

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

SOFTWARF

- 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
- Touchscreen Control No PC Required
- Built-in Intuitive GUI
- Remote Control via USB or Z-Link

APPLICATIONS

- Laboratory Testing and Measurement
- In-Field Testing and Measurement
- DWDM Component Testing

- Light Weight: < 5.5 lbs. (2.5kgs)
- 7" LCD touchscreen
- Wireless Control (Optional)

- Seed Lasers for Modulators
- Fiber Optics Components
- Fiber Sensors





TWL-P-HS

Specifications	Wavelength Range	1525 nm to 1564 nm typ.	
	Wavelength Tuning Step	50 GHz	
OPTICAL	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.	
	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	

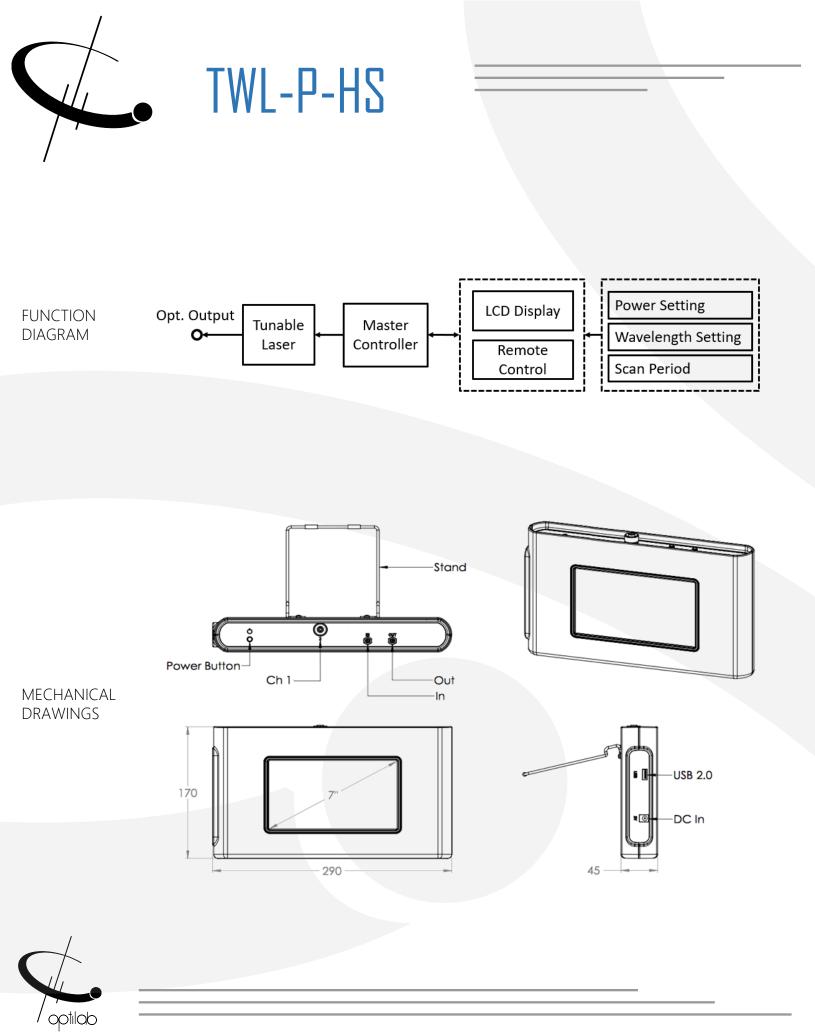
Operating Temperature 0 °C to +40 °C		
Storage Temperature -20 °C to +70 °C		
Cooling	Passive	
Dimensions (LxWxH)	290mm x 45 mm x 170 mm	
Weight	< 2.5 kg	
Housing	Injection Molded Aluminum	

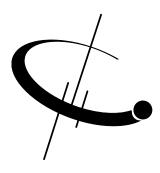
MECHANICAL

ELECTRICAL

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



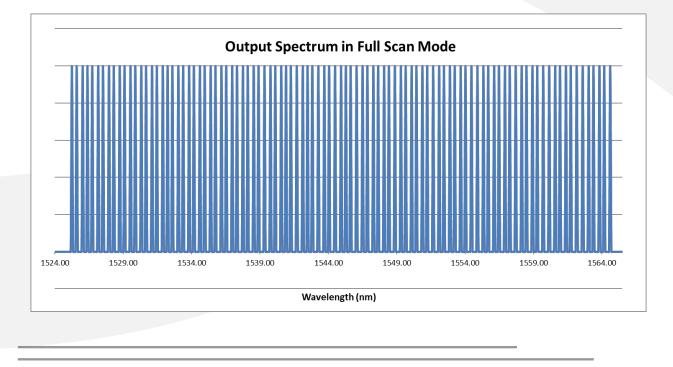




Scan Result 1570 1565 1560 1555 Wavelength (nm) 1550 1545 1540 1535 1530 1525 1520 0.01 0.04 0.05 0.06 0 0.02 0.03 0.07 0.08 0.09 0.1 Time (s)

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TEST DATA





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SCREENSHOT

TWL-P-HS

D Current:	200 mA
Power:	13.20 dBm
Channel Number:	095 ITU: C11
Wavelength:	1568.77 nm

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	L	
Power Output:	12.75 d	Bm	



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