

[OEBS-TLS-STD]

Tunable Laser Sources

Features:

- Narrow linewidth
- High SMSR
- Wide tuning range
- Linear wavelength tuning
- User-friendly interface



OEBS-TLS-STD, Electrical version

Applications:

- Interrogation systems
- Laboratory Test and measurements
- Biomedical applications
- Research and development



OEBS-TLS-STD, Manual version

Product description:

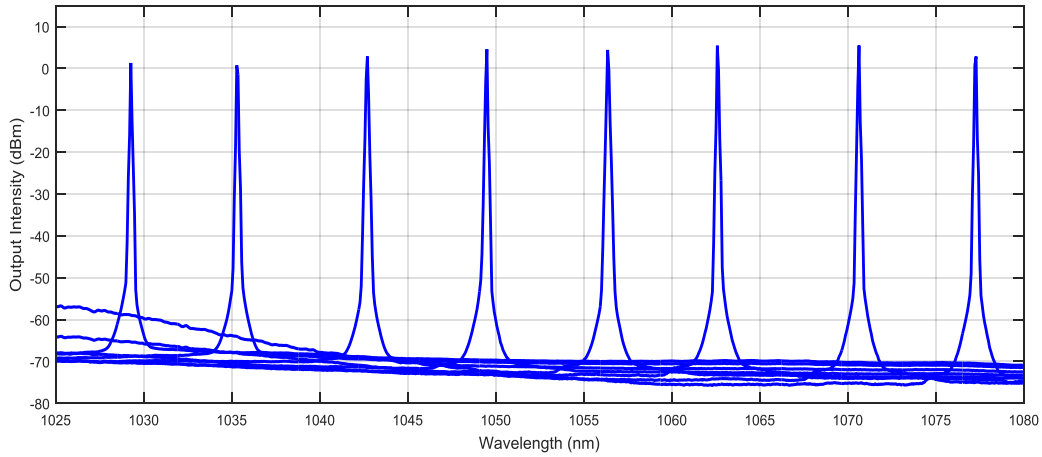
The tunable Laser sources can perform continuous scanning over up to 90 nm tuning range at various center wavelengths from 780 to 3000 nm range. Both manual and electrical tuning versions are available. In electrical version, the laser is controlled by a computer with a user-friendly interface through the USB port. This compact, rugged laser provides high side-mode suppression ratio (SMSR) and excellent linear wavelength-scanning, which is a cost-effective solution for system integration applications as well as laboratory purposes.

Parameter	Unit	OEBS-TLS-STD		
Center wavelength	nm	785 ± 5	850 ± 5	950 ± 5
Tuning Range	nm	40		
Wavelength resolution	pm	~ 10		
Wavelength repeatability	pm	± 30		
Wavelength stability	pm	<± 50		
Output power*	mW	>5		
Output bandwidth	pm	< 50		
SMSR	dB	Linear or Random		
Output polarization state	-	> 50		
Interface (E Version)	-	USB		
Operation Temperature	°C	10 - 60		
Dimensions	mm ³	70 x 190 x 310		

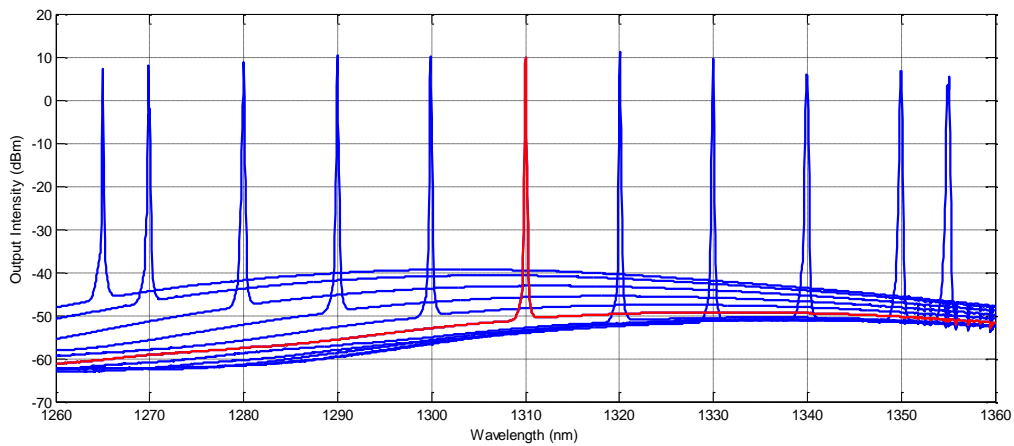
Parameter	Unit	OEBSL-TLS-STD			
Center wavelength	nm	1060 ± 10	1100 ± 10	1200 ± 10	1310 ± 10
Tuning Range	nm	Up to 80	Up to 70	Up to 60	Up to 80
Wavelength resolution	pm	~ 10	~ 10	~ 10	~ 10
Wavelength repeatability	pm	± 20	± 20	± 20	± 20
Wavelength stability	pm	<± 30	<± 30	<± 30	<± 30
Output power	mW	> 5	> 5	> 10	> 5
Output bandwidth	pm	< 50	< 50	< 50	< 50
SMSR	dB	> 60	> 50	> 50	> 50
Output polarization state	-	Linear or Random			
Interface (E Version)	-	USB			
Operation Temperature	°C	10 - 60			
Dimensions	mm ³	70 x 190 x 310			

