

TWL-P-HS



DEVICE

High Speed Tunable Wavelength Laser – Phoenix Series

OVERVIEW

The Optilab TWL-P-HS is a high speed, innovative, all-in-one tunable and programmable laser source with high spectral purity. Based on laser crystal technology, the TWL-P-HS can operate in three distinct modes: CW mode, continuous scan mode, and programmable scan mode over the entire C-band range. It also features variable scan speed up to 4000 nm/s. Its lightweight and compact design allow it to be easily utilized both in laboratory and field engineering applications. A built-in 7" touchscreen with intuitive graphical interface gives the user full control over the operation of the device. In addition, the TWL-P-HS can be controlled via remote software through USB. Its polarization maintaining output and high wavelength and power stability make it a perfect solution as a seed laser for optical modulation and other test and measurement applications. Contact Optilab Sales for more information.

FEATURES

- Wavelength Scan up to 100 Hz
- 50 GHz (0.4 nm) Tuning Resolution
- Scan Rate up to 4000 nm/s
- Excellent Side Mode Suppression Ratio
- Light Weight: < 5.5 lbs. (2.5kgs)
- 7" LCD touchscreen
- Light Weight
- Wireless Control

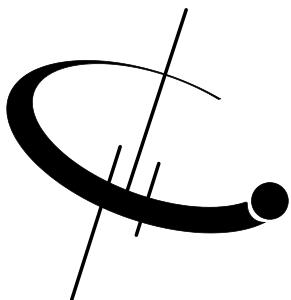
SOFTWARE

- Touchscreen Control – No PC Required
- Built-in Intuitive GUI
- Remote Control via USB

APPLICATIONS

- Laboratory Testing and Measurement
- In-Field Testing and Measurement
- DWDM Component Testing
- Seed Lasers for Modulators
- Fiber Optics Components
- Fiber Sensors





TWL-P-HS

SPECIFICATIONS

OPTICAL

Wavelength Range	1525 nm to 1564 nm typ.
Wavelength Tuning Step	50 GHz
Wavelength Scan Period	10 ms to 1000 ms
Scan Period Resolution	1 ms
Wavelength Scan Rate	4000 nm/s max.
Output Power	+13 dBm typ.
Linewidth	500 kHz max.
Side Mode Suppression Ratio	50 dB typ.
Relative Intensity Noise	-150 dB/Hz typ.
Frequency Stability	± 1 GHz typ.
Fiber Type	PM-1550
Optical Connector	FC/APC, Field Serviceable

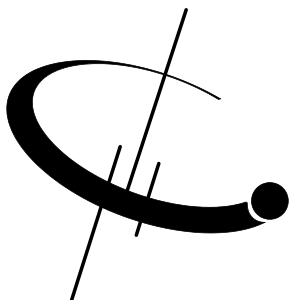
MECHANICAL

Operating Temperature	0 °C to +40 °C
Storage Temperature	-20 °C to +70 °C
Cooling	Passive
Dimensions (LxWxH)	290mm x 45 mm x 170 mm
Weight	< 2.5 kg
Housing	Injection Molded Aluminum

ELECTRICAL

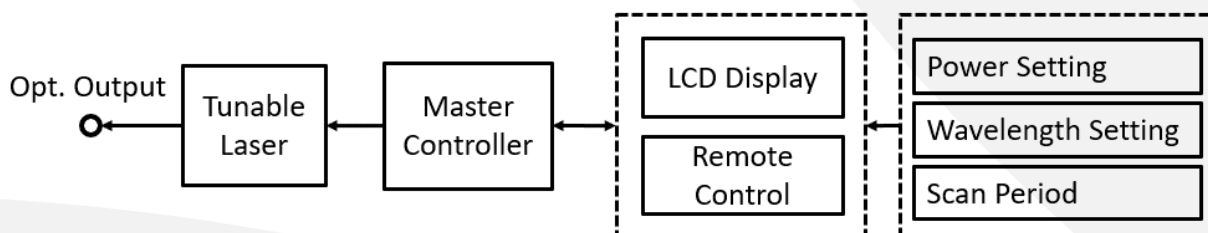
Power Supply	+5V DC External Power Adapter
Backup Battery	Lithium Ion
Display	7" LCD Touchscreen
Battery Life	3 hours Operation
Software	GUI Interface



