SPACELABS HEALTHCARE

Data Sheet

Qube Mini 4.20
91389

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

Spacelabs 91389 Qube® Mini patient monitor is lightweight and ruggedized to withstand accidental drops, meeting the needs of busy transport and mid-acuity environments. The integrated intravenous (IV) pole mount and 8-inch touchscreen display with alarm light delivers vital information where you need it to be, at the bedside or on the go. Compatibility with the Spacelabs Command Modules, Spacelabs Capnography Pod, and Exergen Temporal Artery Thermometer provides a versatile solution for varied patient acuity levels.

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

Physical Specifications

Dimensions (Height × Width × Depth)	20 cm × 26 cm × 19 cm (7.9 in × 10.2 in × 7.5 in)
Weight	2.9 kg (6.5 lb), excluding module and Capnography Pod
Display type	Resistive TFT LCD
Display size	20.3 cm (8.0 in) diagonal
Display resolution	1024 × 768 pixels
Number of waveforms	Choice of 4 or 6
Screen layouts	Selectable, 3
Controls	Power On/Off (side of unit) Touchscreen user interface IV pole clamp control
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 Spacelabs 91496 Command Modules 92516 Capnography Pod interface
USB ports	USB port for optional 91449 printer, bar code reader, Exergen Temporal Artery Thermometer (P/N 010-2157-00), mouse (P/N 010-1622-00), or language-specific keyboard
Network	LAN: Ethernet 10/100 Base T port WLAN: 802.11a/b/g/n/ac (optional)
Serial port	RS-232 (UART) connector for Patient Data Logger or troubleshooting
Mounting interface	Integrated quick-connect clamp mounts onto an intravenous (IV) pole 18 to 26 mm in diameter. GCX compatible; contact Spacelabs Healthcare for mounting options.
Recorder	
Type	USB connection to 91449 thermal array recorder/printer
Wave traces	2-channel
Paper width	50 mm (2 in)

Electrical Specifications

Power supply	
Power source	Internal battery or external AC power supply, P/N 119-0480-02
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
Start-up transients	Maximum in-rush current <35 A at 120 VAC; <70 A at 240 VAC
Battery	
Type	Rechargeable lithium-ion smart battery, P/N 146-0145-04
Number of batteries	1
Voltage	14.4 V
Battery operation	Approximately 5 hours
Battery recharge time	Approximately 3.5 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
Drop test	Operational after 1 meter drop

Ordering Information

Software options	4-waveform display (04) 6-waveform display (06) Data Shuttle (Q) Patient Data Logger (R) Full 12-lead view (V) Full bed review (W)
Hardware options	Wireless 802.11a/b/g/n/ac (L) Exergen Temporal Artery Thermometer (P/N 010-2157-00) 91449 thermal array recorder/printer 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

This product ships with a complete set of comprehensive documentation.

For a full list of available supplies and accessories, go to https://www.spacelabshealthcare.com/supplies.

Regulatory Approvals

C SP® US	CSA certified. Meets CSA C22.2 No. 60601-1, ANSI/AAMI ES60601-1, and IEC 60601-1 for basic safety and essential performance.
CE 0123	CE marked in accordance with the Medical Device Directive 93/42/EEC.
	Does not contain hazardous substances — China
	The wireless option L 802.11a/b/g/n/ac 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.

Qube Mini complies with the following standards:

Identifier	Applicable standard editions or document number/revision and description
IEC 60601-1	IEC 60601-1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 (or IEC 60601-1: 2012 reprint) Medical Electrical Equipment – Part 1: General requirements for basic safety and essential performance
IEC 60601-1-2	IEC 60601-1-2:2014 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances- Ed. 4.0
EN 60601-1-2	EN 60601-1-2:2015 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances- Ed. 4.0

Identifier	Applicable standard editions or document number/revision and description
IEC 60601-1-8	IEC 60601-1-8:2006 + AMD1:2012 + AMD2:2020 Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems - Edition 2.1; Consolidated Reprint
EN 60601-1-8	EN 60601-1-8:2007/A2:2021 Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems - Edition 2.1; Consolidated Reprint
IEC 80601-2-49	IEC 80601-2-49:2018-03 Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment
EN 80601-2-49	EN 80601-2-49:2019-10 Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment
ISO 13485	ISO 13485:2016/AC:2018 Medical devices – Quality management systems – Requirements for regulatory purposes
EN ISO 13485	EN ISO 13485:2016/A11:2021 Medical devices – Quality management systems – Requirements for regulatory purposes
EN ISO 14971	EN ISO 14971:2019 Medical devices – Application of risk management to medical devices
IEC 60601-1-6	IEC 60601-1-6:2020 Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability
EN 60601-1-6	EN 60601-1-6:2021 Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability
IEC 62366-1	IEC 62366-1:2020 Medical devices – Part 1: Application of usability engineering to medical devices
IEC 62304	IEC 62304:2015 Medical device software – Software life cycle processes – Consolidated Text
EN 62304	EN 62304:2015 Medical device software – Software life cycle processes – Consolidated Text
MDCG 2019-16	Cybersecurity
ISO 15223-1	ISO 15223-1:2021 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements
EN ISO 15223-1	EN ISO 15223-1:2021 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements
ISO 20417	ISO 20417:2021 Medical devices — Information to be supplied by the manufacturer
EN ISO 20417	EN ISO 20417:2021 Medical devices — Information to be supplied by the manufacturer

We are continuously improving our products. Specifications are subject to change without notice. Product images are provided for general reference. This product may not be available for sale in all countries.

Please refer to https://www.spacelabshealthcare.com/trademarks for a full listing of Spacelabs Healthcare trademarks. Other brands and product names used herein are trademarks of their respective owners.

SPACELABS HEALTHCARE

35301 SE Center Street, Snoqualmie, WA 98065, USA | T: +1 425 396 3300 | F: +1 425 396 3301
www.spacelabshealthcare.com