

Mangum City Hospital Request for Proposal

Submitted Date: October 23, 2020
Valid Until: December 23, 2020

Marco Morrow

Account Sales Executive

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The Spacelabs Advantage

Patient Safety, Cost Control, and Clinical Efficiency

Mangum City Hospital Monitoring Proposal

Spacelabs' proposal fulfills and exceeds the requirements designated in the Mangum City Hospital RFP as described, including hardware, software, network, education, and installation for complete functionality. We are seeking a symbiotic partnership with Mangum City Hospital to bring the best patient monitoring solution possible to Mangum and the surrounding community that the hospital serves.

Proposal Highlights

Included in the proposal

- Barcode scanning on all monitoring devices quoted
- One year warranty, four years of no charge depot repair
- Two tuition credits for Biomedical Engineer training at no charge
- Five years of software support
- Trade-in of existing equipment

Total Proposal Price

\$297,113.14

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Mangum Regional Hospital Patient Monitoring RFQ Summary & Vendor Agreement

Project Description

Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional CPSI Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible device

Instructions: RFQ Disclosure Worksheet

All quoted equipment must be NEW and of the bidding manufacturer's most current model utilizing their latest technology.

Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote; requested items must be included in official quote total and may NOT be listed as optional; vendor must include any/all additional items required for fully functioning solution; including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc... Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. **ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED**

Total 5-Year Proposal Price

Proposal Price MUST include 5-Year total for ALL costs associated with Complete & Functioning system as specified in Project Description and supplemental documents & vendor presentations; including, but not limited to Hardware, Infrastructure, Software, Licensing, Warranty, Service, Labor, Professional Services, Design, etc.

Total Proposal Price:	\$ 315,375.99	(Including System Requirements; Must match official quote)
	\$ (18,262.85)	Premier Competitive Trade-in Discount
	\$ 297,113.14	Grand Total

Vendor Agreement

Please ensure that included proposal meets ALL of the required and/or referenced systems, monitors, parts, service, etc., at the time of go-live.

If deployed monitoring system does not meet what is requested or required within this proposal, vendor must provide necessary systems, monitors, parts, service, etc., at no charge.

Vendor Name: Spacelabs Healthcare
Authorized Signatory
Name: Tony Challancin
Title: Treasurer


Signature 


Mangum Regional Hospital Patient Monitoring System Requirements (Networking, Server, Software Licensing, Integration, Test Environment & Professional Services Req's)		Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?			If quoted product varies in name, description or functionality from that requested, provide complete and accurate description	Extended Price
		Yes	No	Partial		
Networking	<p>Hard Wired : It is preferred that all Physiologic Monitoring equipment will reside on the HOSPITAL LAN. Hospital will provide network drops at each monitor, & central location. If vendor requires proprietary network, it is the sole responsibility of equipment vendor to disclose and include all costs of design & labor to create this network. ALL COSTS FOR FUNCTIONING NETWORK MUST BE INCLUDED HEREIN</p>	X			All bedside monitors communicate on a dedicated VLAN(s). Spacelabs fully supports routing between VLAN's for bedside monitors and central stations to leverage a fully redundant, hospital managed network. Monitors fully support DHCP at the edge of the network on the device and DNS.	Included
	<p>Wireless : It is preferred that all Physiologic (<i>Transport</i>) Monitoring equipment will reside on the HOSPITAL 802.11 WLAN. If vendor requires proprietary network, it is the sole responsibility of equipment vendor to disclose and include all costs of design & labor to create this network. ALL COSTS FOR FUNCTIONING NETWORK MUST BE INCLUDED HEREIN Hospital will provide a wireless site survey and cable pulling.</p>	X			A proprietary network is not required, monitors can reside on the Hospital WLAN. Spacelabs compact and portable monitors support 802.11 a/b/g.	Included
	<p>Telemetry : It is REQUIRED that telemetry equipment will reside on a 1.4GHz WMTS network. 608MHz and / or Wi-Fi telemetry will not be accepted or considered. It is the responsibility of equipment vendor to cover all costs and labor to create this network except for cable pulling. Hospital will provide cable pulling.</p>	X			Spacelabs Telemetry requires the use of the protected WMTS including 1.4GHz. If multiband antenna is installed, 608MHz is also fully supported. **NOTE: antenna price quoted on the Coverage Area Telemetry tab.	Included
	<p>WAN Connectivity to ALL Mangum Regional Hospital facilities: Vendor must provide the ability for equipment to communicate across the hospital wide area network to remotely monitor patient monitoring devices and capture all data required in the sections below. This includes capturing data from all monitored departments through Mangum Regional Hospital.</p>	X			Any bedside, in any facility can be viewed by any other bedside or central across the enterprise. No central, database or proprietary equipment for communication is required. This includes full, interoperability to adjust alarms, admit, etc. if required. Subnets can be excluded to the node/edge level on the device. Management of telemetry at the remote site requires local administration within that broadcast domain. Viewing of any telemetry at another central station is supported across the WAN. This includes capturing data from all monitored departments through Mangum Regional Hospital.	Included
	<p>Traffic Segmentation : It is preferred that all vendor equipment residing on the Mangum Regional Hospital network will be segmented onto its own VLAN.</p>	X			Spacelabs fully supports hospital sanctioned and managed wired and wireless networks. This includes routing over layer3 without any proprietary servers or central stations.	Included
	<p>Remote Displays : HOSPITAL to provide network for remote displays including audio-video transmitters/receivers and cable for connectivity from central stations to the associated remote displays. HOSPITAL will also provide the TV's/Displays and mounts for these remote displays.</p>					
Servers	<p>Server Location: Vendor must provide Network architecture, including all server infrastructure, WAN / LAN requirements, physical location requirements, data flow diagram, and EMR [CPSI] integration, as specified by Mangum Regional Hospital IT staff</p>	X			Spacelabs will provide Network architecture, including all server infrastructure, WAN / LAN requirements, physical location requirements, data flow diagram, and EMR [CPSI] integration, as specified by Mangum Regional Hospital IT staff.	\$5,000.00
	<p>Server Virtualization : Vendor is allowed to utilize hospital's virtual server environment. Vendors must provide access to their software to hospital Clinical Engineering & IT personnel for support.</p>	X			Server virtualization is fully supported. Since 2007, Spacelabs has deployed ICS within a virtual environment to leverage fault tolerance, high availability and redundancy as the core of a virtualized system. Recommendations are provided and customers are encouraged to use active management of the VM instances of databases and distribution servers (Monitor Loaders, Application Servers, etc.).	Included
	<p>Physical Servers : In the event vendor doesn't support virtualization, vendor is required to provide all servers necessary for the operation and interfacing of their system. This includes redundant servers. Vendors must provide access to their servers & software to hospital Clinical Engineering & IT personnel for support.</p>	X			Not Applicable	Included
Software Licensing	<p>Device Interfacing/Integration : Vendors shall provide licensing for ALL devices included in this RFP to communicate with the electronic medical record.</p>	X			All bedside, wired or wireless, and patient worn devices are being interfaced to the EMR. A single inbound ADT and a single outbound Vital Signs interface is all that is required for a traditional HL7 feed to CPSI.	Included
	<p>Device Software : Vendors shall provide licensing for "unlimited" software updates, for the life of the system, required for interoperability in the event additional items are purchased in the future. This includes monitor, central and server software.</p>	X			Devices (modules and monitors) are not required to be on the same version of software for interoperability or communication to enterprise applications. As of today, the current Spacelabs enterprise applications support devices introduced in 2003 along side devices introduced in 2017. Software support contracts provide for an annual medical device software updates as part of the value of the agreement. Costs are quoted on the Emergency Department tab.	Included

