

# CC-M

## Multimode Cool & Control Module



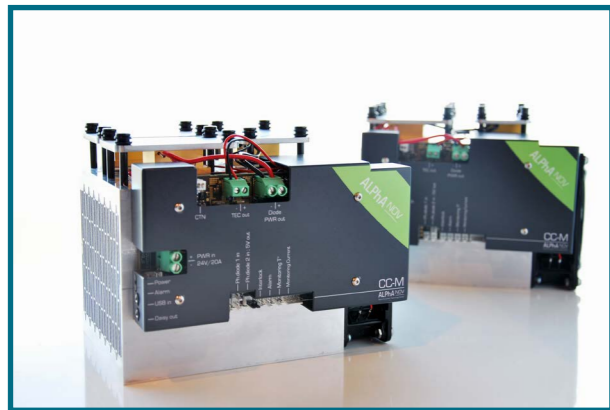
**ALPhA** **NOV**

Optics & Lasers Technology Center

# CC-M

## Multimode Cool & Control Module

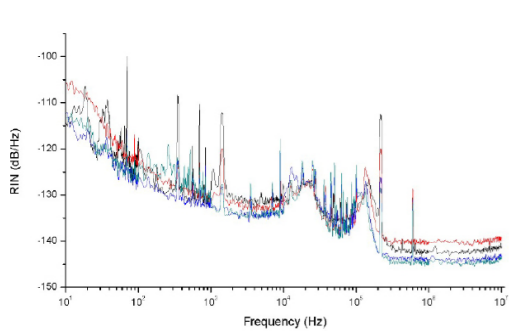
A module to drive current and control temperature of high-brightness laser diodes up to 120 W.



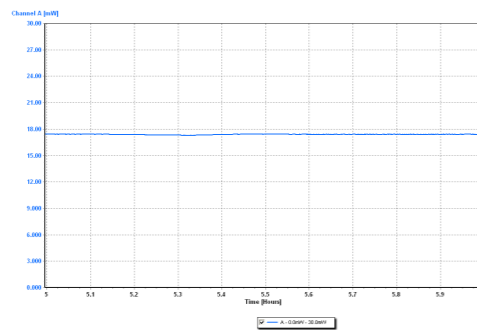
The Multimode Cool & Control (CC-M) module allows to control external single or multiple element laser diodes up to 25V-17 Amps. Several laser diodes can be mounted in series on a single module. The laser diodes can be stabilized in either ACC (Automatic Current Control) or APC (Automatic Power Control using an external photodiode signal).

### Key features:

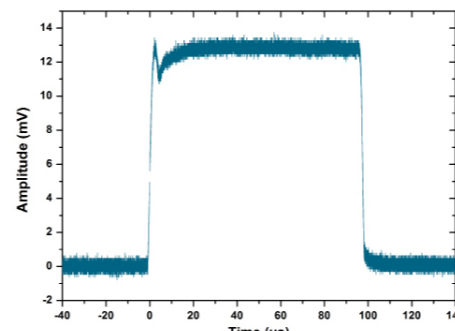
- Drives laser diodes up to 25V-17A
- Ultra-stable laser power for short and long term operation
- Compatible with any type of multimode fiber coupled multiple element laser diodes
- Up to 120W CW power with new generation laser diodes
- Max modulation frequency : up to 500kHz
- Highly efficient (>80% from plug)
- Smart control (USB interface to drive simultaneously several modules from ALPhANOV's laser electronics series)



Extremely low noise

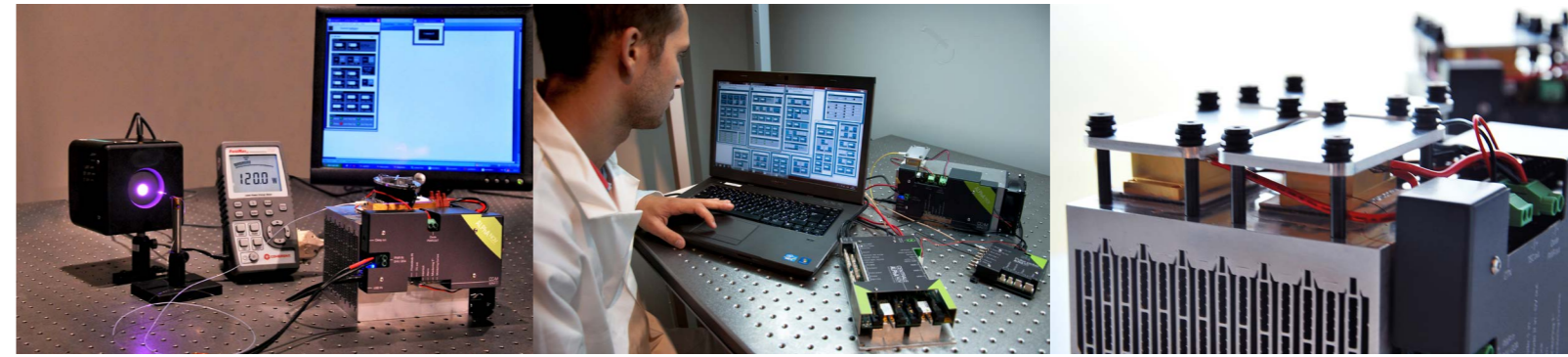


Ultra-stable laser power



Rise time

## Technical Specifications

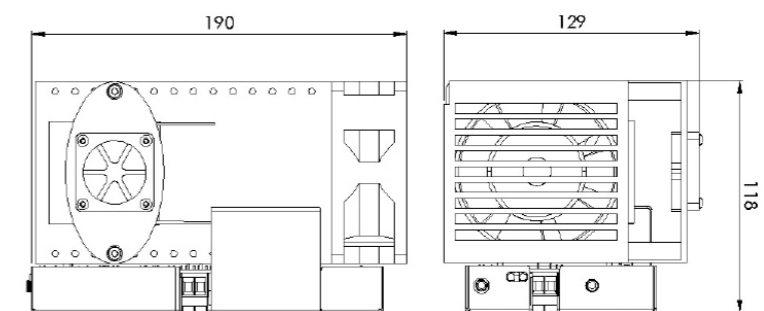


### Electronic and Optical

	Min	Max
Output current	0 A	17 A
Output voltage (depends on diodes)	0 V	25 V
Laser diode package temp. regulation	20 °C	40 °C
Low power adjustment precision	0.05 A	
Laser power stability	< 0.05 %	
Max modulation rate	500 kHz	
Compatibility	Windows XP/Windows 7	
Interface	USB	
Power supply	24V or 28V	

Subject to change without notice

### Mechanical





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