



InfraLight Product Line

10 μm Infrared InfraLight-SP CO₂ laser series

Key features

- Tunable wavelength 9.2 -10.8 μm
- Short pulse
- High amplification
- Generation lines tuning
- Wide range of the working pressure
- Computer control
- Built-in gas regeneration system

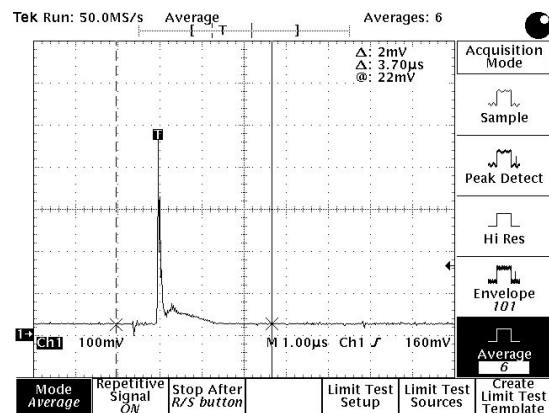


Optromix InfraLight-SP is a CO₂ laser with tunable wavelength 9.2 μm - 10.8 μm and short pulse duration of 50-100 ns. It offers outstanding performance in industrial material processing purposes and other applications. InfraLight-SP is very easy to use; it is controlled with computer and provides the customer with user-friendly interface.

There are numerous applications that InfraLight-SP might be used for, including isotope separation, non-destructive testing, LIDAR, surface cleaning, marking, holing in circuit boards and IR spectroscopy.

Applications

- Isotope separation
- Non-destructive testing
- Lidars
- Surface cleaning
- Marking
- Holing in circuit boards
- IR spectroscopy

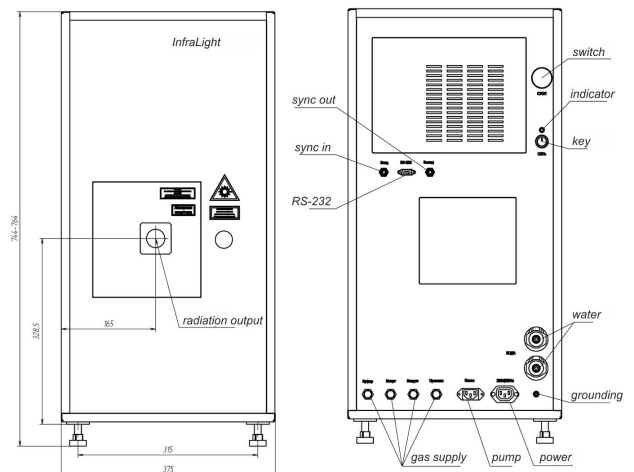




InfraLight-SP specification

Parameter	Value		Unit
Model	InfraLight-SP-10	InfraLight-SP-100	
Operating mode	pulsed		
Tunable wavelength	9.2 - 10.8		µm
Pulse energy (multimode)	700 (1000 without wavelength tuning)		mJ
Max. average power (multimode)	7	60	W
Pulse repetition rate	10	100	Hz
Pulse duration	50 - 100		ns
Beam size	11 x 11		mm
Divergence	M ² =5.6; E=700 mJ , M ² =2.5; E>350 mJ		mrad
Average power stability	0.8		% per hour
Pulse-to-pulse energy fluctuations	2		%
Jitter	< ±5		ns
Gas mixture consumption	< 2		liter*atm/hour
Control interface	RS-232 or RS 422		
Operating voltage	110, 240 V, 50 - 60 Hz	220, 380 V, 50 - 60 Hz	
Dimensions (WxHxL)	744x375x1360		mm
Weight	170		kg

- Optromix provides 1 year warranty for all systems.



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