System Requirements


Softw	<p>Patient Data Transfer : CONTINUOUS FULL DISCLOSURE RECORD ACROSS ALL DEPTS. System shall provide continuous Full Disclosure record for ALL monitoring devices (telemetry, bedside, wireless), across ALL departments, including those where central monitors are not required in hospital provided specifications. All Full Disclosure records MUST be accessible from any central monitor located on patient monitoring network. This is a site license.</p>	X			Transferred data includes all waveforms, alarms, alerts, print jobs, demographics and trends of all devices and modules connected to the bedside or patient worn monitors. This can include up to 3 days post discharge patient data.	Included
	<p>Remote Access Software : Vendors will provide Remote Access ability from any mobile device or hospital PC, for unlimited users (or as specified in dept tabs), this remote access must be available for ALL quoted bedside monitors, compact monitors, and telemetry. Data to be available to remote users include: Raw Waveforms, Arrhythmia Analysis, Alarms, Custom Trend Creation & Display (Graphical and Tabular), Diagnostic 12 Lead EKG Reports with interpretation, Saved Events, Printed Item Audit Trail (Auto and Manual). Additionally, user must have ability to print the following all required data from any PC connected to the HOSPITAL network. This may be accomplished through a web interface or client application.</p>	X			Spacelabs will provide Remote Access ability from any mobile device or hospital PC, for unlimited users. Remote access to data and waveforms is accomplished with Spacelabs Clinical Access. The Client on the central station is identical to the format at the bedside and is identical at the workstation or other device.	Included
Integration	<p>ADT Integration: Vendor to provide ADT connection to the Mangum Regional Hospital ADT system.</p>	X			The ADT interface is included as part of the Interface Bundle licenses.	\$5,025.00
	<p>Barcode Scanning: allows all quoted bedside monitors, compact monitors, transport monitors, and central monitors to utilize hospital provided barcode scanner for patient admission through ADT integration</p>	X			Barcode scanning can be used to admit a patient to the monitor through ADT integration.	Included
	<p>Electronic Strip Export to EMR [CPSI]: All bedside, compact, transport, and central monitors must print electronic waveform strip (pdf) and reports directly to EMR [CPSI] patient folder</p>	X			Patient data including electronic waveforms (in pdf format) can be dropped into a shared folder for CPSI to pick up and process.	Included
	<p>Alarm / Event Notification System : All monitoring devices must be able to transmit alarms to the middleware communication system allowing for alarms to be forwarded on to clinician phones.</p>	X			The Enterprise Network Interface (ENI) licenses are included in the Interface Bundle licenses. Using ENI, alarm retrospective information will be sent to third party systems for processing to user devices (e.g. smartphone) supported by the middleware application. This can be implemented at a time of customer's choosing for just the implementation charges. Mangum does not currently have the middleware or 3rd Party devices to interface.	Included
	<p>EMR [CPSI] Interface via HL7: This interface allows for transmission of numerics to the EMR [CPSI] system</p>	X			The HL7 Vital Signs Interface is included as part of the Interface bundle licenses which allows for transmission of numerics to CPSI.	Included
	<p>Full Disclosure Integration with EMR [CPSI]: Allows vendor's full disclosure application to be opened "in context" within the EMR [CPSI] view a staff member will be accessing.</p>	X			CPSI does not currently support opening in context. Once they do, Spacelabs can provide an API integration packet that would allow CPSI to deploy Clinical Access (Full Disclosure) from CPSI dashboard at no additional charge.	Included
Test System	<p>Vendor will provide a separate test system for validating all interfaces listed above as well as remote access. HOSPITAL will provide information regarding test requirements as well as the virtual space requirements for the test system.</p>	X			Spacelabs complies	Included
Professional Services	<p>Vendors will provide a project manager to manage and coordinate all aspects of the project. Please include all costs for design and travel, implementation, and all other associated professional services required for a successful implementation and go-live.</p>	X			Spacelabs will provide a project manager to manage and coordinate all aspects of the project. Installation and education are included on each tab if applicable.	\$3,500.00
	<p>Vendors will provide project plan with minimal disruption to existing patient monitoring devices until new network goes live.</p>	X			Spacelabs will provide a project plan confirmed and approved by Mangum Hospital that will provide minimal disruption to existing patient monitoring devices until new network goes live.	Included


