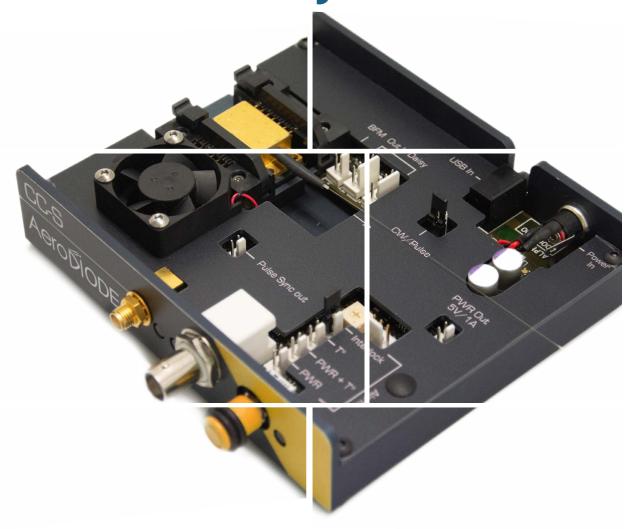
# 790-795 nm Laser diodes & Turn-key solutions





# 790-795 nm laser diode

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

Standard singlemode or multimode laser diodes in the 790-795 nm wavelength range are offered as stock items or combined with a CW or pulsed turn-key laser diode driver.

# 1 St Choose your laser diode :



Diode model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber (or eq.)	Emisison Band- width (typ)	Package (mm)
1	250 mW	400 mW	Butterfly single mode	$790 \pm 5 \text{ nm}$ (792 nm $\pm 1 \text{ nm}$ with FBG option)	Hi 780 PM 780	~1 nm (0.2 nm with FBG OPTION)	14 pin Butterfly- type 1
2	10 W	10 W	Multimode single emitter		Multimode 105 µm NA=0.22	~ 3 nm	21*55*9.2
3	30 W	30 W	Multimode multi emitter	793 ± 3 nm			25*43*11
4	50 W	50 W					48*80*16
5	100 W	100 W				~ 5 nm	155*62.7*22
6	130 W	130 W					190*73*22
7	180 W	180 W					222*50*24.9

3rd Choose vi

Choose your product form factor: OPEN-FRAME or INTEGRATED

# **OPEN-FRAME VERSIONS:**





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

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



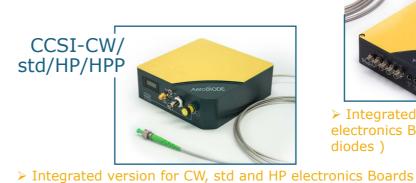
«CCM» Open-frame driver for Multimode diodes (10-200W)



### LASER DRIVER VERSION:

	790-795 nm Laser Diode version	CW Driver (for singlemode diodes : « <u>CCS-CW</u> » is the open driver and <u>CCSI-CW</u> is the integrated version)	Pulse & CW Driver (from 1 ns to CW: « <u>CCS-std</u> » is the open driver and <u>CCSI-std</u> is the integrated version)	User design pulse shape Driver (« <u>Shaper</u> » open driver / « <u>Shaper-I</u> » inte- grated version) from 0.5 ns to 8 µs	Multimode diode Driver (High power driver for 10 to 150 W diodes: <u>CCM</u> is the open version, <u>CCMI</u> is the integrated version)	
	1- Single mode	250 mW / No	250 mW / 400 mW	No / 400 mW	Not compatible	
Output Power - CW / Pulse (Typical values)	2- Multimode : 10 W 30 W 50 W 110 W	Not compatible			10 W / 10 W 30 W / 30 W 50 W / 50 W 110 W / 110 W (no driver available for 130 W or 180 W models)	
User design Pulse shape		No	No (On-Off only)	Yes	No	
Laser diode T°			15-40 °C			
Pulse duration (Ext. trigger)		CW only	0.5 ns - CW		10 μs - CW	
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns	0.5 ns - 8 μs	No	
Typ rise/fall time ; Min optical pulse duration (Butterfly package diodes)	Any		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				

# **INTEGRATED VERSIONS:**





Integrated version for Shaper electronics Board (single mode diodes )

> «CCMI» Int

**CCMI** 

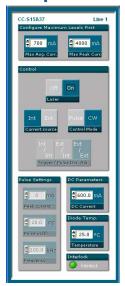




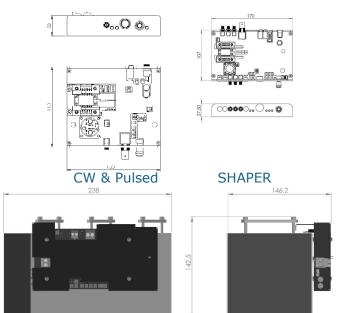
# **Technical Specifications**

## GUI (examples)





### Mechanical (examples):

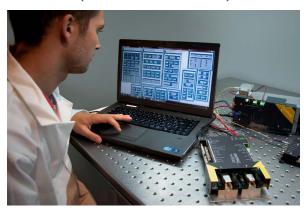


# OPTIONS (see all prices on the website page):

- \* PM fiber output
- \* Narrow spectrum (FBG-based)
- \* Optical collimator (3mm or high power 10 mm version)
- \* 250 MHz rep rate for pulse diode +driver versions
- \* Special Benchtop version for lab use (see the description on the website page and the picture below)



### CCM (for Multimode diodes)



### Classification:

Name		790LD:			
	Diode type	0: Laser diode only 1: 250 mW Butterfly singlemode 2: 10 W multimode 3: 30 W multimode 4: 50 W multimode	5: 100 W multimode 6: 130 W multimode 7 : 180 W multimode		
	Driver Electro- nics :	O: No driver (laser diode alone) 1: CCS/CCSI-CW (CW laser emission diodes) 2: CCS-CCSI-std (Pulsed and CW Drive 3: SHAPER (User design temporal puls diodes) 4: CCM/CCMI (for multimode high pov	r - for singlemode laser diodes) se shape - for singlemode laser		
	Form Factor	O: No driver (laser diode alone) 1: Open frame driver version 2: Integrated driver version			

# Ordering information:

