

91367 SL2200 Compact Monitor



Summary

The Ultraview SL™ 2200 is a compact monitoring system with a 10.4-inch resistive touchscreen display. Dual-battery slots allow this monitor to be used in transport, as well as at the bedside. The SL2200 includes one single-high module slot that is compatible with all Spacelabs modules. When used with the 91493 Integrated Module Housing (IMH), two additional parameter modules are supported.

Features

User Interface All controls are on-screen touch keys, with the exception of the power (ON/OFF) key; optional controls include mouse, keyboard, and remote control

Display Color thin film transistor (TFT) resistive touchscreen liquid crystal display (LCD)

Resolution
640 × 480 pixels

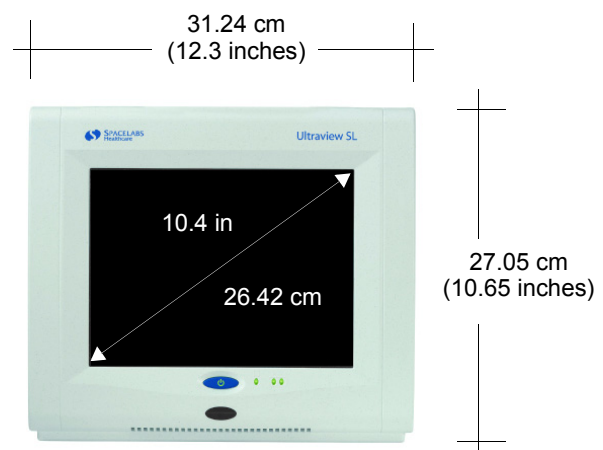
Size
21.11 cm (8.31 inches) wide
15.85 cm (6.24 inches) high

Trace Height
4.2 cm (1.65 inches)
6 cm (2.36 inches)

Sweep Speed
A variety of speeds are available under module control

Parameter Capacity Provides three times the number of waveforms purchased, up to a maximum of 12 parameters

Alarm Limit Review Provides a snapshot view of bedside alarm limits for all active parameters; this feature is only available with specific Ultraview SL modules



Depth: 16.51 cm (6.5 inches)
Weight: 5.5 kg (12.1 pounds) with two batteries and recorder

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Trends

Graphic 1-, 2-, 6-, 12-, or 24-hour segments; data is stored in 1-minute resolution

Tabular Time increments of 1, 5, 10, 15, or 30 minutes; 1, 1.5, or 3 hours

Power An external direct current (DC) power supply provides power to the monitors and up to three Flexport[®] system interfaces

Advanced Power Management

Maximizes battery performance during transport; includes battery “fuel-gauge”

Connectors Three standard USB 1.1 connectors (keyboard, mouse or barcode scanner), synchronous data link control (SDLC for Flexport systems or module housings), RJ45 (10/100BaseT Ethernet), remote alarm light, VGA output (video), RS-232 serial connector

Network Communication

10/100 BaseT modular connector (RJ45) provided; wireless is

optional; will send data, including all available waveforms and numerics, to the Ultraview SL network

Barcode Scanner Support

Provides support for using third-party ~~USB-powered~~ barcode scanners; ~~for entering patient-demographic data into a patient's Admit Record (limited to 128 ASCII characters); this feature is only available in the bedside mode.~~ ~~USB-powered~~ barcode scanners must be purchased from the manufacturer

Options

03 Three display zones

04 Four display zones

D Perioperative; provides customizable, user-specific display setups and start case/end case functions

Note The SL2200 does not support the 91388 Remote Display Controller.

N Vital Signs Calculations (Hemodynamics, Oxygenation, Ventilation, and Renal)

O Drug Dose Calculations

Q Data Shuttle[®] (for use with selected modules only) supports transfer for up to 24 hours of the database from the monitor, including continuous and episodic events, and trend information for all parameters monitored by modules and Flexport system interfaces

R Patient Data Logger; presents an ASCII data stream of patient name and vital sign data to the serial port in a pre-defined format

U Dual Channel Internal Recorder

Printing Method Thermal array print head

Resolution Eight dots per mm (vertical) and 32 dots per mm (horizontal) at 25 mm per second sweep speed

Paper Heat-sensitive roll of paper, 50 mm wide × 30 m long

Prints Manual and automatic alarm recordings for waveforms and vital sign data, trends, calculations; full annotations are included

Frequency Response Determined by the parameter recorded

Paper Speed 1.56, 3.12, 6.25, 12.5, 25, and 50 mm per second (depending on the monitor sweep speed selected)

Alarm Record Records any parameters in an alarm state when alarm recording is active

Auto Run 20 seconds or duration of alarm violation (whichever is longer)

Controls CONVERT TO CONTINUOUS, STOP RECORDING, SLOW ON/OFF, PRINTER ON/OFF

Indicators Paper out, unit off

Record Enables selection of up to two active monitor channels plus trends

X Wireless Ethernet Communication; provides 802.11a/b/g wireless ethernet with WEP, WPA, and WPA2 security; requires site qualification survey to ensure adequate performance

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Z Wireless Ethernet Communication; provides

802.11b wireless ethernet with WEP security; requires site

qualification survey to ensure adequate performance

Product Specifications

Classification

MDD Class IIb
EN 60601-1

Class 1 Requires outlet with safety ground (Protective Earth) conductor. Rated for continuous operation.