System Requirements TOTAL \$13,525.00

Mangum Regional Hospital Patient Monitor RFP Product Disclosure		Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible devices								
MINIMUM REQUIRED BID SPECIFICATIONS & GUIDELINES		VENDOR RESPONSE SECTION								
As a reference of standard of quality, functionality and operation, the Hospital requests that bids be based on the specific products listed below. All equipment will be NEW and of the bidding manufacturer's most current model utilizing their latest technology.		Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote; requested items must be included in official quote total and may NOT be listed as optional; vendor must include any/all additional items required for fully functioning solution; including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc. Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED.								
 Hospital: Mangum Regional Hospital- Mangum, OK	Emergency Dept		Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?		If quoted product varies in name, description or functionality from that requested, provide complete and accurate description		Specific Product Quoted			
	Configuration: 08/03/20	Confirmed by: Daniel Zach	Yes	No	Partial	Details / Functional Description	Qty	Model / Part #	Product Name	Extended Price
Central Monitors and / or Full Disclosure										
Number of Nurses Stations in Unit Requiring Centrals (touchscreens >=22")	1		X			Comply	1	96102-16C	Xhbit Remote Interactive Client	12,067.57
Total Number of Centrally Monitored Patients per Nurses Station #1	16	Secondary RN Hospital Station	X			Comply	1	011-0241-01	Xhbit display	1,686.46
Total Number of Centrally Monitored Patients per Nurses Station #2										
Total Number of Centrally Monitored Patients per Nurses Station #3										
Total Number of Centrally Monitored Patients per Nurses Station #4										
Total Number of Centrally Monitored Patients per Nurses Station #5										
Total Number of Centrally Monitored Patients per Nurses Station #6										
Central Station Remote Display (non-functioning), >=22"	1	ED OFC *			X	Spacelabs will supply equipment needed to repeat the signal. Hospital responsible for display, mounting and cable drop.	1	Multiple	HDMI over IP display repeater solution	2,038.36
Remote Full Disclosure Terminals / Workstations (in addition to central monitors)	3		X			Exceeds: Unlimited Licensing	unlimited		ICS Clinical Access	Included
Uninterruptible Power Supply (UPS)	1	Hospital Provides	X			Hospital to provide				N/A
>=72-hour Full Disclosure at all Central Stations	1		X			Comply	1	910-3810-00	72 hour Smart Disclosure	Included
>=72-hour Full Disclosure capture all monitored parameters (bed quantity)	16		X			Comply			Included in 72 hour Smart Disclosure	Included
Bedside & Transport Monitors										
HIGH-ACUITY Bedside 8 trace, >=19" touch screen										
HIGH-ACUITY Bedside 6 trace, >=17" touch screen										
MID-ACUITY Bedside 6 traces, >=15" touch screen										
MID-ACUITY Bedside 6 traces, >=12" touch screen										
MID-ACUITY Bedside 6 traces, >=12" touch screen										
LOW-ACUITY Bedside 4 trace, >=12" touch screen	2	*Wifi	X			Comply	2	Multiple	Qube Monitor (91390)	15,788.04
MID-ACUITY Bedside 6 traces, >=8" touch screen										
LOW-ACUITY Bedside 4 trace, >=8" touch screen										
LOW-ACUITY, Non-ECG Vital Signs Monitor, >=7" touch screen										
Secondary Configurable Display (or Dock w/ Display) 8 trace, >=19" touch screen										
Add 802.11 wireless / Wi-Fi for portable or transport	2	*Wifi	X			Comply	2	91390-P	Wireless (802.11 ab/g)	1,012.30
Transport 802.11 Wireless Coverage Area (hospital or dedicated WLAN - provide plans)	Hospital		X						see Coverage Area Transport Tab	N/A
Mounts (provide description)	2	rollstands	X			Comply	2	Multiple	Roll Stand	858.60
Mounts (provide description)										
Bedside Monitor Acuity Options										
ECG	2		X			Comply	2	91495-A	Non-invasive parameter set	8,997.28
Basic Cardiac Arrhythmia										
Advanced Cardiac Arrhythmia	2		X			Comply	2	91495-H	Advanced Multiview Arrhythmia	1,789.28
ST-segment Analysis	2		X			Comply	2	91495-S	ST Segment Analysis	472.76
Custom Trending (Sepsis, ST, Histograms, etc.)	2		X			Comply	2	910-3998-01	ICS Clinical Access Bed License	636.00
Respiration	2		X			Comply	2	91495-R	Respirations	609.50
Nellcor / Covidien Pulse oximetry	2		X			Comply	2	91495-N	Nellcor SpO2	1,486.00
Masimo Pulse oximetry										
NIBP	2		X			Comply			Included in Parameter Set	Included
2 invasive pressure capability, at each bedside monitor										
4 invasive pressure capability, at each bedside monitor										
Core temperature (surface - rectal) at each bedside monitor	4		X			Comply			Included in Parameter Set Each module can measure two temperatures	Included
Cardiac Output - thermodilution, at each bedside monitor										
12-lead ECG - interpretive & diagnostic	2		X			Comply	2	91495-D	Diagnostic ECG	1,726.74
ETCO2 stationary bedside (# of modules & sensors / beds equipped for concurrent use)										
ETCO2 functional on transport (# of modules & sensors / beds equipped for concurrent use)	2		X			Comply	2	92516-A	Capnospd	6,678.00
BiSx (# of modules / beds equipped for concurrent use)										
Multi-Gas / Anesthetic Gas Analysis										
SVO2										
EDG 3 lead cable & lead wires (snap or clip)										
EDG 5 lead cable & lead wires (snap or clip)										
EDG 12 lead cable & lead wires (snap or clip)	2		X			Includes 2 sets lead wire sets, use together 10 lead, separate for 5 lead	2	Multiple	5 + 5 ECG cable and lead wire sets	1,050.00
Supplies: ALL required cables, wires, accessories for functional go-live (Qty indicates # weeks)	2		X			Equal to or greater than a 2 week supply	Multiple	Multiple	Supplies and Accessories	1,397.98
Data Distribution / IT Integration										
Workflow: Alarm Management Consulting, Diagnostics, & Reporting	2		X			Includes unlimited use and users. This is for all departments. *Price is locked in for 5 years upon signing of contract	5	910-0282-00	SafeNSound Standard for up to 100 devices, one year of service	30,000.00
Workflow: Alarm Management Reports (total quantity)	20	5yr qty reports	X			SafeNSound includes Alarm Management Consulting, Diagnostics & reporting with unlimited and on demand reporting.			Included in SafeNSound Standard	Included
Workflow: Patient Data Transfer / Seamless Full Disclosure Record Across All Depts	2	all depts	X			Comply			Included in ICS Clinical Access Bed License	Included
Workflow: Barcode scanning patient admission (Qty identifies bedside & central)	2		X			Comply			Included in the monitor	Included


