

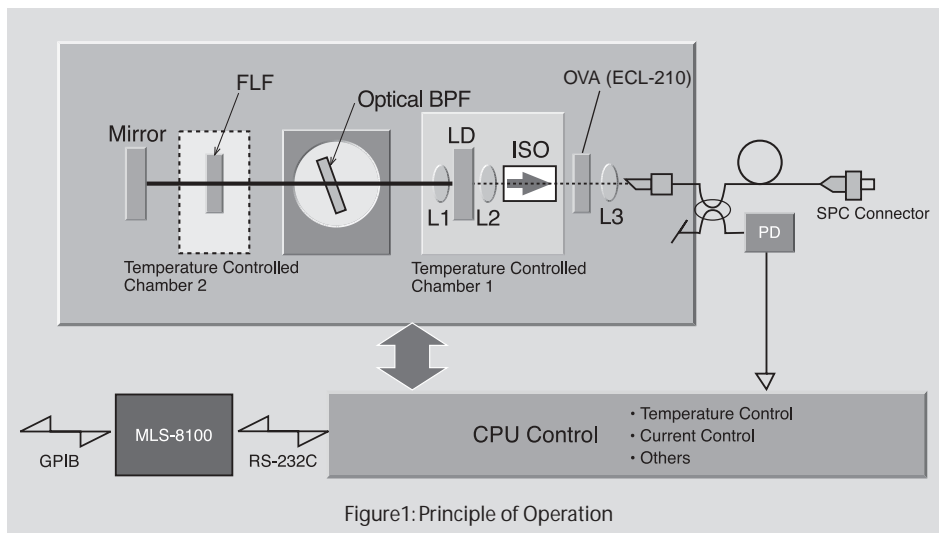


Multi-channel Tunable Lasers **ECL-210**



The ECL-210 provides a rack-mounted, multi-channel solution that caters specifically to the needs of both DWDM production and research engineers. The ECL-210 offers excellent long term wavelength and power stability in conjunction with notably high output power. Each unit has a wide tuning range of more than 100 nm which is selectable in the ranges 1270 ~ 1350 nm and 1430 ~ 1630 nm. In addition, Santec's unique tuning mechanism enables any wavelength within the specified tuning range to be easily and accurately selected.

The ECL systems share many standard features that include Automatic Power Control, fine-tuning wavelength control, coherence control, and a GPIB/RS-232C interface with drivers for LabVIEW™ and Visual Basic™.



Features

- ▶ Wide tuning range over 100nm
- ▶ High power (>10mW typ.)
- ▶ 1.3μm, 1.4μm range available

Output Power

Wavelength	Normal (mW)	High Power Option
Peak	>8	>10
40nm	>6	>7
80nm	>4	>5
100nm	>3	>4

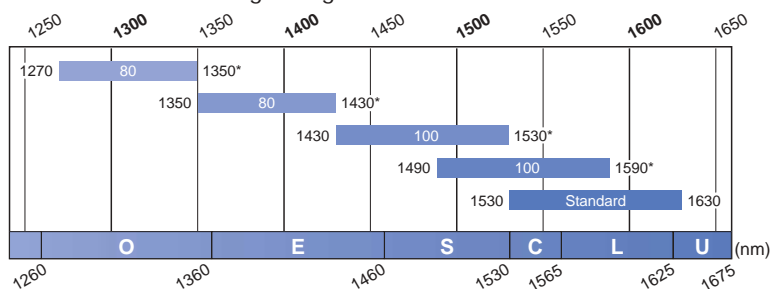
CP-10E Control Pad

The ECL lasers feature a simple, easy-to-use front panel interface. The CP-10E offers additional control, providing full support of all functions in a compact handheld unit.