Parameter	Unit	OEBSL-TLS-STD			
Center wavelength	nm	1400 ± 10	1550 ± 10	1600 ± 10	
Tuning Range	nm	Up to 60	Up to 90	Up to 60	
Wavelength resolution	pm	~ 10	~ 10	~ 10	
Wavelength repeatability	pm	± 20	± 20	± 20	
Wavelength stability	pm	<± 30	<± 30	<± 30	
Output power	mW	> 10	> 10	> 10	
Output bandwidth	pm	< 60	< 50	< 60	
SMSR	dB	> 50	> 60	> 50	
Output polarization state	-	Linear or Random			
Interface (E Version)	-	USB			
Operation Temperature	°C	10 - 60			
Dimensions	mm ³	70 x 190 x 310			

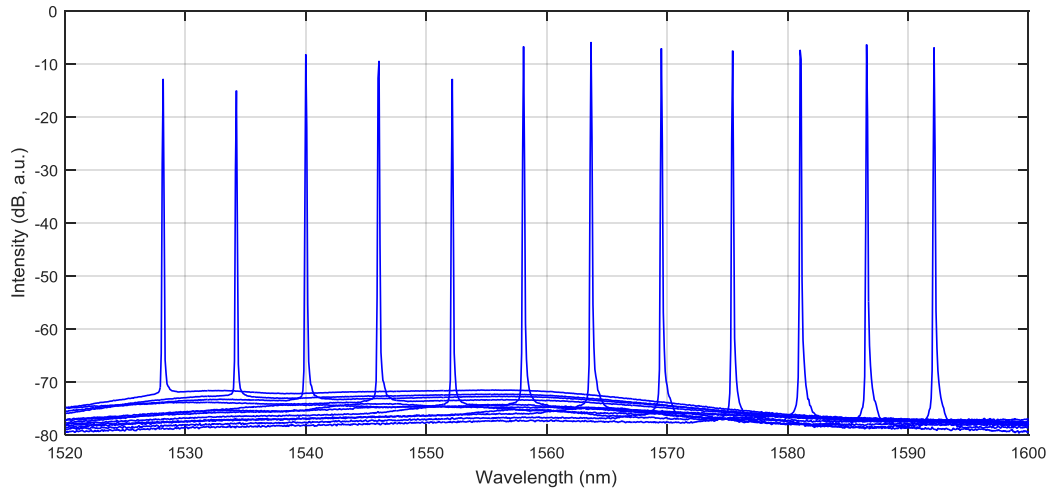
Parameter	Unit	OEBSL-TLS-STD		
Center wavelength	nm	2000 ± 20	2200 ± 20	2750 ± 5
Tuning Range	nm	Up to 90	Up to 70	Up to 40
Wavelength resolution	pm	~ 10	~ 10	~ 50
Wavelength repeatability	pm	± 20	± 20	± 50
Wavelength stability	pm	<± 30	<± 30	<± 50
Output power	mW	> 20	< 20	< 20
Output bandwidth	pm	< 50	< 70	< 100
SMSR	dB	> 50	> 40	> 40
Output polarization	-	Linear or Random		
Interface (E Version)	-	USB		
Operation Temperature	°C	10 - 60		
Dimensions	mm ³	70 x 190 x 310		



