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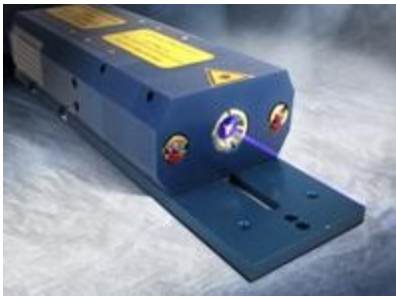
[CWA](#)

[CWA.L](#)

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CWA – Laboratory-Style CW Lasers



High Stability CW laser diode modules with laboratory style controller

Bluephoton® CWA Series – 375 nm – 488 nm

Greenphoton® CWA Series – 515 nm

Redphoton® CWA Series – 635 nm – 1060 nm

Specifications CWA-Models

Blue- / Greenphoton® CWA Redphoton® CWA

Wavelengths & Powers
(other wavelengths and powers on
request)

Single-Mode (SM):

- 375nm / 20mW
- 375nm / 70mW
- 395nm / 120mW
- 405nm / 55mW
- 405nm / 120mW
- 405nm / 300mW
- 415nm / 120mW
- 425nm / 120mW
- 445nm / 50mW
- 445nm / 100mW
- 457nm / 100mW
- 460nm / 100mW
- 473nm / 20mW
- 473nm / 80mW
- 473nm / 100mW
- 488nm / 20mW
- 488nm / 60mW
- 488nm / 80mW
- 488nm / 100mW
- 488nm / 150mW
- 488nm / 200mW
- 515nm / 25mW
- 515nm / 50mW
- 515nm / 80mW

Multi-Mode (MM):

Single-Mode (SM):

- 635nm / 5mW
- 637nm / 150mW
- 639nm / 40mW
- 643nm / 150mW
- 647nm / 150mW
- 658nm / 130mW
- 670nm / 15mW
- 685nm / 35mW
- 785nm / 120mW
- 808nm / 200mW
- 830nm / 200mW
- 852nm / 150mW
- 980nm / 150mW
- 1016nm / 100mW
- 1060nm / 100mW

Multi-Mode (MM):

- 638nm / 250mW
- 670nm / 500mW
- 808nm / 1000mW
- u.v.m.

	375nm / 200mW ($M^2 = 7...8$) 405nm / 400mW ($M^2 = 5...6$) 405nm / 600mW ($M^2 = 5...6$) 445nm / 500mW ($M^2 = 2...3$) 445nm / 1200mW ($M^2 = 5...6$)	
Beam diameter (other diameters on request)	1.25mm ($1/e^2$) +/- 0.25mm (MM beam diameter may vary)	1.25mm ($1/e^2$) +/- 0.25mm (MM beam diameter may vary)
Beam quality M^2	<1.2 (SM) <3 (MM)	<1.2 (SM) <10 (MM)
Astigmatism (corrected)	<0.2*ZR	<0.2*ZR
Beam ellipticity	<1.1:1 (SM)	<1.1:1 (SM)
Polarisation	>100:1 vertical	>100:1 vertical
Power stability*	<0.5% / h	<0.5% / h
Noise 0Hz-100MHz*	<0.5% peak<>peak (CW)	<0.5% peak<>peak (CW)
Modulation speed	Analog: 100Hz Digital: 10kHz	Analog: 100Hz Digital: 10kHz
Supply voltage	85-245VAC, 50/60Hz	
Features	Safety-Interlock LCD-working-hours display Remote-connector	
Options	LDM.COL - collimator objective LDM.FOC - customized focussing objective LDM.FASY.XXX - fibre coupling unit	

* Noise and power stability values of IR lasers and multi-mode lasers may vary

The lasers of the CWA Series are highly-stable, temperature-stabilized diode lasers, with powers up to 500 mW and on request, modal jump-free CW operation. The high-precision temperature stabilization to a maximum diode temperature variation of <0.02°K and the stable power source for the laser diode, enable extreme power stability and very low noise levels.

The systems consist of a laser head and a laser controller in the 19" cassette housing, with integrated 90-240 V AC 50/60 Hz power unit for global employment. The integrated modulation inputs for analog power modulation with up to 1kHz, and TTL modulation with up to 10k Hz, enable integration into control and measurement processes. As in case of all lasers of the Bluephoton® and Redphoton® Series, the laser head can be very simply adapted to customer specifications by the use of the modular principle.

Downloads

Press Releases

[1.2 Watt blue diode laser](#)

[488nm diode lasers](#)

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