

CL Product Line

UV Excimer CL-5000 laser series (CL-5100, CL-5200, CL-5300)

Key features

- Compact excimer laser
- Metal ceramic design
- Long lifetime Thyatron switch
- Built-in Energy monitor
- Energy stabilization
- Air-cooled versions (CL-5100)



Optromix CL-5000 is a compact and powerful excimer laser with wavelengths 193 nm, 248 nm and 308 nm. CL-5000 is equipped with high voltage switch – a high resource cold cathode thyatron. The laser has an average power stabilization system and a computer control, which makes it easy and convenient to use. Moreover, CL-5000 provides a longer lasting time for gas mixture. Excimer laser is a perfect source for ophthalmic system. It is also a great solution for various industrial purposes, namely manufacturing diffractive structures in optic fibers, micro marking, processing of certain materials and laser deposition.

Applications

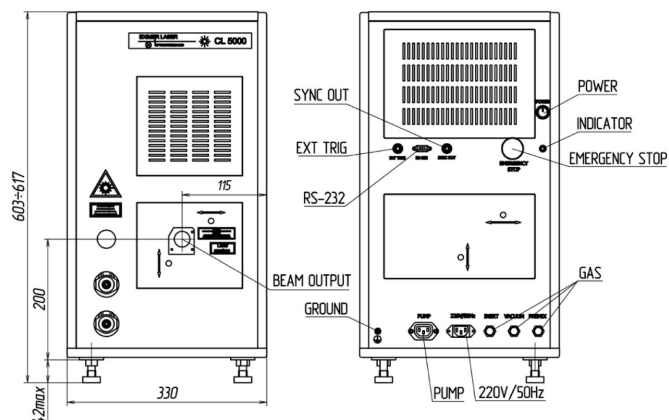
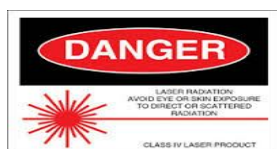
- Spectroscopy
- FBG writing
- Material processing
- Micromarking
- DUV Lithography

Model	Max. repetition rate
CL -5100	100 Hz
CL -5200	200 Hz
CL -5300	300 Hz

CL-5000 series specification

Parameter	Value		
Gas mixture	ArF	KrF	XeCl
Wavelength	193 nm	248 nm	308 nm
Nominal Pulse Energy	20 mJ	40 mJ	25 mJ
Average Power			
CL 5100	2 W	4 W	2.5 W
CL 5200	4 W	8 W	5 W
CL 5300	5 W	10 W	7 W
Max. repetition rate			
CL 5100	100 Hz		
CL 5200	200 Hz		
CL 5300	300 Hz		
Pulse duration	8-10 ns	9-11 ns	
Pulse energy stability	sigma < 2%		
Beam size (V * H)	12 mm x 5 mm		
Beam Divergence (V * H)	4 mrad x 2 mrad (stable resonator)		
Time jitter	< 2 ns		
Gas	1 premix cylinder		
Cooling			
CL 5100	air		
CL 5200/5300	water < 1 liter/min		
Control interface	RS-232 (Windows)		
Power consumption	220 - 240 V, 50 - 60 Hz, 1.5 kW		
Dimensions (W x H x L)	330 x 550 x 780 mm		
Weight	80 kg		

Optromix provides 1 year warranty for all systems.



Information in this document is a subject to change without notice.