Wavelength Selection

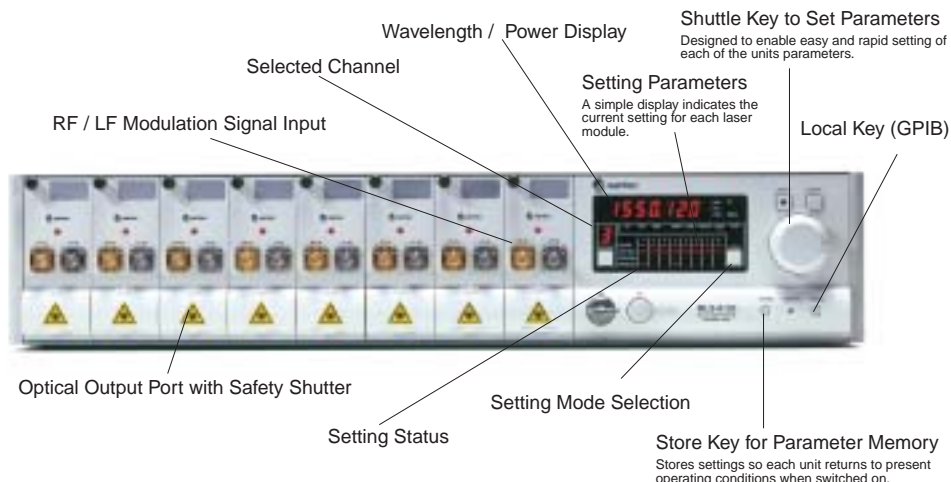
Ask us for other wavelength range.



Wavelength	Available Range	High Power Option
*1270 - 1350	80nm	none
*1350 - 1430	80nm	none
*1430 - 1530	100nm	none
*1490 - 1590	100nm	yes
1530 - 1630	100nm	yes

* For certain wavelengths below 1500nm performance may not meet specification due to OH absorption.

MLS-8100 (max 8ch loading)/ MLS-2100 (max 2ch loading) is a rack supplying power to ECL-210. MLS-8100/2100 can control ECL-210 by direct operation to the front panel and via GPIB/RS-232C communication from the outside. Easy operations enable you to obtain high power and excellent stability.



■ Specifications

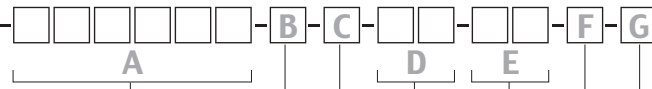
Category	Parameter	Unit	Specification	Notes
Wavelength Characteristics	Tuning Range	nm	-	Refer to "Wavelength Selection"
	Resolution	nm	<0.024	Refer to "Wavelength Selection"
	Accuracy	nm	<±0.1	0.024nm + fine tuning
	Repeatability	nm	<±0.01	N=50 /Measured at center wavelength
	Stability	nm	<±0.01	After a warm-up 1h/1hour /at center wavelength by wavemeter
	Fine Tuning Range	GHz	200	
Power *1	Output Power	mW	-	Refer to "Output Power"
	Accuracy	%	5	
	Repeatability	dB	<±0.01	N=50 /Measured at center wavelength /at 6dBm
	Stability	dB	<±0.01	After a warm-up 1h/1hour /APC mode / by fiber with APC
	APC Flatness	dB	<±0.2	
Environmental Conditions	Built in Attenuator Option	dB	0 to 20	Resolution 0.04dB (Typ.)
	Operating Temp. Range	°C	15 to 35	
	Operating Humidity Range	%	<80	non condensing
	Storage Temp. Range	°C	10 to 40	
Spectrum	Storage Humidity Range	%	<80	non condensing
	Recommendation Calibration Period	Year	1	
	Spectrum Line Width (Coh. OFF)	MHz	<0.2	Measured at center wavelength
	Spectrum Line Width (Coh. ON)		200(Typ.)	Variable /Measured at center wavelength
	SSR	dB	>50	Measured at center wavelength
RIN	dB	>145	Measurement Freq. <1GHz	
Interface	Optical Connector	-	FC or SC	
	Optical Fiber	-	SMF or PMF	
	Connector Polish	-	SPC or APC	
	GP-IB & RS-232C	-	Yes	It is in a MLS. (IEEE-488) *2
Modulation	LF modulation	KHz	DC-10	
	(RF Modulation option)	MHz	1-100	at 3dB Down
Dimensions	Width x Height x Depth	mm	35x85x350	1ch
	Weight	kg	0.5	

*1 For certain wavelength below 1500nm performance may not meet specification due to OH absorption.

*2 MLS-8100/2100 is a power supply unit for ECL-210.

■ Ordering Code

ECL-210



Wavelength 530630: 1530~1630nm 270350: 1270~1350nm 350430: 1350~1430nm
 430530: 1430~1530nm 490590: 1490~1590nm
 Fiber S: SMF P: PMF
 Connector F: FC S: SC
 Connector Polish SP: SPC AP: APC
 Modulation 00 : LF modulation (Standard for ECL-210)
 RF : RF modulation
 Power 0: Normal Power H: High Power
 Control Pad
 0: None C: Control pad

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