Mangum Regional Hospital Patient Monitor RFP Product Disclosure		Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible devices										
MINIMUM REQUIRED BID SPECIFICATIONS & GUIDELINES		VENDOR RESPONSE SECTION										
As a reference of standard of quality, functionality and operation, the Hospital requests that bids be based on the specific products listed below. All equipment will be NEW and of the bidding manufacturer's most current model utilizing their latest technology.		Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote, requested items must be included in official quote total and may NOT be listed as optional; vendor must include any/all additional items required for fully functioning solution; including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc... Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED										
 Hospital: Mangum Regional Hospital- Mangum, OK		Emergency Dept			Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?		If quoted product varies in name, description or functionality from that requested, provide complete and accurate description			Specific Product Quoted		
		Configuration	Confirmed by		Yes	No	Partial	Details / Functional Description		Qty	Model / Part #	Product Name
Workflow: WAN Connectivity / Multi-facility remote monitoring (telemed)					X			This capability is included in the monitoring system				
Remote Access: Web enabled remote Bedside View (PCs, WoWs, Tablets, etc.)		2			X			Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Remote Access: Web enabled remote Full Disclosure (PCs, WoWs, Tablets, etc.)		2			X			Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Remote Access: Concurrent User License quantity (total for all remote view apps)		5			X			Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Remote Access: Concurrent User License Annual Renewal quantity		5 yrs	Unltd licenses		X			Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Printing: Electronic Strip image Export to EMR (pdf)		2	license & install		X			Comply			see System Requirements for details	Included
Printing: Laser Printer or Network Printer (ALL centrals & bedsidess)		2	Networked		X			Comply			Included in ICS Clinical Access Bed License	Included
Interface: Functioning HL7 Demographics INBOUND from ADT		2			X			Comply	2	910-3999-01	ICS Interface Bed License	424.00
Interface: Functioning HL7 Vital Signs OUTBOUND to EMR		2			X			Comply			Included in ICS Interface Bed License	Included
Interface: Alarm Distribution (i.e. secondary alarming to mobile devices)		2	Want Future Capability, include in quote		X			Comply			Included in ICS Interface Bed License	Included
Interface: Ventilator Interface (bedside to EMR)												
Interface: Hemodynamic (CCO) Interface (bedside to EMR)												
Interface: 12-Lead Interface (bedside to EKG archival system)												
Servers: Virtual or Physical			virtual preferred	provide specs	X			Comply			Ability to use virtual servers is included as part of ICS licenses	Included
Test Server Application Licensing		yes			X			Comply			Included as part of ICS licenses	Included
Data Center: Local or Remote		Local			X			Comply			Included as part of ICS licenses	Included
Network: Install on Managed / Hospital Network (via VLAN); IEC 80001 compliant		Hospital	via VLAN			X		Comply			Spacelabs monitors can be installed on the hospital's network. IEC 80001-1 compliance is the customer's responsibility. Spacelabs has and follows a risk management process in accordance with ISO 14971:2019 as part of the Quality Management System, which aligns with applicable FDA and AAMI standards for medical devices.	Included
Warranty, Service, Education, Workflow												
Clinical Workflow and Implementation Consulting Program & Follow-up		yes			X			Comply			Included in Clinical Education	
Clinical Training: Online monitor education module		yes	SCORM file		X			Comply	1	999-0503-27, 999-0503-30	eLearning and SCORM files	950.00
Clinical Training: onsite education and go-live support & Follow-up		yes				X		Follow up not included	1	999-0222-51, 999-0222-52	(1) Basic Clinical Education	2,958.50
Clinical Training: How many Nurses (onsite user training)		25	ALL DEPTS		X			Comply	25		(1) Additional Clinical Support (for go-live)	Included
Clinical Training: How many Physicians (onsite user training)		5	ALL DEPTS		X			Comply	5		Included in Clinical Education	Included
Clinical Training: How many Super Users (onsite user training)		4	ALL DEPTS		X			Comply	4		Included in Clinical Education	Included
Biomed Training: operation, preventative maintenance & basic corrective maintenance		yes			X			Comply			Two tuitions of Level 1&2 Xprezzon/Qube/Xhibit training are provided at no charge as part of your Premier contract. \$12,000 value	Included
Software: HL7 & Clinical App Service Agreement in # of years		5yrs			X			Comply	1		Enhanced Software Support for all units	5,745.61
Software: Monitor / Central Firmware & Compatibility Service Agreement in # of years		5yrs			X			Comply			Included in Enhanced Software Support	
Hardware: Warranty / Service Parts & Labor Coverage in # of years		5yrs			X			Comply, One year warranty, four years depot repair	4	999-9999-42	Depot Repair (years)	Included
Installation: Complete Installation, Design, Implementation		yes			X			Comply	1	999-9999-97	Installation	1,783.08
Project Management: manage and coordinate all aspects of the project		yes			X			Comply			see System Requirements tab	Included

