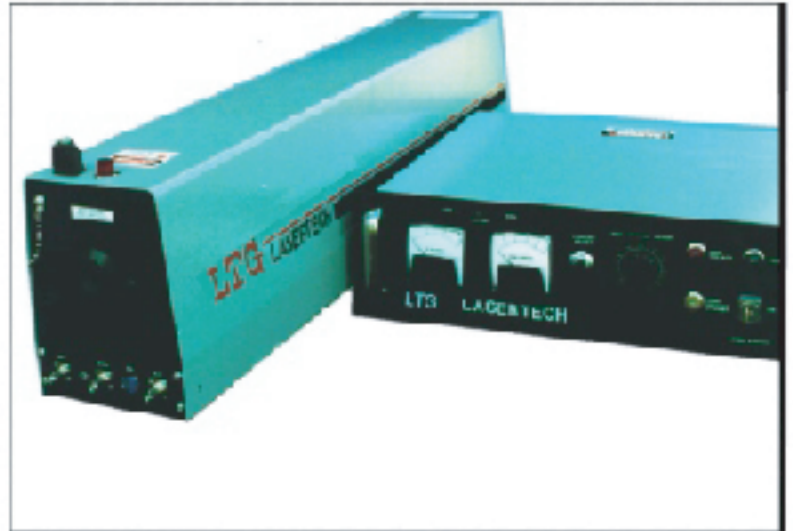


Features

- Hard-sealed laser tube construction
- Polarized, TEM₀₀, CW output power
- Invar stabilized cavity
- Isotopic CO₂ laser tubes
- User friendly operation and maintenance
- Add-on options
- Slow start power supply; current stabilized;
0.2% RMS ripple
- 1 year warranty



Applications

The LTG line of continuous wave, sealed CO₂ lasers are a dependable stable source of infrared radiation. These lasers are most suitable in scientific and industrial applications such as:

- Spectroscopy
- Interferometry
- Materials processing
- Optical communications
- Atmospheric transmission studies
- Isotopic analysis for biomedical, environmental and geological measurements

Description

The modular design of the laser permits the user to install optional components to suit specific criteria as required. These options include, for example, interchange of isotopic CO₂ laser tubes; components to extend wavelength coverage; grating and PZT elements for wavelength and cavity tuning; active power and frequency stabilizer; insertion of intracavity components; closed loop cooling, etc.

LTG Lasertech lasers have a solid reputation for long life and durability. This is a result of 35 years experience with sealed CO₂ laser technology. Achievements of 40,000 hours of operational life and 25 years of shelf life have been recorded.

We reserve the right to change the details of design, materials and finish in any way that will not alter function performance.

MODEL	LTG30	LTG70	LTG150	LTG250	LTG300	LTG500
ISOTOPE	¹² C ¹⁶ O ₂		¹² C ¹⁶ O ₂ , ¹⁴ C ¹⁶ O ₂ , ¹³ C ¹⁶ O ₂ , ¹² C ¹⁸ O ₂ , ¹³ C ¹⁸ O ₂			
NOM. WAVELENGTH (μm) fixed	10.6		10.6	11.8	11.2	10.5 10.9
NOM.WAVELENGTH (μm)tunable	9.2 - 10.8		9.2-10.9	11.2-12.1 [*]	9.6-11.4	9.0-10.6 9.5-11.0
MODE (warranted)	TEM ₀₀					
OUTPUT POWER (delivery) **	4W	8W	15W	25W	30W	60W
OUTPUT POWER (warranted) **	3W	7W	12W	20W	25W	50W
BEAM DIAMETER (1/e ² points)	3.5 mm	3.6 mm	3.7 mm	4.5 mm	4.5 mm	6.3 mm
BEAM DIVERGENCE (full angle)	3.8 mrad	3.7 mrad	3.7 mrad	3.0 mrad	3.0 mrad	3.0 mrad
OUTPUT POLARIZATION	HORIZONTAL			VERTICAL		
AMPLITUDE STABILITY SHORT TERM (MINUTES) LONG TERM (HOURS)	BETTER THAN ± 0.5% BETTER THAN ± 2%					
FREQUENCY STABILITY SHORT TERM (MINUTES) LONG TERM (HOURS)	BETTER THAN ± 100 KHz BETTER THAN ± 1 MHz					
COOLING REQUIREMENTS	1 LITER/MINUTE					
POWER REQUIREMENTS	100/115VAC, 60 Hz , 220 VAC, 50 Hz					
WATTAGE	345W	460W	460W	460W	460W	1700W
DIMENSIONS LASER HEAD (cm) LxWxH (in) LxDxH	89x15x20 35x6x9	109x15x20 43x6x9	137x15x20 54x6x9	165x15x23 65x6x9	165x15x23 65x6x9	172x20x23 68x8x9
POWER SUPPLY (cm) WxDxH (in.) WxDxH	48x43x12 19x17x5	48x43x12 19x17x5	48x43x12 19x17x5	48x43x12 19x17x5	48x43x12 19x7x5	48x55x22 19x22x9
WEIGHT LASER HEAD (kg/pounds) POWER SUPPLY (kg/pounds)	15/33 18/40	19/42 20/44	25/55 20/44	27/60 20/44	27/60 20/44	35/75 20/44
WARRANTY	ONE (1) YEAR					

* 9.9-10.5 μm

** Only for ¹²C¹⁶O₂

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