

NEW

# Wavelength Selectable Laser WSL-110

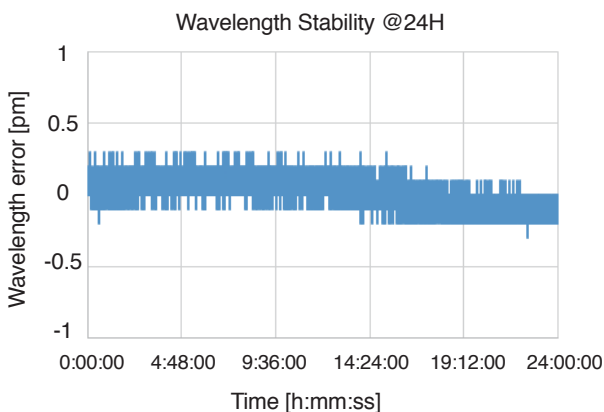
The WSL-110 is a compact and cost effective tunable laser source. Designed for use in fiber optic transmission testing, the WSL-110 can also be used for DWDM component evaluation and Coherent communications testing. C-band or L-band lasers are available, each covering a 38nm tuning range. The WSL-110 features Gridless tuning, allowing any wavelength to be accessed. An integrated wavelength locker ensures high wavelength accuracy and stability. This laser can be controlled either through the front panel or by using a GPIB interface, allowing full remote control and measurement automation.



## Features

- ▶ C-band or L-band tuning with high resolution
- ▶ Settable to any wavelength
- ▶ Fine tuning available with 1MHz resolution
- ▶ Narrow linewidth <100 kHz
- ▶ High output power >+15 dBm
- ▶ Integrated wavelength locker
- ▶ One or two ports per unit

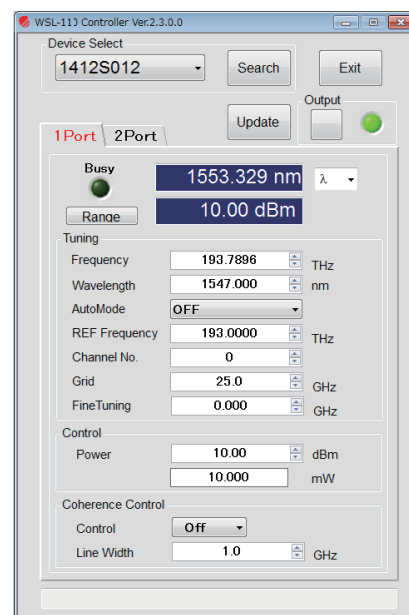
## Measurement data



## Applications

- ▶ Fiber optic transmission testing
- ▶ DWDM component testing
- ▶ Coherent communications / Local oscillator
- ▶ Optical amplifier testing

## Graphical user interface



## Specifications

Parameter	Unit	Gridless tuning	
		C-band	L-band
Wavelength Range	nm	1527.60 to 1565.50	1568.77-1608.76
Frequency Range	THz	191.50 to 196.25	186.35 to 191.1
Channel Spacing	GHz	25 (Any frequency is available.)	
Frequency resolution	MHz	100 (0.8 pm at 1550 nm)	
Frequency Accuracy to ITU grid	GHz	<±2.5 / ±1.0 (typ.)	
	pm	<±20 / ±8 (typ.)	
Frequency Repeatability to ITU grid *1	GHz	±0.25 (typ.)	
	pm	±2 (typ.)	
Frequency Stability to ITU grid @1hour *1	GHz	±0.25 (typ.)	
	pm	±2 (typ.)	
Fine tune resolution	MHz	1 (typ.)	
Fine tune range	GHz	±6	
Output power tuning range	dBm	9.5 to 15.5	8.5 to 14.5
Power Variation *2	dB	±0.2 (typ.)	
Power Stability @1hour *1, *2	dB	±0.01 (typ.)	
Linewidth	kHz	100 (typ.)	
Side mode suppression ratio (SMSR)	dB	>40 / 55 (typ.)	
Relative intensity noise *3	dB/Hz	-145 (typ.)	
Polarization extinction ratio *4	dB	20 (typ.)	
Optical output connector	-	FC/APC or SC/APC	
Interface	-	GP-IB, USB	
Operating Temperature	°C	15 to 35	
Operating Humidity	%	< 80	
Voltage	V	AC 100-240 V (±10 %)	
Frequency	Hz	50/60	
Dimensions (Width x Depth x Height)	mm	210 x 300 x 80	
Weight	kg	3	

\*All specifications are quoted after 1 hour warm-up period.

\*1: At constant temperature ± 0.5 K.

\*2: Measured by fiber with angled polished connector.

\*3: 10 MHz to 3 GHz

\*4: SLOW axis, angle accuracy <10 deg

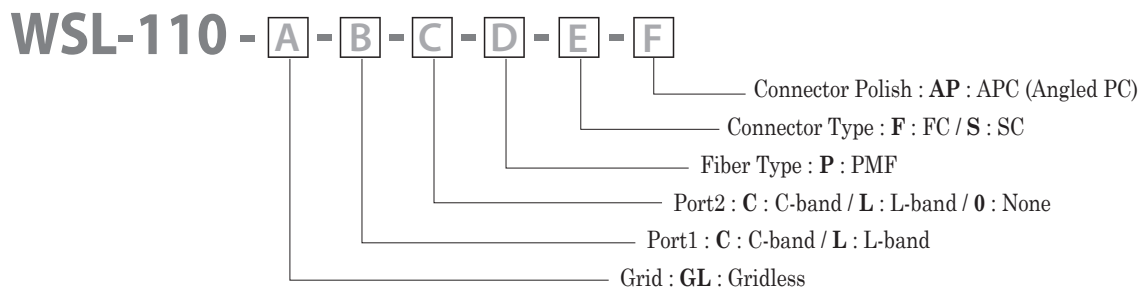
## Laser safety information



This product is classified class 1M laser product according to IEC 60825-1 (2007).

This product complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50 dated June 24, 2007.

## Ordering Code



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