



OptoTools DL System is a robust, plug and play offering optimized for industrial applications. The system incorporates nLIGHT's proprietary Pearl™ single-emitter fiber-coupled diode laser integration technology, which enables industry-leading efficiency and reliability.

OptoTools DL System provides a highly flexible industrial solution that accommodates the wide range of Pearl fiber-coupled diode laser modules.

Features

- Powered by Pearl™ SE diode laser engine
- Diode-safe™ protective circuitry
- FieldFlex™ technology allows for in-field upgrading or replacement of Pearl modules
- Simple, plug and play integration
- Integrated pilot beam ready
- Air-cooled
- 19" rack mountable

Applications

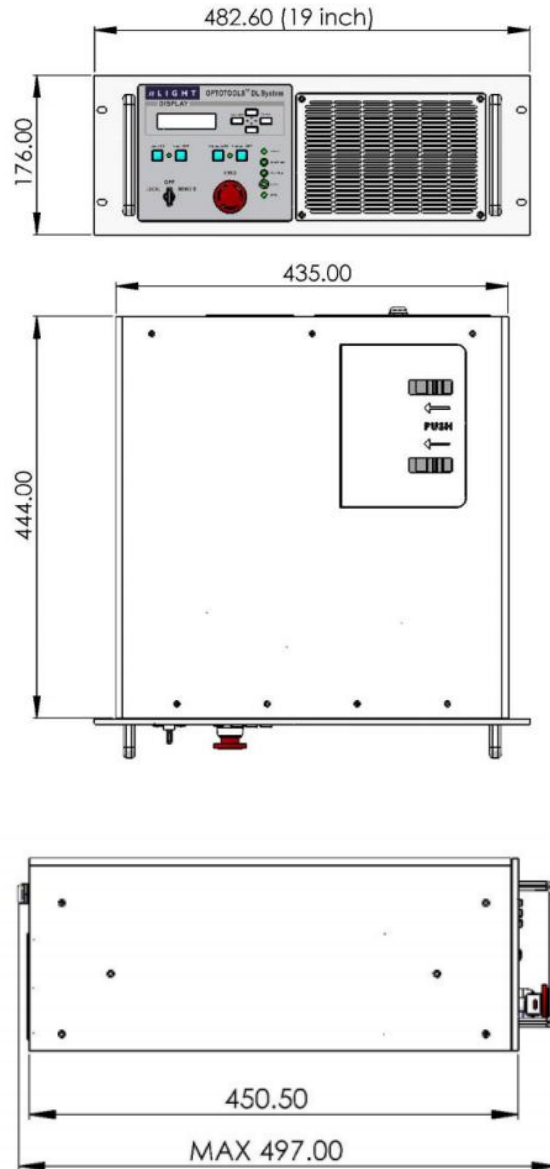
- Pumping
- Display
- Marking / Engraving
- Plastic welding
- Soft soldering
- Thin metal welding
- Material heating
- Medical
- R&D

Proven Performance

Typical Device Performance

Optical		DL System
Mode of operation		CW
Polarization		Random
Wavelength	nm	639-2000
Output power range	%	0-100
Output power stability	%	<2
Electrical		
Operating voltage	V _{AC}	110-240 ±10AC
Operating voltage frequency	Hz	50-60
Internal modulation		
Rise/Fall time	µs	150
Repetition rate	kHz	0-5
External modulation		
Rise/Fall time	µs	5
Repetition rate	kHz	0-50
Duty factor	%	5-100
Mechanical		
Dimensions		See schematic
Weight	kg	55
Cooling method		Air cooled
General condition*		
Operating temperature	°C	0 to +45
Storage temperature	°C	-20 to +70
Relative humidity	%	10 to 90
<i>*Non-condensing environment</i>		

Package Dimensions



CFR Regulation

These components do not comply with the federal regulation (Title 21 CFR, Chapter 1, Subchapter J) as administered by the Center for Device and radiological Health. Purchaser acknowledges that their products must comply with these regulations before they can be sold to an end-use.

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Notice

nLIGHT continually improves its products to provide our customers with outstanding quality and reliability. nLIGHT may make changes to specifications and product descriptions at any time, without notice. In addition, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact your nLIGHT sales representative.