Department Total: 100,156.06

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	Yes	No	Partial	Details / Functional Description			Qty	Model / Part #	Product Name	Extended Price
Central Monitors and / or Full Disclosure										
Number of Nurses Stations in Unit Requiring Centrals (touchscreens >=22")	1				Comply		1	96102-16	Xhbit Central Station	29,654.03
Total Number of Centrally Monitored Patients per Nurses Station #1	16	Primary RN Station			Comply		2	011-0241-01	Xhbit display	3,372.92
Total Number of Centrally Monitored Patients per Nurses Station #2										
Total Number of Centrally Monitored Patients per Nurses Station #3										
Total Number of Centrally Monitored Patients per Nurses Station #4										
Total Number of Centrally Monitored Patients per Nurses Station #5										
Total Number of Centrally Monitored Patients per Nurses Station #6										
Central Station Remote Display (non-functioning), >=22"	4				Exceeds: Unlimited Licensing		unlimited		ICS Clinical Access	Included
Remote Full Disclosure Terminals / Workstations (in addition to central monitors)	1	Hospital Provides			Hospital to provide					N/A
Uninterruptible Power Supply (UPS)	1									
>=72-hour Full Disclosure at all Central Stations	1				Comply				Included in 72 hour Smart Disclosure on Emergency Department tab (row 18)	Included
>=72-hour Full Disclosure capture all monitored parameters (bed quantity)	16				Comply				Included in 72 hour Smart Disclosure	Included
Bedside & Transport Monitors										
HIGH-ACUITY Bedside 8 trace, >=19" touch screen										
HIGH-ACUITY Bedside 6 trace, >=17" touch screen										
MID-ACUITY Bedside 6 traces, >=15" touch screen										
MID-ACUITY Bedside 6 traces, >=12" touch screen										
MID-ACUITY Bedside 6 traces, >=12" touch screen										
LOW-ACUITY Bedside 4 trace, >=12" touch screen	2	**Wi			Comply		2	Multiple	Qube Monitor (91390)	15,788.04
MID-ACUITY Bedside 6 traces, >=8" touch screen										
LOW-ACUITY Bedside 4 trace, >=8" touch screen										
LOW-ACUITY, Non-ECG Vital Signs Monitor, >=7" touch screen										
Secondary Configurable Display (or Dock w/ Display) 8 trace, >=19" touch screen										
Add 802.11 wireless / Wi-Fi for portable or transport	2	**Wi			Comply		2	91390-P	Wireless (802.11 a/b/g)	1,012.30
Transport 802.11 Wireless Coverage Area (hospital or dedicated WLAN - provide plans)	2	Hospital							see Coverage Area Transport Tab	N/A
Mounts (provide description)	2	rollstands			Comply		2	Multiple	Roll Stand	858.60
Mounts (provide description)										
Bedside Monitor Acuity Options										
ECG	2		X		Comply		2	91496-A	Non-invasive parameter set	8,997.28
Basic Cardiac Arrhythmia										
Advanced Cardiac Arrhythmia	2		X		Comply		2	91496-H	Advanced Multiview Arrhythmia	1,789.28
ST-segment Analysis	2		X		Comply		2	91496-S	ST Segment Analysis	472.76
Custom Trending (Sepsis, ST, Histograms, etc.)	2		X		Comply		14	910-3998-01	ICS Clinical Access Bed License	4,452.00
Respiration	2		X		Comply		2	91496-R	Respirations	609.50
Nellcor / Covidien Pulse oximetry	2		X		Comply		2	91496-N	Nellcor SpO2	1,486.00
Masimo Pulse oximetry										
NIBP	2		X		Comply				Included in Parameter Set	Included
2 invasive pressure capability, at each bedside monitor										
4 invasive pressure capability, at each bedside monitor										
Core temperature (surface - rectal) at each bedside monitor	4	no supplies	X		Comply				Included in Parameter Set Each module can measure two temperatures	Included
Cardiac Output - thermodilution, at each bedside monitor										
12-lead ECG - interpretive & diagnostic	2		X		Comply		2	91496-D	Diagnostic ECG	1,726.74
ETCO2 stationary bedside (# of modules & sensors / beds equipped for concurrent use)										
ETCO2 functional on transport (# of modules & sensors / beds equipped for concurrent use)	2		X		Comply		2	92516-A	Capnospd	6,678.00
BisX (# of modules / beds equipped for concurrent use)										
Multi-Gas / Anesthetic Gas Analysis										
SVO2										
ECG 3 lead cable & lead wires (snap or clip)										
ECG 5 lead cable & lead wires (snap or clip)										
ECG 12 lead cable & lead wires (snap or clip)	2		X						Includes 2 sets lead wires, use together 10 lead, separate for 5 lead	
Supplies: ALL required cables, wires, accessories for functional go-live (Qty indicates# weeks)	2		X		Equal to or greater than a 2 week supply		Multiple	Multiple	5 + 5 ECG cable and lead wire sets Supplies and Accessories	1,050.00 783.03
Telemetry										
Workflow: Device, Communication, Documentation Management System	12		X		Comply		1	Multiple	XTR	35,591.60
ECG only										
ECG & Pulse Oximetry	12		X		Comply		12	Multiple	AriaTele MPT w/ Display	27,607.56
Integrated Display	12		X		Comply		12	Multiple	Included in the transmitter price	Included
Basic Cardiac Arrhythmia										
Advanced Cardiac Arrhythmia	12		X		Comply		1	Multiple	Included in XTR	Included
ST-segment Analysis	12		X		Comply		1	Multiple	Included in XTR	Included
Custom Trending (Sepsis, ST, Histograms, etc.)	12		X		Comply				Included in ICS Clinical Access Bed License	Included
ECG 3 lead cable & lead wires (snap or clip)										
ECG 5 lead cable & lead wires (snap or clip)	12		X		Comply		1	700-0006-32, 700-0008-88	ECG Combiner Adapter and disposable lead wire set (25/box)	855.00
Telemetry Wireless Coverage Area (1.4 MHz - WMTS, provide floor plans)		See Hospital Covered Area =10,000sq ft	X		Comply				See Coverage Area_Telemetry tab for price/details	Included
Data Distribution / IT Integration										