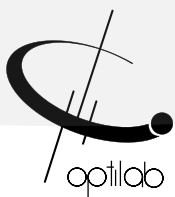
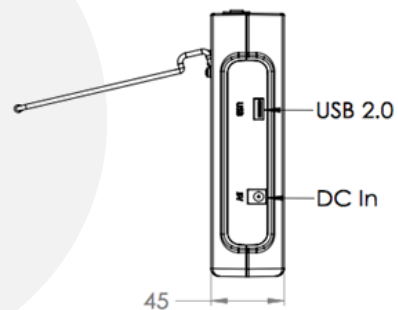
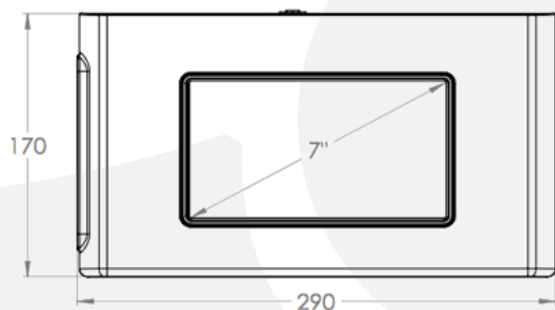
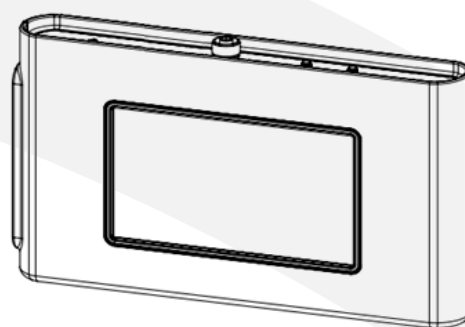
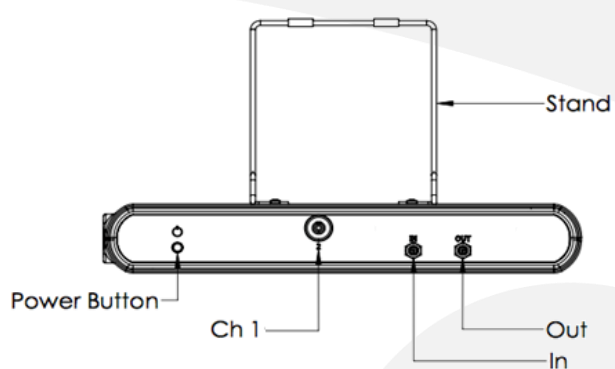


