Compact Monitor (91390)

Summary

The qube™ compact monitor (91390) has a 26.2 cm (12.1 inch) LCD display with 1024 x 768 resolution. It features an intuitive user interface (similar to that of the XPREZZON™ monitor) and a stylish industrial design. The monitor includes a single module slot; additional modules can be connected using the 90499 Module Housing. Additionally, the monitor supports up to three Flexport® devices. Available options include an integrated recorder and wireless. Dual-battery slots allow this monitor to be used in transport as well as at the bedside.

Features

Product Configurations

User Interface

All controls are onscreen touch buttons, with the exception of the power (ON/OFF) key; optional controls include mouse, keyboard, and remote control.

Remote View/Alarm Watch

Provides a single parameter view for any monitored patient on the network (remote viewing), or in the event of an alarm (Alarm Watch), from up to 32 selected patients. Data from any monitor may be simultaneously viewed by up to 16 monitors.

Trends

Shows 24 to 96 hours of graphic and tabular trends data for any bed on the network.

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

> Tabular — Time increments of 1, 3, 5, 10, 15, 30, or 60 minutes

Large Numerics

More than big numbers, this feature provides enhanced alarm surveillance and quick access to the parameter menus. Display presentations are user-configurable.

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Interactive Networking

Provides interactive view, control, review, and recording capabilities for parameters, trends, and calculations shown from any monitored patient on the network.

Dynamic Network Access™ (DNA™)

Spacelabs Healthcare proprietary version of the Citrix ICA Client provides the ability to connect and interact with remote applications hosted on Citrix servers; Citrix server software and other associated licenses and applications must be purchased separately.

Built-in Alarm Light

Provides multi-color visual alarm notification based on alarm severity. Shows both on the front and back of the monitor.

Alarm Management

Capabilities that enable clinical staff to quickly review alarm settings, identify recent alarm conditions, prevent nuisance alarms, control alarm indications for persistent conditions and proactively manage audible alarm indications.

Configurable Patient ID

The biomed-level administration tool enables configuration of the patient demographic information shown in public views. For example: remote viewing, alarm watching, full bed reviews, and central monitor waveform zones.

Barcode Scanner Support

Provides support for third-party bar code scanners; only USB-powered bar code scanners should be used at the patient bedside.

Options

The following options are available:

04 Four display zones

06 Six display zones

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

N Vital Signs Calculations (Hemodynamics and Oxygenation)

Q Data Shuttle® supports the transfer for up to 24 hours of trend information

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

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U Printer; one printer slot, refer to the product specifications section for details

V Full View; supports simultaneous display of 12 ECG leads

W Full Bed Review; provides a multiparameter view for any monitored patient on the network (up to five waveforms)

X Wireless; 802.11a/b/g

Product Specifications

Physical Dimensions		
Height	26.2 cm	(10.3 inches)
Width	31.5 cm	(12.4 inches)
Depth	13.2 cm	(5.2 inches)
Weight	4.1 kg	(9 lbs)
Display		
Color thin film transistor (TFT) resistive touchscreen liquid crystal display (LCD)		
Resolution	1024 x 768 pixels	
Size - wide	24.6 cm	(9.7 inches)
- high	18.4 cm	(7.3 inches)
Trace Height	4.2 cm	(1.7 inches)
	6 cm	(2.4 inches)
Printer		
Printing Method	Thermal array print head	
Paper	Heat-sensitive paper roll, 50 mm wide x 30 m long	
Resolution	Eight dots per mm (vertical) and 32 dots per mm (horizontal) at 25 mm per second sweep speed	
Prints	Manual and automatic alarm recordings for waveforms, vital signs data, trends, calculations, and full annotations are included	
Controls	Continuous, Stop Recording	
Alarm record	Records any parameters in an alarm state when alarm recording is active	
Indicators	Paper out, Unit off	
Sweep Speed	A variety of speeds are available under module control.	
Connectors	**Number**	**Location**

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Equipotential Terminal	1	rear panel
DC Power Input	1	rear panel
Ethernet 10/100 Base T Connection	1	rear panel
Serial Port	1	rear panel
USB Ports	4	rear panel
Video Output, DVI-D	1	rear panel
SDLC Port	1	rear panel
Alarm Relay Output-Nurse Alert	1	rear panel
Built-in Alarm Light	top	front and back
Batteries	2 Lithium-Ion (Li-Ion)	right side below printer slot
Printer slot	1	right panel
Module slot	1	left panel
Power On/Off key	1	right edge of display
Pod Connection	1	rear panel

Classification

MDD	Class IIb
EN 60601-1	Class I — 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, 3 to 1.5 A, 50 to 60 Hz
Batteries	10.8 Volt (7.2 Ah Li-ion) each battery. One battery provides up to 4 hours of operation. Two batteries allow up to 8 hours of operation. Expected peak performance of the batteries is about 300 charge/discharge cycles.
Isolation	Chassis leakage current meets AAMI, UL 60601-1, CSA Std. C22.2 No. 601.1, and IEC 60601-1 standards

Environmental Requirements

Transport and Storage Temperature	-25º to 60º C (-13º to 140º F)
Humidity	95% (non-condensing)
Altitude	0 to 12,192 meters (0 to 40,000 feet)

Operating Temperature	0º to 40º C (32º to 104º F)
Humidity	95% (non-condensing)
Altitude	0 to 4,572 meters (0 to 15,000 feet)

Accessories

Refer to the Spacelabs Healthcare Supplies and Accessories Catalog for availability of ECG cables, lead wires and electrodes, pressure transducers, temperature probes, cardiac output cables, delivery system, injectate temperature probes, injectate housings, blood pressure cuffs, and SpO_2 sensors.

Docking Station	P/N 016-0922-00
Rechargeable Li-Ion battery	P/N 146-0142-00
Li-Ion battery charger, 100 to 240V, two battery capacity	P/N 015-0696-00
Mouse (USB)	P/N 010-1622-00
U.S. English Keyboard	P/N 010-1621-00

Contact your Spacelabs Healthcare representative for a complete list of mounting accessories, and to determine which mounting configuration is best suited to your monitoring environment.

Documentation

Bedside, Central, and Telemetry Systems 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 (www.spacelabshealthcare.com)

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Regulatory Approvals

C CSA US

CSA certified. Meets CSA C22.2 No. 601.1, IEC 60601-1 for electrical safety.

CE 0123

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

CE 0981

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

The embedded wireless option 802.11a/b/g (X) of this device complies 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 option X is 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.