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Data Sheet

August 13, 2026

SANTEC

Santec MLS-8000 Multi-Channel Light Source Mainframe

Key Features - 19-inch mainframe, maximum 8 ECL-200 modules - GPIB interface - 10-turn potentiometer wavelength adjustment, resolution less than 0.024 nm - Key-lock enable of LD output - ECL-200: greater than 100 nm OBPF range; fine tune via grid filter (~0.8 nm period, 10 GHz class) - Related 2-channel rack: MLS-2100; ECL-210 uses MLS-8100/MLS-2100 Technical Specifications Model: MLS-8000 Manufacturer: Santec Instrument Type: Multi-Channel Light Source Mainframe Series: MLS / ECL multi-channel tunable sources Alias: MLS-8000; MLS 8000; MLS8000 Form Factor: 19 inch rack power source Maximum Modules: 8 ECL-200 tunable laser modules Module Powered: ECL-200 supplied by MLS-8000 (max 8 ch) Wavelength Adjustment: 10-turn potentiometer Resolution Mainframe Listing: less than 0.



MODEL	CALIBRATION
Santec MLS-8000	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
MLS-8000	https://aumictechlabs.com/products/mls-8000-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Santec MLS-8000 is a rack-mountable mainframe designed to house and control up to eight optical light source modules, such as the ECL-200 and ECL-210 series. It has a stable, low-noise power source and integrated control platform for multi-channel optical testing and measurement applications. The unit features dual communication interfaces GPIB and RS-232C - enabling

external instrument control and system integration. A dedicated communication CPU board manages all installed light source modules. The 19-inch rack-mountable chassis weighs approximately 20 kg and incorporates switchable power voltage selection via rear panel rotary switch. A key-lock power activation mechanism and front panel handles provide operational control. Each module slot supports independent wavelength adjustment through 10-turn potentiometers or dials, with dedicated status indicators for ACC/APC modes and LD activation states.

Technical Specifications

Chassis capacity: Up to 8 optical light source module slots

Supported modules: Santec ECL-200, ECL-210 series

Power source: Low-noise, switchable voltage via rear panel rotary switch

Physical form factor: 19-inch rack-mountable

Weight: Approximately 20 kg

Rear clearance requirement: Greater than 5 cm for heat dissipation

Recommended installation: Vibration-proof base

Power input: 3-line cord with protective ground

Key Features

Dual communication protocols: GPIB and RS-232C

Communication CPU board for external control

Independent wavelength adjustment per module via 10-turn potentiometers

Front panel ACC/APC mode and LD activation status indicators

Key-lock power activation

Switchable power voltage selection

Typical Applications

Multi-wavelength optical testing systems

Fiber optic component characterization

Optical network validation and troubleshooting

Laboratory-scale photonics research

Compatibility & Integration

The MLS-8000 integrates with Santec ECL-200 and ECL-210 series light source modules. External control via GPIB and RS-232C enables integration into automated test systems and measurement platforms.

Features & description

From manufacturer datasheet

Features

- 19-inch mainframe, maximum 8 ECL-200 modules
- GPIB interface
- 10-turn potentiometer wavelength adjustment, resolution less than 0.024 nm
- Key-lock enable of LD output
- ECL-200: greater than 100 nm OBPF range; fine tune via grid filter (~0.8 nm period, 10 GHz class)
- Related 2-channel rack: MLS-2100; ECL-210 uses MLS-8100/MLS-2100

