

High power laser diode & Turn-key solutions



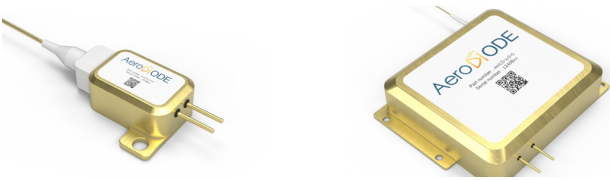
AeroDiODE

High power laser diode

Choose your own high power fiber-coupled laser diode alone or associated with a modular & easy-to-use driver

These fiber-coupled high power laser diodes at 808, 915, 976, 980 or 1064 nm are offered as stock items or associated with a turn-key laser diode driver with TEC and air cooled temperature regulation. Two driver+diode form-factors can be chosen.

1st
Choose your laser diode :



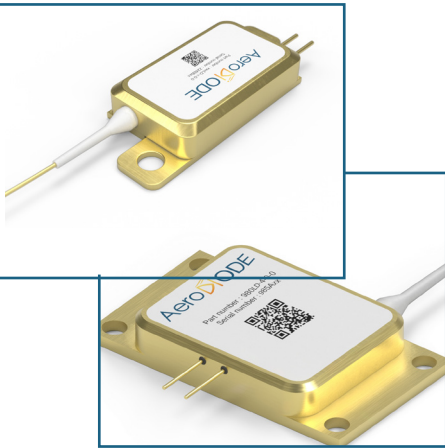
Diode #	Wavelength	Power	Typ. Operating Current/Voltage	Spectral Tolerance/ Width	Fiber properties	Back reflection isolation
1	808 nm	10 W	3.5A/5.5V	±10nm/5nm	105/125/900/0.22	30 dB 1020/1200 nm
2		35 W	6.5A/13.5V		105/125/900/0.22	
3		60 W	7.0A/22.5V		105/125/900/0.22	
4		100 W	9.5A/24V		200/240/900/0.22	
5	915 nm	10 W	11A/1.6V	±10nm/3nm	105/125/900/0.22	
6		30 W	12A/4.8V	±10nm/6nm	105/125/900/0.22	
7		70 W	12A/11V	±10nm/6nm	105/125/900/0.22	
8		160 W	13A/27V	±10nm/6nm	105/125/900/0.22	
9		250 W	18A/27V	±10nm/5nm	135/155/900/0.22	
10		300 W	19A/32V	±10nm/5nm	135/155/900/0.22	
11	976/980 nm (Broad emission spectrum)	10 W	12A/1.7V	±3nm/3nm	105/125/900/0.22	
12		30 W	12A/5V	±3nm/6nm	105/125/900/0.22	
13		70 W	12A/11V	±3nm/6nm	105/125/900/0.22	
14		150 W	13A/23V	±3nm/6nm	105/125/900/0.22	
15		250 W	18A/27V	±3nm/4nm	135/155/900/0.22	
16		330 W	21A/33V	±3nm/4nm	135/155/900/0.22	
17		420 W	21A/42V	±3nm/4nm	135/155/900/0.22	
18	976 nm (Narrow emission spectrum)	10 W	12A/1.6V	±0.5nm/0.5nm	105/125/900/0.22	
19		30 W	12A/4.8V		105/125/900/0.22	
20		60 W	12A/12V		105/125/900/0.22	
21		140 W	13A/22.5V		105/125/900/0.22	
22	1064 nm	10 W	10A/1.6V	±10nm/5nm	200/240/0.22	

Driver specifications (optional) :

	CCM (standard)	CCM-HP (High Power)
For laser diodes	1,2,3,5,6,7,11,12,13,18,19,20 (see first table)	4,8,9,10,14,15,16,17,21 (see first table)
Output current	up to 13 A	up to 21 A
Output voltage	up to 23 V	up to 36 V
Laser diode temperature regulation range	15-40°C	
Laser diode temperature stability	<10 mK	
Modulation rate	100 KHz	
Compatibility & libraries	Win 7/10 ; Hexa / DLLs / LabVIEW / Python	
Others	Photodiode input and APC mode ; Auto mode for precise voltage adjustment ; The fan speed is automatically adjusted ; Ultra-low noise properties	
Power supply	24 V	
Dimensions (open version) (mm)	238*119*112	238*146*142.5
Dimensions (integrated version) (mm)	248.4*162*153.6 mm	

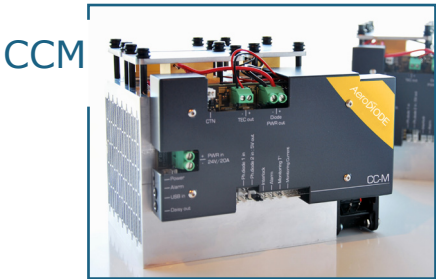
2nd
Choose your product form factor : ONLY DIODE, OPEN or INTEGRATED :

ONLY DIODE



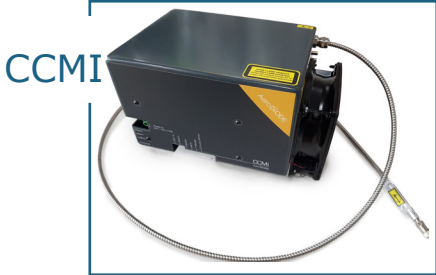
➤ High power laser diodes offered alone with a 2 m 105/125/900 μm fiber and a high power SMA905 optical connector.

