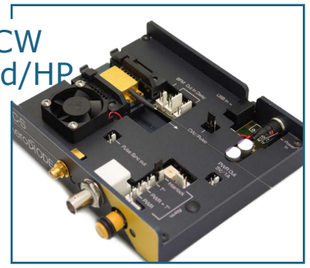
2nd Choose your Driver performance :

	Laser Diode version	LASER DRIVER VERSION : CW	Std (from 1ns to CW)	HP (High Power)	HPP (High Pulse Performance)	SHAPER (User Design ns Pulse Shape)
Output Power - CW regime (typ)	1 - Bragg	550 mW	400 mW		550 mW	No
	2 - DFB	200 mW				
	3- Broad FBG	500 mW		650 mW		
Output power - Pulse regime (typ)	1 - Bragg	-	800 mW	1500 mW	1600 mW	850 mW
	2 - DFB		800 mW			
	3- Broad FBG		950 mW	2000 mW		1000 mW
User design Pulse shape	Any	No	No (On-Off Driver only)			Yes
Laser diode T° range		15 - 50 °C				
Pulse duration (Ext pulse trigger)		CW only	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			3 (ns/A) ; 1.5 ns		< 1 (ns/A) ; 1.5 ns	
Internal rep rate adjustment			1Hz - 4MHz	1Hz - 10MHz (250MHz optional)	1Hz - 250MHz	1Hz - 20MHz
Temporal Jitter			< 25 ps		< 8 ps	< 2 ns
Adj. CW offset in pulse regime			No	Yes		No
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python				

3rd Choose your product form factor : OPEN or INTEGRATED

OPEN VERSIONS :

CCS-CW
CCS-std/HP

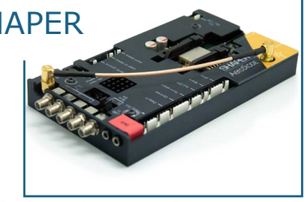


➢ Open driver for CW, std and HP electronics Boards

CCS-HPP

➢ Open driver for HPP (High Pulse Performance) electronic Board

SHAPER



➢ Open driver for Shaper electronics Board

INTEGRATED VERSIONS :

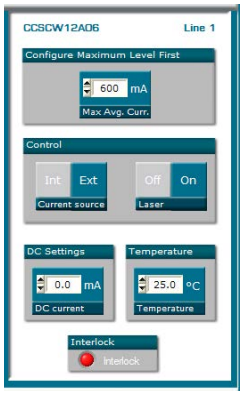
CCSI-CW/
std/HP/HPP

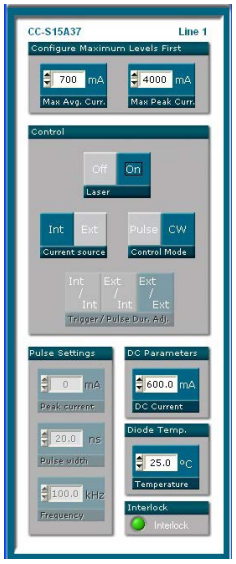
➢ Integrated version for CW, std and HP electronics Boards

SHAPER-I

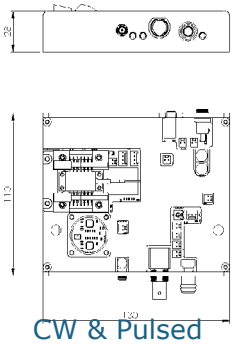
➢ Integrated version for Shaper electronics Board

GUI (examples)

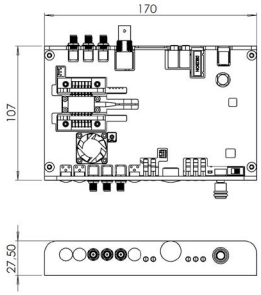




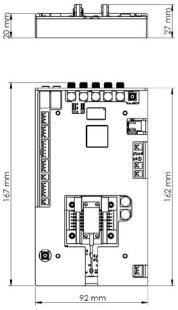
Mechanical (examples) :



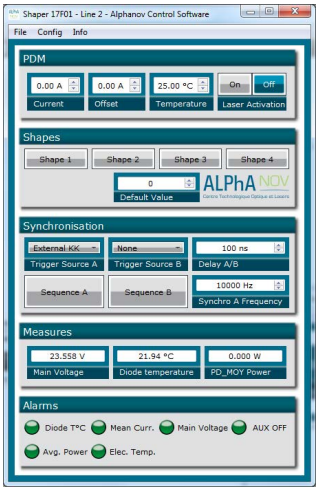
CW & Pulsed

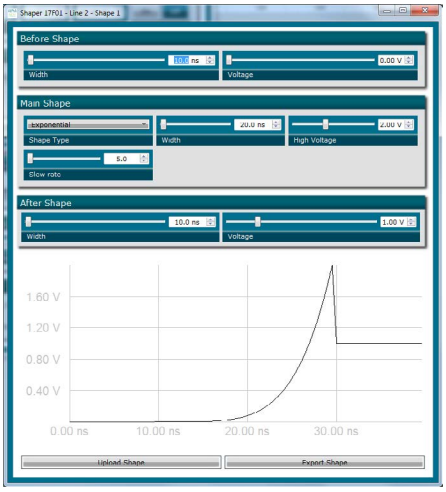


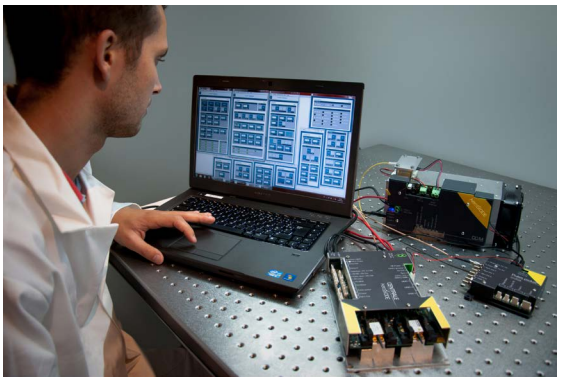
HPP



Shaper







Classification :

Name	1064nm LD :
Diode type	1 : Standard with Bragg 2 : DFB 3 : Ultra Broad FBG
Driver Electronics :	1: CW (open driver for CW only) 2: std (Standard Pulse and CW Driver) 3 : HP (High Power) 4 : HPP (High Pulse Performance) 5 : SHAPER
Form Factor	1: Open 2: Integrated

Ordering information :

1064LD - [_] - [_] - [_]

Diode type	Driver type	Form Factor
1	1	1
2	2	2
3	3	
	4	
	5	

Photos : ALPhANOV - Version 02-2020

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