Mangum Regional Hospital Patient Monitor RFP Product Disclosure		Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible devices									
MINIMUM REQUIRED BID SPECIFICATIONS & GUIDELINES		VENDOR RESPONSE SECTION									
As a reference of standard of quality, functionality and operation, the Hospital requests that bids be based on the specific products listed below. All equipment will be NEW and of the bidding manufacturer's most current model utilizing their latest technology.		Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote; requested items must be included in official quote total and may NOT be listed as optional; vendor must include any additional items required for fully functioning solution; including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc... Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED									
 Hospital: Mangum Regional Hospital- Mangum, OK		MedSurg/Tele		Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?		If quoted product varies in name, description or functionality from that requested, provide complete and accurate description		Specific Product Quoted			
		Configuration: 08/03/20	Confirmed by: Daniel Zacht	Yes	No	Partial	Details / Functional Description		Qty	Model / Part #	Product Name
Workflow: Alarm Management Consulting, Diagnostics, & Reporting		14			X		Includes unlimited use and users. This is for all departments. *Price is locked in for 5 years upon signing of contract* (see Emergency Department, row 72)			Included in SafeNSound Standard in Emergency Department	Included
Workflow: Alarm Management Reports (total quantity)		20	Syr qty reports		X		SafeNSound includes Alarm Management Consulting, Diagnostics & reporting with unlimited and on demand reporting.			Included in SafeNSound Standard in Emergency Department	Included
Workflow: Patient Data Transfer / Seamless Full Disclosure Record Across All Depts		14	all depts		X		Comply			Included in ICS Clinical Access Bed License	Included
Workflow: Barcode scanning patient admission (Qty identifies bedside & central)		14			X		Comply			Included in the monitor	Included
Workflow: WAN Connectivity / Multi-facility remote monitoring (telemed)					X		This capability is included in the monitoring system				
Remote Access: Web enabled remote Bedside View (PCs, WoWs, Tablets, etc.)		14			X		Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Remote Access: Web enabled remote Full Disclosure (PCs, WoWs, Tablets, etc.)		14			X		Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Remote Access: Concurrent User License quantity (total for all remote view apps)		5			X		Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Remote Access: Concurrent User License Annual Renewal quantity		5 yrs	Unltd licenses		X		Comply	unlimited		Included in ICS Clinical Access Bed License	Included
Printing: Electronic Strip image Export to EMR (pdf)		14	license & install		X		Comply			see System Requirements for details	Included
Printing: Laser Printer or Network Printer (ALL centrals & bedsidess)		14	Networked		X		Comply			Included in ICS Clinical Access Bed License	Included
Interface: Functioning HL7 Demographics INBOUND from ADT		14			X		Comply	14	910-3999-01	ICS Interface Bed License	2,968.00
Interface: Functioning HL7 Vital Signs OUTBOUND to EMR		14			X		Comply			Included in ICS Interface Bed License	Included
Interface: Alarm Distribution (i.e. secondary alarming to mobile devices)		14	Want Future Capability, include in quote		X		Comply			Included in ICS Interface Bed License	Included
Interface: Ventilator Interface (bedside to EMR)											
Interface: Hemodynamic (CCO) Interface (bedside to EMR)											
Interface: 12-Lead Interface (bedside to EKG archival system)											
Servers: Virtual or Physical		virtual preferred	provide specs *Need Server Rack & UPS		X		Comply			Included as part of ICS licenses	Included
Test Server Application Licensing		yes			X		Comply			Included as part of ICS licenses	Included
Data Center: Local or Remote		Local			X		Comply			Included as part of ICS licenses	Included
Network: Install on Managed / Hospital Network (via VLAN); IEC 80001 compliant		Hospital	via VLAN			X	Comply			Spacelabs monitors can be installed on the hospital's network. IEC 80001-1 compliance is the customer's responsibility. Spacelabs has and follows a risk management process in accordance with ISO 14971:2019 as part of the Quality Management System, which aligns with applicable FDA and AAMI standards for medical devices.	Included
Warranty, Service, Education, Workflow											
Clinical Workflow and Implementation Consulting Program & Follow-up		yes			X		Comply			Included in Clinical Education	
Clinical Training: Online monitor education module		yes	SCORM file		X		Comply			Included in eLearning on the Emergency Department tab (row 96)	Included
Clinical Training: onsite education and go-live support & Follow-up		yes				X	Follow up not included	1	999-0222-51, 999-0222-52	(1) Basic Clinical Education (1) Additional Clinical Support (for go-live)	2,958.50
Clinical Training: How many Nurses (onsite user training)		25	ALL DEPTS		X		Comply	25		Included in Clinical Education	Included
Clinical Training: How many Physicians (onsite user training)		5	ALL DEPTS		X		Comply	5		Included in Clinical Education	Included
Clinical Training: How many Super Users (onsite user training)		4	ALL DEPTS		X		Comply	4		Included in Clinical Education	Included
Biomed Training: operation, preventative maintenance & basic corrective maintenance		yes			X		Comply			Two battions of Level 1&2 Xhibit Telemetry training are provided at no charge as part of your Premier contract. \$9,600 value	Included
Software: HL7 & Clinical App Service Agreement in # of years		5yrs			X		Comply				
Software: Monitor / Central Firmware & Compatibility Service Agreement in # of years		5yrs			X		Comply			Included in Enhanced Software Support on the Emergency Department tab (row 102)	
Hardware: Warranty / Service Parts & Labor Coverage in # of years		5yrs			X		Comply, One year warranty, four years depot repair	4	999-9999-42	Depot Repair (years)	Included
Installation: Complete Installation, Design, Implementation		yes			X		Comply	1	999-9999-97	Installation	5,003.33
Project Management: manage and coordinate all aspects of the project		yes			X		Comply			see System Requirements tab	Included
										Department Total:	153,714.47

