

CC-M

Multimode Cool & Control Module



ALPhA **NOV**

Optics & Lasers Technology Center

CC-M

High Power Laser Diode Driver

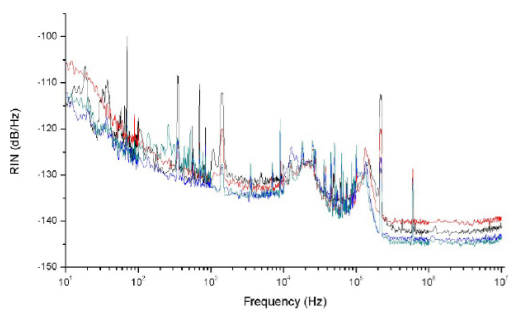
A module to drive current and control temperature of high-brightness laser diodes up to 220 W.



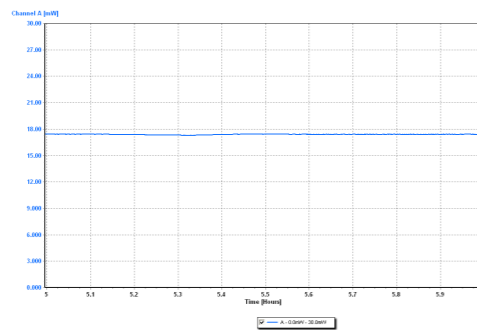
The Multimode Cool & Control (CC-M) module allows to control external single or multiple element laser diodes up to 36 V - 21 Amps. Several laser diodes can be mounted in series on a single module. The laser diodes can be stabilized in either ACC (Automatic Current Control) or APC (Automatic Power Control using an external photodiode signal).

Key features:

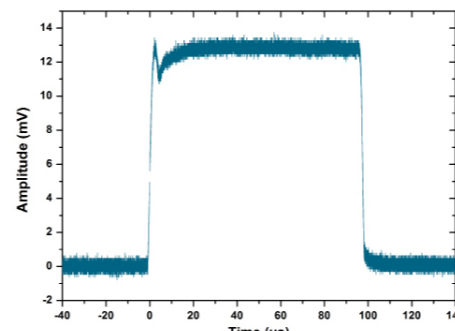
- Compatible with multiple elements laser diodes like II-VI, BWT, NLight, IPG, Lumentum, Dilas etc.
- Drives laser diodes up to 36 V - 21 A
- Ultra-stable laser power for short and long term operation
- Up to 220 W CW power with new generation laser diodes
- Max modulation frequency : up to 100 kHz
- Highly efficient (>80 % from plug)
- Smart control (USB interface to drive simultaneously several modules from ALPhANOV's laser electronics series)



Extremely low noise

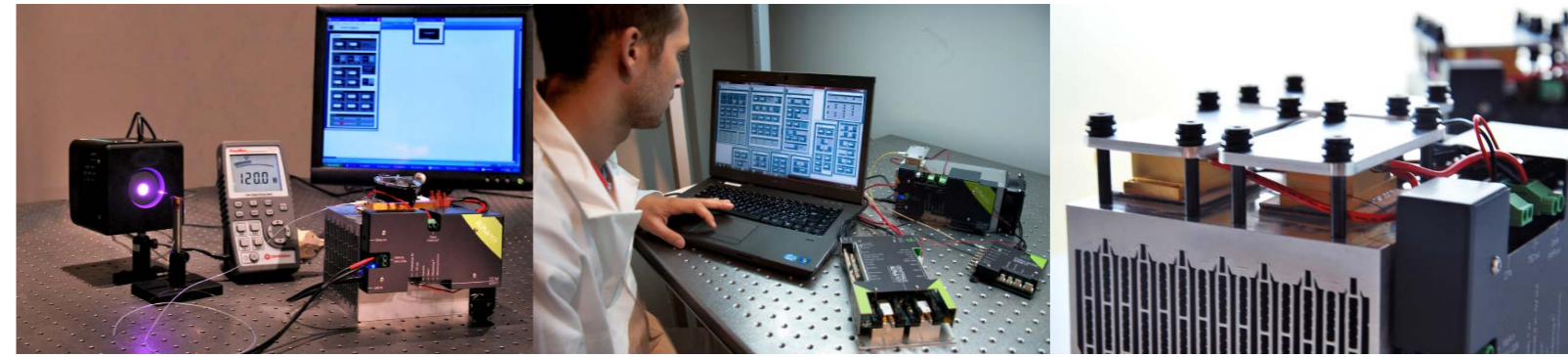


Ultra-stable laser power



Rise time

Technical Specifications

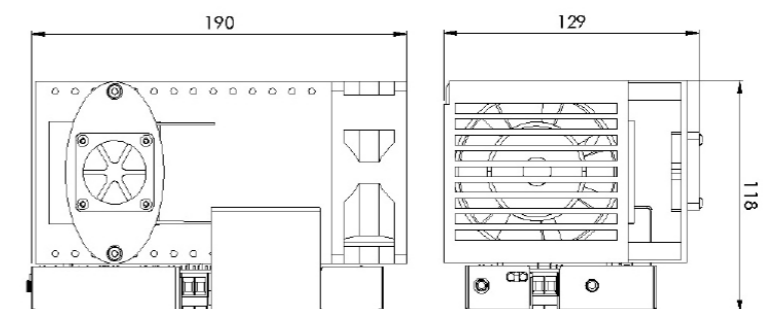


Electronic and Optical

	CCM	New: CCM-HP
Output current	0 - 13 A	0 - 21 A
Output voltage (laser diode dependant)	0 - 23 V	0 - 36 V
Laser diode package temp. regulation	15 °C	40 °C
Temperature stability (integration dependant)	10 mK	
Low power adjustment precision	0.05 A	
Laser power stability	< 0.05 %	
Max modulation rate	100 kHz	
Compatibility & Libraries	Windows 7/Windows 10 / DLLs / Hexa / Labview VI (prov)	
Interface	USB	
Power supply	24 V	

Subject to change without notice

Mechanical



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