



Qube shown with 91496-C Command Module and 92516 Capnography Module (both sold separately)

Spacelabs 91390 Qube[®] is a compact patient monitor with a 12-inch touchscreen that is well-suited for use in high acuity neonatal, pediatric and adult care, as well as perioperative environments. Its clever design and compatibility with the Spacelabs Command Modules, Spacelabs Capnography Pod, and Exergen Temporal Artery Thermometer provide a versatile solution with a full range of measurement choices.

Qube stores up to 96 hours of trends, and features remote viewing, Alarm Watch, and three user-selectable screen formats harmonized with Xprezzon[®] and Qube Mini to facilitate learning and navigation. With wireless networking and two batteries, Qube supports extended transport for up to eight hours. When deployed with the Spacelabs Xhibit[®] Central Station and Intesys[®] Clinical Suite, Qube offers enterprise connectivity to your hospital EMR, ECG management systems, paging systems, and remote access solutions.

Physical Specifications

Dimensions (H x W x D)	26.2 x 31.5 x 13.2 cm (10.3 x 12.4 x 5.2 in)
Weight	4.1 kg (9.1 lbs) with one battery, excluding module and Capnography Pod
Display type	Resistive TFT LCD
Display size	30.37 cm (12.1 in) diagonal
Display resolution	1024 x 768 pixels
Number of waveforms	Choice of 4 or 6
Screen layouts	Selectable, 3
Controls	Power On/Off (side of unit) Touchscreen user interface

Indicators

Alarms	Audible tones, visual on display, integrated alarm light
Alarm levels	High, Medium, Low
Power	AC power and battery charge status indicators

Connections

Measurement connections	Slot for 91496 Command Modules SDLC port for 90499 two-slot module housing and Flexport® interfaces 92516 Capnography Pod interface
USB ports	4 USB ports for optional 91449 printer, bar code reader, Exergen Temporal Artery Thermometer (P/N 010-2157-00), mouse (P/N 010-1622-00), and/or language-specific keyboard
Network	LAN: Ethernet 10/100 Base T port WLAN: 802.11 a/b/g (optional)
Video interface	DVI-D for optional 94267 secondary display
Serial port	RS-232 (UART) connector for secondary display touchscreen, Patient Data Logger, or troubleshooting
Docking	Qube docking station (optional)
Alarm relay output–nurse alert	14-pin SCSI (female) connector for alarm relay output–nurse alert. Compatible with third-party alarm devices (e.g. hospital alarm lights) that conform to the Spacelabs pinout for alarm relay. Relay contact ratings must not exceed 250 ma or 28 V AC/DC.
Mount interface	75 mm VESA mounting pattern. GCX compatible; contact Spacelabs Healthcare for mounting options.
Grounding	Equipotential terminal

Recorder

Type	Optional integrated recorder/printer (option U) or USB connection to 91449 thermal array recorder/printer
Wave traces	2-channel
Paper width	50 mm (2 in)

Electrical Specifications

Power Supply

Power source	Battery or external AC power supply, P/N 119-0552-xx
AC input	100 to 240 VAC, 50 to 60 Hz, 3 to 1.5 A
Safety classification	60601-1: Class I, chassis connected to protective earth (hospital grade safety ground)
Mode of operation	Continuous

Battery

Type	Rechargeable lithium-ion, P/N 146-0142-xx
Number of batteries	1 or 2
Voltage	10.8 V (7.2 Ah) each
Battery operation	Approximately 4 hours with 1 battery; approximately 8 hours with 2 batteries
Battery recharge time	1 battery: approximately 2 hours from depletion to 90% charge in normal use 2 batteries: approximately 4 hours from depletion to 90% charge in normal use
Battery life	300 cycles

Environmental Requirements

Ambient temperature	Operating: 0° to 40° C (32° to 104° F) Storage and Transport: -25° to 60°C (-13° to 140° F)
Relative humidity	Operating, storage, transport: 95% non-condensing
Altitude	Operating: 0 to 3,000 meters (0 to 9,843 feet) Storage and transport: 0 to 12,192 meters (0 to 40,000 feet)
Water ingress	Meets EN 60529 IPX1

Ordering Information

Software options	4-waveform display (04) 6-waveform display (06) Perioperative (D) Vital signs calculations (N) Data Shuttle (Q) Patient Data Logger (R) Full 12-lead view (V) Full bed review (W)
Hardware options	Integrated recorder/printer (U) Wireless 802.11 a/b/g (X or P) Second battery (Z) Battery charger, 2-battery capacity (P/N 015-0696-00) Docking station (P/N 016-0922-00) 94267-L19 secondary display, 19-inch (48.26 cm) 94267-L15 secondary display, 15-inch (38.1 cm) Exergen Temporal Artery Thermometer (P/N 010-2157-00) 91449 thermal array recorder/printer 90499 module housing External alarm light (P/N 011-0246-00)

For further ordering information and details on compatible accessories, please contact your Spacelabs Healthcare representative or refer to the product documentation.

This product may not be approved for market release in all countries.

Documentation

All operations, system administration, and service manuals are available in PDF format on CD-ROMs that ship with the product.

Regulatory Approvals



CSA certified. Meets CSA C22.2 No. 60601-1, ANSI/AAMI ES60601-1, and IEC 60601-1 for basic safety and essential performance.



CE marked in accordance with the Medical Device Directive 93/42/EEC.



Does not contain hazardous substances — Europe



Does not contain hazardous substances — China

The wireless option X 802.11a/b/g radio transceiver of this device complies with part 15 of the FCC Rules, and with RSS-210 of Industry Canada.

The wireless option P 802.11a/b/g radio transceiver of this device complies with part 15 of the FCC Rules, with RSS-247 of Industry Canada, and with the Radio Equipment Directive (2014/53/EU).

Operation of the wireless option 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 in) away from a person's head or body.

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