



CL Product Line

UV Excimer CL-7000 laser series (CL-7020, CL-7050, CL-7100)

Key features

- High pulse energy
- Metal ceramic design
- Long lifetime Thyatron switch
- Built-in Energy monitor
- Energy stabilization
- Air-cooled versions up to 20 Hz



Optromix InfraLight 7000 excimer laser 193, 248, 308 nm has a high pulse energy, which allows successful performance of various applications. Its high tech metal ceramic design makes the laser unique and easy to utilize. Excimer laser is equipped with a long lifetime thyatron switch to manipulate voltage discharges. Built-in energy monitor allows the laser to perform on the stable energy level all the time, without any interruptions. Moreover, today Optromix is offering air cooled versions with the max repetition rate up to 20 Hz. InfraLight 7000 excimer laser is a perfect fit for scientific and industrial purposes. Spectroscopy, manufacturing diffractive diffractive structures in fibers, material processing and micro marking can be performed using our new laser systems.

Applications

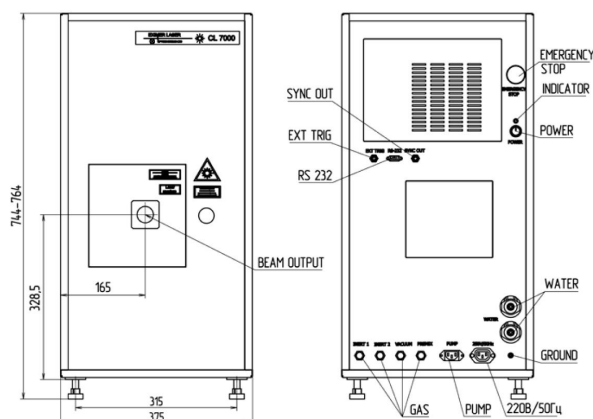
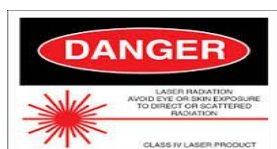
- Spectroscopy
- FBG writing
- Material processing
- Micromarking
- DUV Lithography

Model	Max. repetition rate
CL -7020	20 Hz
CL -7050	50 Hz
CL -7100	100 Hz

CL-7000 series specification

Parameter		Value		
Gas mixture		ArF	KrF	XeCl
Wavelength		193 nm	248 nm	308 nm
Nominal Pulse Energy		250 mJ	400 mJ	300 mJ
Average Power	CL 7020 CL 7050 CL 7100	5 W 12 W 25 W	8 W 20 W 35 W	6 W 15 W 25 W
Max. repetition rate:		CL 7020 20 Hz CL 7050 50 Hz CL 7100 100 Hz		
Pulse duration		17 ns	20 ns	
Pulse energy stability		sigma < 2%		
Beam size (V * H)		20 mm x 6 mm	21 mm x 6 mm	22 mm x 6 mm
Beam Divergence (V * H)		4.5 mrad x 1.5 mrad (stable resonator)		
Time jitter		< 2 ns		
Gas		1 premix cylinder		
Cooling	CL 7020 CL 7050 CL 7100	air water < 1 liter/min water < 3 liter/min		
Control interface		RS-232 (Windows)		
Power consumption	CL 7020 CL 7050 CL 7100	220 - 240 V, 50 - 60 Hz, 1.5 kW 220 - 240 V, 50 - 60 Hz, 1.8 kW 380/220 - 240 V, 50 - 60 Hz, 3.5 kW		
Dimensions (W x H x L)		375 x 746 x 1360 mm		
Weight		170 kg		

Optromix provides 1 year warranty for all systems.



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