

Broadsweeper BS-930-1-HP with Extended Wavelength-Tuning Range

1. Technical Specification¹:

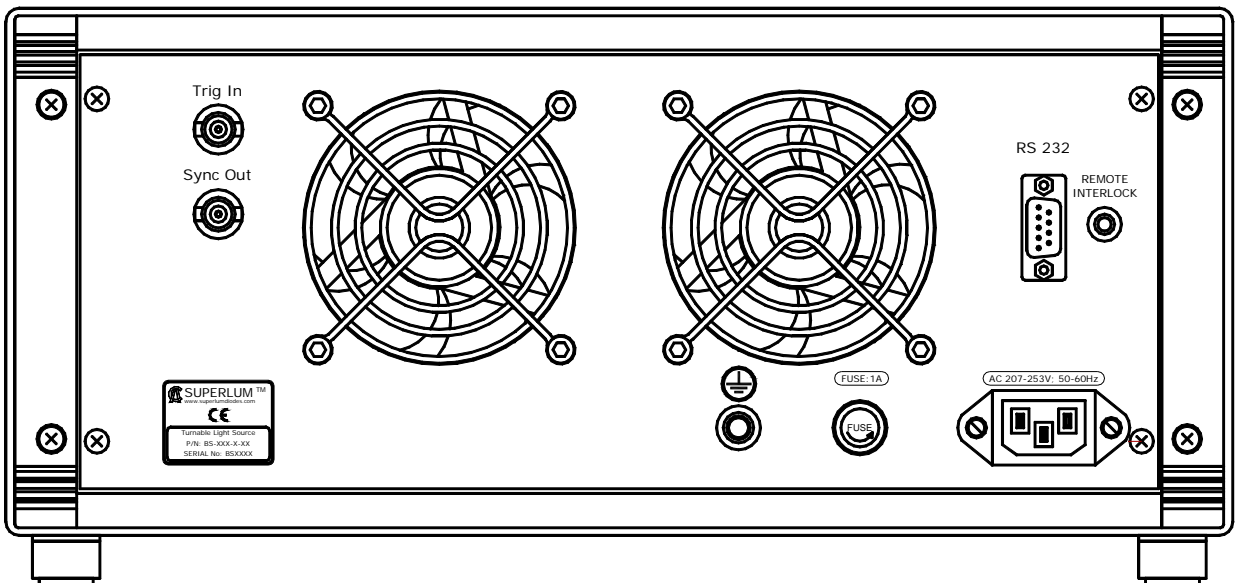
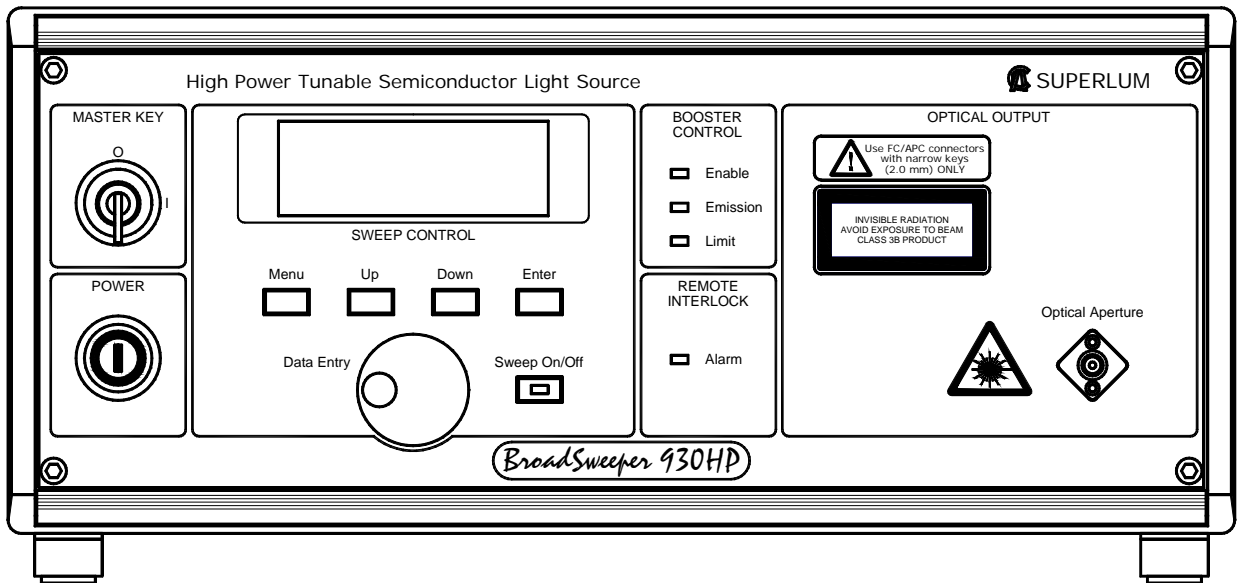
Laser Cavity Type	All-fiber ring cavity with the blocked ASE-pedestal output
Intracavity Spectrally Tunable Element	Ultra narrow bandpass quasi-collinear AOTF (FWHM = 0.28 nm(@ 930 nm))
Full Wavelength Tuning Range	130 nm (880 ± 2 nm to 1010 ± 2 nm)
Minimum Wavelength Tuning Range²	5 nm
Wavelength Adjustment Step	0.05 nm
Output Wavelength Repeatability	±10 pm
Sweep Speed Range	2 nm/s to 10000 nm/s
Sweep Speed Adjustment Step	10 nm/s @ 10-10000 nm/s 1 nm/s @ 2-10 nm/s
Output Power, Laser Source/Power Booster	1 mW / 15 mW
Output Power Adjustment	External, By using an external variable optical attenuator ³
Fiber Connection Between Laser Source and Power Booster⁴	Undetachable, Integrated into the device enclosure
Optical Power vs. Wavelength Flatness Dependence, for the full wavelength tuning range	<1.7 dB
Output Power Stability⁵	< 0.5%
Spectral Linewidth	<0.1 nm
Signal-to-ASE Excess, at the booster's output	20 dB @ 15 mW
Polarization Extinction Ratio	>18 dB (20 dB typ.)
Optical Fiber Type	Corning PANDA PM 850
Polarization Orientation in the Output Fiber	Slow axis, Aligned with the connector key
Output Optical Connector	FC/APC type with the narrow key (2.0 mm)
Operating Modes	Manual, Automatic, External, Modulation
2-Wavelength Switching Frequency	0.1/0.2/0.5/1/2/5/10/20/50/100/200/500/1000 Hz
I/O Interface⁶	RS-232
Operating Temperature Range	+15 °C to + 30 °C
Storage Temperature Range	0 °C to +40 °C
Power Requirements⁷	110 VAC or 220 VAC, 50 Hz or 60 Hz
Power Consumption	20 W
Warm-up Time	10 min
Continuous Operation⁸	16 hrs/day
Outline Dimensions (W × H × D)	257 × 170 × 325 mm
Approximate Weight	9 kg
Warranty	12 months