CISPR11, Group 1, Class B Suitable for use in domestic establishments connected to a low-voltage supply network

Electrical Specifications

Mains Power 100 to 240 VAC, 50 to 60 Hz, 2 A

Batteries One or two 12-volt (2.45 Ah NiMH) batteries may be used, providing 2.5 to 4 hours of operation with two batteries (TFT display), depending on monitor

configuration and setup, for up to 600 charge/discharge cycles; operating time is dependent on configuration and usage; 2 hours are required to charge batteries to 100% of capacity with AC connected and the monitor powered OFF; 3-hour

charge time required with monitor powered ON.

Isolation Chassis leakage current meets AAMI, UL 60601-1, CSA Std. C22.2 No. 601.1, and IEC 60601-1 standards

Physical Dimensions

Height
27.05 cm (10.65 inches)

Depth
16.51 cm (6.5 inches)

Width
31.24 cm (12.3 inches)

Weight
5.5 kg (12.1 pounds) with two batteries and recorder

Environmental Requirements

Storage
Temperature
-25° to 60° C (-13° to 140° F)

Humidity
95% (non-condensing)

Altitude
0 to 12,192 meters
(0 to 40,000 feet)

Operating
Temperature
0° to 50° C (32° to 122° F)

Humidity
95% (non-condensing)

Altitude
0 to 4,572 meters
(0 to 15,000 feet)

Electromagnetic Compatibility

EN 60601-1-2: 2001
Emissions (CISPR 11)
EN 55011, Class B
EN 61000-3-2
Harmonics
EN 61000-3-3
Flicker

Immunity
IEC 61000-4-2
ESD, 8 kV contact/15 kV air
IEC 61000-4-3
RF fields, 20 volts/meter,
80 MHz to 2.5 GHz

IEC 61000-4-4
Burst, 1 kV data and I/O ports/2 kV power ports
IEC 61000-4-5
Surge, 1 kV differential/2 kV common mode
IEC 61000-4-6
Conducted RF, 3 Vrms
150 kHz to 80 MHz

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IEC 61000-4-8
Magnetic field (50/60 Hz),
60 Amps/meter

IEC 61000-4-11
Power quality, voltage,
and frequency variations

Accessories

P/N 010-1114-01
Dual external NiMH/SLA
battery charger, 100 to 240 V

P/N 146-0055-00
Rechargeable NiMH battery

90360-01
Remote keypad

P/N 016-0369-00
Bedrail hook/quick release
mounting plate

P/N 010-1622-00
Mouse, USB

P/N 010-1621-00
Keyboard (U.S. English only;
other keyboards are available
for use outside the U.S.)

P/N 119-0480-00
Power supply*

Height
7.14 cm (2.81 inches)

Length
14.4 cm (5.67 inches)

Depth
4.19 cm (1.65 inches)

Weight
0.455 kg (1.0 pounds)

* This accessory is included.

A variety of GCX-brand
mounting and mobility solutions
are available from Spacelabs or
GCX directly.

Documentation

Ultraview® Operations Documents CD-ROM (P/N 084-1101-xx)

Spacelabs Healthcare Service Documents CD-ROM (P/N 084-0700-xx)

Spacelabs Healthcare Supplies and Accessories Catalog CD-ROM (P/N 084-1201-xx)

Regulatory Approvals



CSA certified: Meets
IEC 60601-1, CSA C22.2
No. 601.1, and UL 60601-1 for
electrical safety. IECEE CB
Scheme.



Meets EN 60601-1. CE marked
in accordance with the Medical
Device Directive 93/42/EEC.

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FCCID: CM6010-1471ABG
IC: 2434A-01047100
Option X, private wireless
802.11a/b/g



FCC ID: H9PLA4137
IC: 1549104431A
Option Z, private wireless
802.11b

The embedded wireless options 802.11a/b/g (X) and 802.11b (Z) of this device comply with part 15 of the FCC Rules, with RSS-210 of Industry Canada, and are CE marked in accordance with the RTTE Directive 1999/5/EC.

Operation of wireless options X and Z are subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The radio-transceiver may only be used for Wireless Local Area Network (WLAN) operation within a medical facility. It is not intended for home or vehicle use. Changes or modifications not expressly approved by Spacelabs Healthcare will void the user's authorization to operate this equipment.

To comply with the FCC's RF safety Specific Absorption Rate (SAR) requirements, the user must ensure that the monitor, which contains the radiating element of the antenna, is located at least 20 cm (8 inches) away from a person's head or body.