MLS8000 Characteristics / Specifications

PARAMETER	VALUE
Model	MLS-8000
Manufacturer	Santec
Instrument Type	Multi-Channel Light Source Mainframe
Series	MLS / ECL multi-channel tunable sources
Alias	MLS-8000; MLS 8000; MLS8000
Form Factor	19 inch rack power source
Maximum Modules	8 ECL-200 tunable laser modules
Module Powered	ECL-200 supplied by MLS-8000 (max 8 ch)
Wavelength Adjustment	10-turn potentiometer
Resolution Mainframe Listing	less than 0.024 nm
Remote Interface	GPIO
ECL200 Tuning Range	greater than 100 nm by turning OBPF
ECL200 Fine Resolution	less than 0.01 nm by adjusting frequency lock filter temperature
ECL200 Fine Control	FINE electronic control of temperature-controlled grid filter
Grid Filter Period	transmission peaks with period 0.8 nm
Fine Tuning Range Family	200 GHz class / 1.6 nm typ on related ECL-210 table
ECL200 Linewidth Typical	150 kHz (quick-start; coherence control off)
Coherence Control	adjusts linewidth for sensor/reflection applications
ECL200 APC	automatic power control
Ship Weight Listings	35 lb or 40 lb depending on listing
Related Two Slot Rack	MLS-2100 maximum 2 ch (ECL-200 or ECL-210)
ECL210 Rack	MLS-8100 maximum 8 ch / MLS-2100 maximum 2 ch
Safety	semiconductor laser; key-lock on MLS-8000
Manual Wavelength	ECL-200 may require OSA to set wavelength/power
Module Width Family	ECL plug-in (ECL-210 listed 35 × 85 × 350 mm excluding projection)

PARAMETER	VALUE
Product Family Codes	MLS-8000, ECL-200, ECL200
Interlock	key into MLS-8000 key-lock before LD enable
Drivers Family	LabVIEW and Visual Basic cited on ECL family pages Notes Specs from Santec MLS-8000/ECL-200 manuals and listings. MLS-8000 is the mainframe, not a laser by itself. Confirm installed ECL-200 band, connector polish, and GPIB address. ECL-210 is a different electronically tuned module for MLS-8100.
ECL-200	greater than 100 nm OBPF range; fine tune via grid filter (~0.8 nm period, 10 GHz class)
Related 2-channel rack	MLS-2100; ECL-210 uses MLS-8100/MLS-2100
Linewidth	Typical: 150 kHz (quick-start; coherence control off)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	MLS-8000
Manufacturer	Santec
Instrument Type	Multi-Channel Light Source Mainframe
Series	MLS / ECL multi-channel tunable sources
Alias	MLS-8000; MLS 8000; MLS8000
Form Factor	19 inch rack power source
Maximum Modules	8 ECL-200 tunable laser modules
Module Powered	ECL-200 supplied by MLS-8000 (max 8 ch)
Wavelength Adjustment	10-turn potentiometer
Resolution Mainframe Listing	less than 0.024 nm
Remote Interface	GPIB
ECL200 Tuning Range	greater than 100 nm by turning OBPF
ECL200 Fine Resolution	less than 0.01 nm by adjusting frequency lock filter temperature
ECL200 Fine Control	FINE electronic control of temperature-controlled grid filter
Grid Filter Period	transmission peaks with period 0.8 nm
Fine Tuning Range Family	200 GHz class / 1.6 nm typ on related ECL-210 table
ECL200 Linewidth Typical	150 kHz (quick-start; coherence control off)
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Ship Weight Listings	35 lb or 40 lb depending on listing
Related Two Slot Rack	MLS-2100 maximum 2 ch (ECL-200 or ECL-210)
ECL210 Rack	MLS-8100 maximum 8 ch / MLS-2100 maximum 2 ch
Safety	semiconductor laser; key-lock on MLS-8000
Manual Wavelength	ECL-200 may require OSA to set wavelength/power
Module Width Family	ECL plug-in (ECL-210 listed 35 x 85 x 350 mm excluding projection)
Product Family Codes	MLS-8000, ECL-200, ECL200

PARAMETER	VALUE
Interlock	key into MLS-8000 key-lock before LD enable
Drivers Family	LabVIEW and Visual Basic cited on ECL family pages

Notes

Specs from Santec MLS-8000/ECL-200 manuals and listings. MLS-8000 is the mainframe, not a laser by itself. Confirm installed ECL-200 band, connector polish, and GPIB address. ECL-210 is a different electronically tuned module for MLS-8100.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.