



LINE LASER LIGHT DATA SHEET

MODEL: IITL-LD30-D

MAY 2022

Release 1.0

Product Description:

The Line laser light (IITL-LD30-D) provides excellent compensation light for the high speed line scan imaging system. It provides high power line shape illumination with reverse voltage protection, over temperature protection. The LDs inside are divided into two groups which can be individually turned on and off.

Specifications:

OPTICAL PARAMETERS	Min	Typ.	Max	Unit	Notes
Total radiation power		20		W	Single group of LDs is on.
Wavelength		808		nm	
Fan angle		50		degree	Measured at the distance of 1 m
ELECTRICAL PARAMETERS					
Power supply voltage	10	12	16	V	
Power supply current		4		A	V _{cc} =12V, V _{ctrl1} =5V, V _{ctrl2} =0V
Over temperature Protection		80		°C	Power shuts off
Reverse Voltage Protection			35	V	
Laser on/off control (V _{ctrl})	0		+8	V	TTL control Laser turn on when V _{ctrl} is high
Laser rise/fall time		5	10	ms	Power from 0 to 90%
MECHANICAL PARAMETERS					
Operation Temperature (T)	-30		50	C	Case temperature
Mechanical Dimensions (H x W x L)		41.5 x 3.6 x 8.9		cm	
Net weight		2.0		kg	
Lifetime		10000		hour	Keep each group of LDs on each time

Typ. test conditions: Power Supply: 12V, T=25C,

Connection Configuration

Power supply and Control wires:

Brown: Power Supply (+12V),

Blue: CNTL-2 (TTL 0 to 5V)

Yellow/Green: CNTL-1 (TTL 0 to 5V)

Black: GND

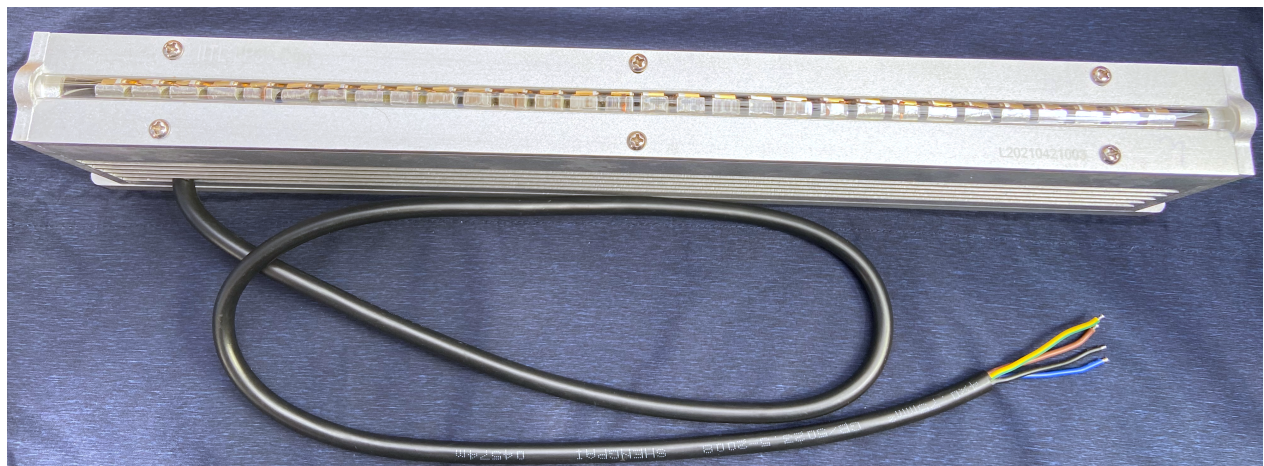


Figure 1

Special Notes

1. Do not apply power supply voltage higher than 16V.

1 meter