OPEN VERSION



➤ Open driver : ideal for lab use (fiber laser R&D etc.) - The laser diode can be easily replaced by the user

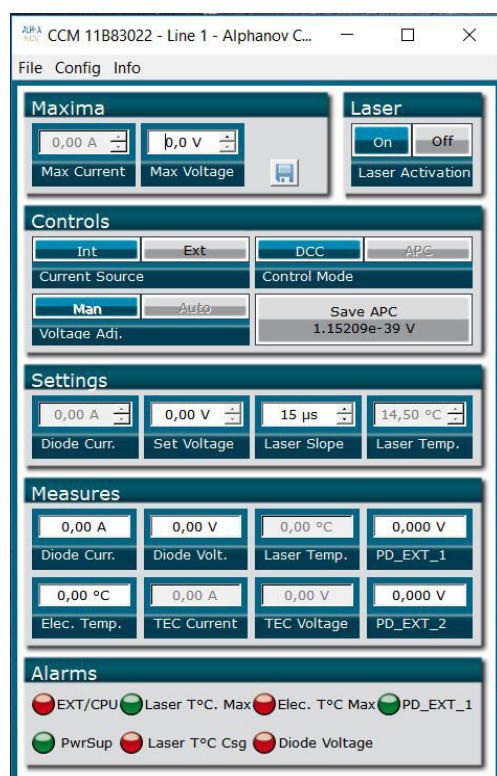
New !
INTEGRATED VERSION
with high power connector
or collimator :



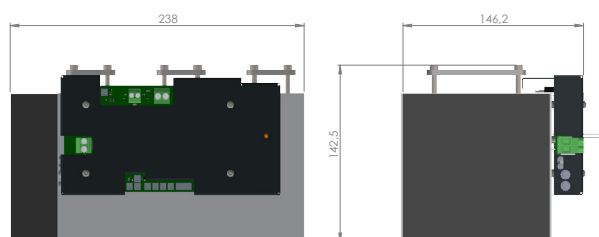
➤ Integrated driver : an easy-to-use solution with protected fiber and high power connector and optional collimator

Technical Specifications

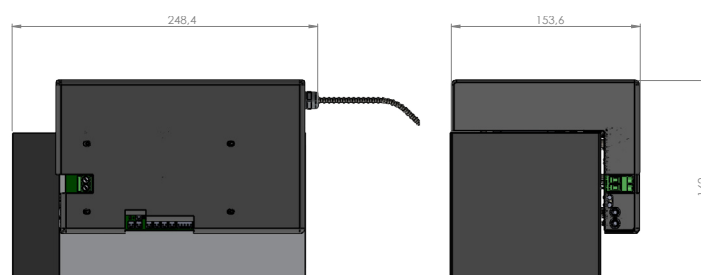
GUI :



Mechanical :



➤ Open driver



➤ Integrated module

Classification :

Name	High Power LD :
Diode type	1 : 808 nm - 10 W ; 2 : 808 nm - 35 W ; 3 : 808 nm - 60 W ; 4 : 808 nm - 100 W
	5 : 915 nm - 10 W ; 6 : 915 nm - 30 W 7 : 915 nm - 70 W ; 8 : 915 nm - 160 W ; 9 : 915 nm - 250 W ; 10 : 915 nm - 300 W
	11 : 976/980 nm - 10 W - Broad spectrum 12 : 976/980 nm - 30 W - Broad spectrum 13 : 976/980 nm - 70 W - Broad spectrum 14 : 976/980 nm - 150 W - Broad spectrum 15 : 976/980 nm - 250 W - Broad spectrum 16 : 976/980 nm - 330 W - Broad spectrum 17 : 976/980 nm - 420 W - Broad spectrum
	18 : 976 nm - 10 W - Narrow spectrum 19 : 976 nm - 30 W - Narrow spectrum 20 : 976 nm - 60 W - Narrow spectrum 21 : 976 nm - 140 W - Narrow spectrum
	22 : 1064 nm - 10 W - Narrow spectrum
Form Factor	1: Laser diode alone 2: Laser diode with open driver 3: Integrated laser diode module

Ordering information :

High Power LD - [] - []

Diode type	Form Factor
1; 2; 3;	1
4; 5; 6;	2
7; 8; 9;	3
10; 11; 12;	
13; 14; 15;	
16; 17; 18;	
19; 20; 21; 22	