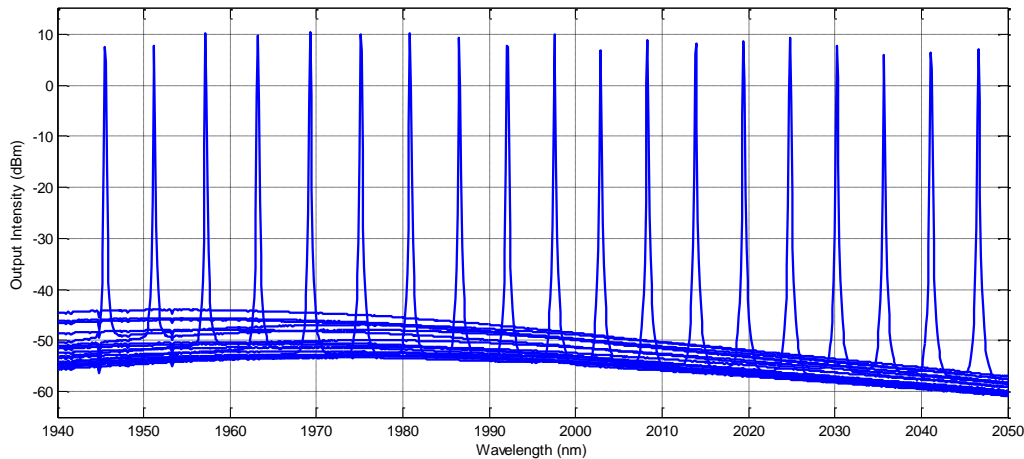
Output spectrum of OEBS-TLS-STD at 1060 nm



Output spectrum of OEBS-TLS-STD at 1310 nm

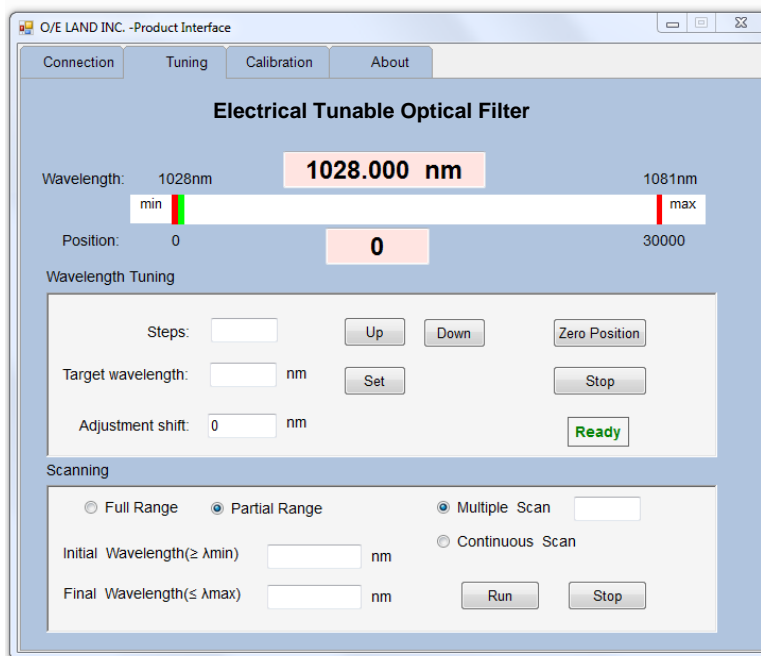


Output spectrum of OEBS-TLS-STD at 1550 nm



Output spectrum of OEBS-TLS-STD at 2000 nm

Both manual and electrical versions have the same specifications. In manual version, a knob is used to change the wavelength, while in electrical version tuning is controlled by an interface. The main windows of the interface in electrical version looks like the following figure, where user can easily set the target wavelength or scan (single or continuous) between two specified wavelengths:



Ordering number:

OEBS-TLS-STD-WL-TR-P-Pol- Type:	WL	TR	P	Polarization	Type
	Wavelength (nm)	Tuning range (nm)	Power (mW)	R: Random L: Linear	E: electrical M: manual
Example:	OEBS-TLS-STD-1550-60-20-L-E				