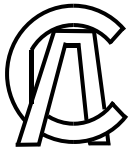


NOTES:

- 1 ALL SPECIFICATIONS ARE QUOTED AFTER 1HR WARM-UP PERIOD AT A ROOM TEMPERATURE OF 22 ± 2 °C.
- 2 SELECTABLE BY THE USER WITHIN THE FULL WAVELENGTH TUNING RANGE.
- 3 NOT SUPPLIED WITH THE INSTRUMENT.
- 4 INACCESSIBLE FOR THE USER TO DISCONNECT.
- 5 DURING 3 HOURS.
- 6 MALE CONNECTOR WITH DTE PIN FUNCTIONS.
- 7 YOUR LOCAL OPERATING VOLTAGE SHOULD BE SPECIFIED WHEN PLACING THE ORDER.
- 8 FOR THE VERSION WITH THE PROLONGED OPERATIONAL TIME (UP TO ROUND-THE-CLOCK OPERATION), PLEASE CONTACT SUPERLUM BEFORE PLACING THE ORDER.

2. Front and Rear Panels of the Instrument





3. Accessories Supplied

The below table is a list of accessories supplied with 1 pc. of the instrument.

Item	Qty
Fiber patch cable of 1 m long for the device's optical output	1 pc.
Key for the device's master control	2 pcs.
Remote interlock connector (supplied inserted in the rear-panel socket of the device)	1 pc.
AC power cord	1 pc.
RS-232 null-modem cable	1 pc.
CD with the user's manual and Superlum's companion software	1 pc.
Acceptance Test Report (printed version)	1 pc.