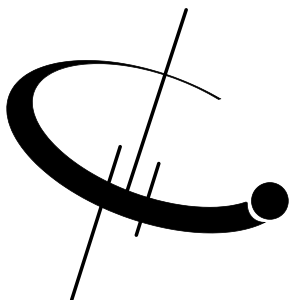
TWL-P-HS

FUNCTION
DIAGRAM



MECHANICAL
DRAWINGS



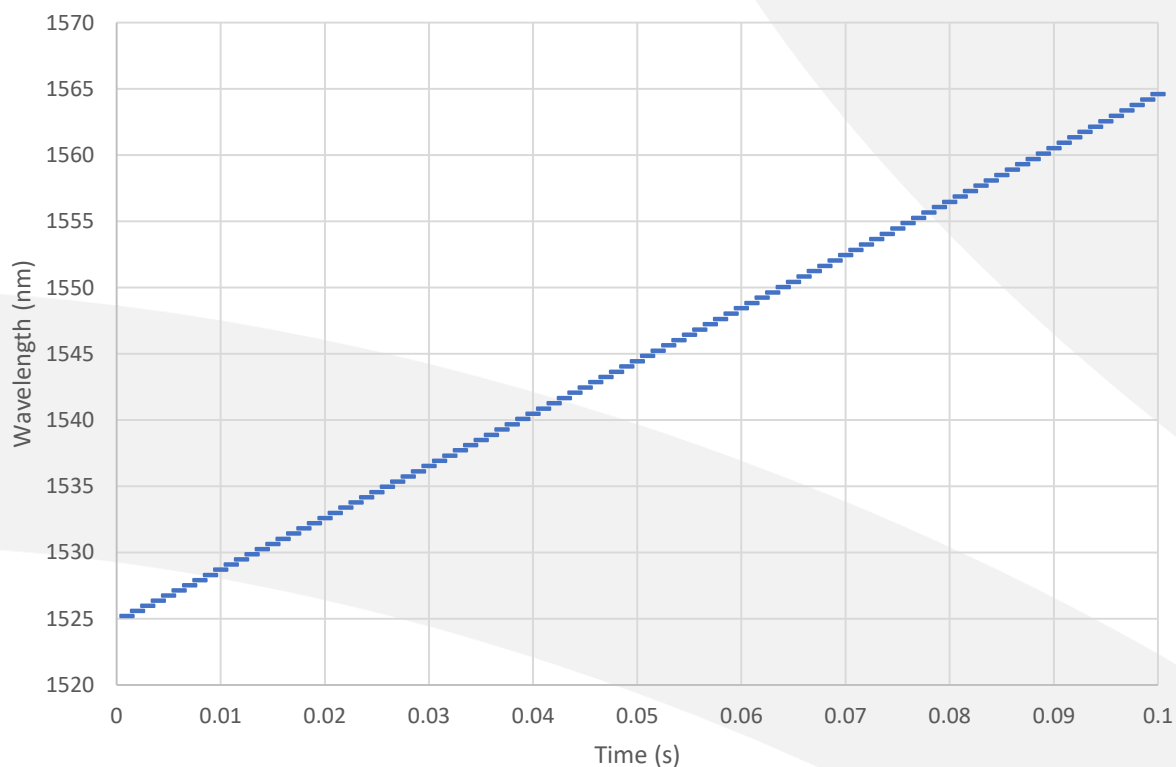


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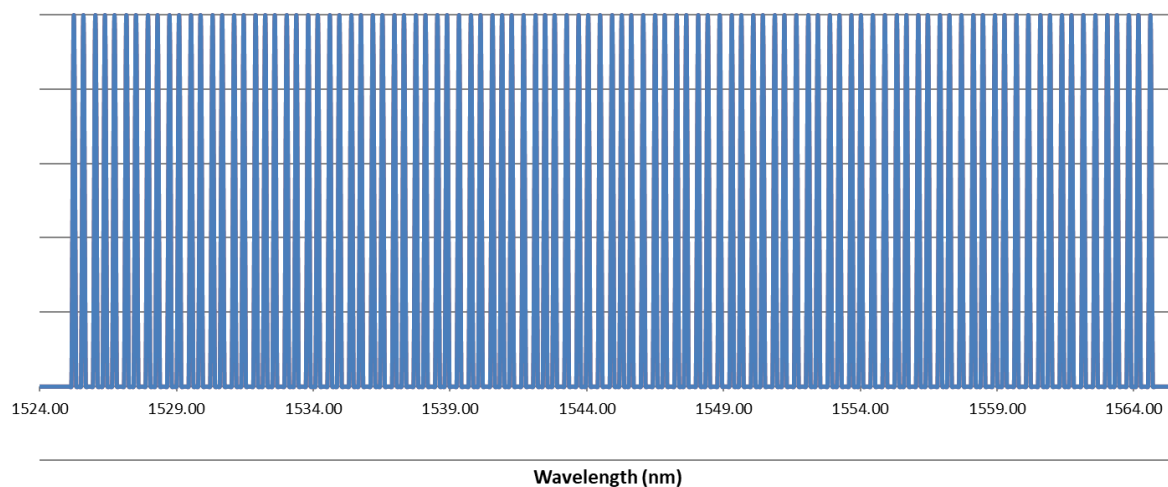


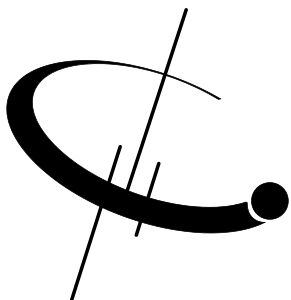
TEST DATA

Scan Result



Output Spectrum in Full Scan Mode





TWL-P-HS

SCREENSHOT

TWL-HS CW Mode Back

LD Current:	200 mA
Power:	13.20 dBm
Channel Number:	095 ITU: C11
Wavelength:	1568.77 nm
Fine Tuning:	<div></div>

Internal **TWL-HS Sweep Mode** Back

Start Channel:	00	H58
Wavelength:	1530.72 nm	
Stop Channel:	99	C09
Wavelength:	1570.42 nm	
Sweep Time:	100 ms	
LD Current:	200 mA	
Power Output:	12.75 dBm	