Mangum Regional Hospital Patient Monitor RFP Product Disclosure MINIMUM REQUIRED BID SPECIFICATIONS & GUIDELINES <small>As a reference of standard of quality, functionality and operation, the Hospital requests that bids be based on the specific products listed below. All equipment will be NEW and of the bidding manufacturer's most current model utilizing their latest technology.</small>		<small>Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible device</small>							
VENDOR RESPONSE SECTION <small>Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote, requested items must be included in official quote total and may NOT be listed as optional; vendor must include any/all additional items required for fully functioning solution, including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc... Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED</small>		ISO/COVID Configuration: 08/03/20 Confirmed by: Daniel Zach		Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?		If quoted product varies in name, description or functionality from that requested, provide complete and accurate description		Specific Product Quoted	
		Yes	No	Partial	Details / Functional Description	Qty	Model / Part #	Product Name	Extended Price
Central Monitors and / or Full Disclosure									
Number of Nurses Stations in Unit Requiring Centrals (touchscreens >=22")									
Total Number of Centrally Monitored Patients per Nurses Station #1									
Total Number of Centrally Monitored Patients per Nurses Station #2									
Total Number of Centrally Monitored Patients per Nurses Station #3									
Total Number of Centrally Monitored Patients per Nurses Station #4									
Total Number of Centrally Monitored Patients per Nurses Station #5									
Total Number of Centrally Monitored Patients per Nurses Station #6									
Central Station Remote Display (non-functioning), >=22"									
Remote Full Disclosure Terminals / Workstations (in addition to central monitors)									
Uninterruptible Power Supply (UPS)									
>=72-hour Full Disclosure at all Central Stations									
>=72-hour Full Disclosure capture all monitored parameters (bed quantity)									
Warranty, Service, Education, Workflow									
Clinical Workflow and Implementation Consulting Program & Follow-up									
Clinical Training: Online monitor education module									
Clinical Training: onsite education and go-live support & Follow-up									
Clinical Training: How many Nurses (onsite user training)									
Clinical Training: How many Physicians (onsite user training)									
Clinical Training: How many Super Users (onsite user training)									
Biomed Training: operation, preventative maintenance & basic corrective maintenance									
Software: HL7 & Clinical App Service Agreement in # of years									
Software: Monitor / Central Firmware & Compatibility Service Agreement in # of years									
Hardware: Warranty / Service Parts & Labor Coverage in # of years									
Installation: Complete Installation, Design, Implementation									
Project Management: manage and coordinate all aspects of the project									
Spacelabs will supply equipment needed to repeat the signal. Hospital responsible for display, mounting and cable drop.									
Exceeds: Unlimited Licensing									
Spacelabs does not require separate clinical education, licensing, or installation for this unit.									
Included in Clinical Education									
Included in eLearning on the Emergency Department tab (row 96)									
Included in Clinical Education on the Emergency Department tab (row 96)									
Included in Clinical Education on the Emergency Department tab (row 96)									
Included in Clinical Education on the Emergency Department tab (row 96)									
Included in Clinical Education on the Emergency Department tab (row 96)									
Included in Clinical Education on the Emergency Department tab (row 96)									
Included in Clinical Education on the Emergency Department tab (row 96)									
Included in Enhanced Software Support on the Emergency Department tab (row 102)									
Two tuitions of Level 1&2 Xhibit Telemetry training are provided at no charge as part of your Premier contract. \$9,600 value									
Comply, One year warranty, four years depot repair									
Included in Installation not required									
see System Requirements tab									
Department Total: 2,038.36									

Mangum Regional Hospital Patient Monitor RFP Product Disclosure		Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible device										
MINIMUM REQUIRED BID SPECIFICATIONS & GUIDELINES		VENDOR RESPONSE SECTION										
As a reference of standard of quality, functionality and operation, the Hospital requests that bids be based on the specific products listed below. All equipment will be NEW and of the bidding manufacturer's most current model utilizing their latest technology.		Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote; requested items must be included in official quote total and may NOT be listed as optional; vendor must include any/all additional items required for fully functioning solution, including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc. Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED										
 Hospital: Mangum Regional Hospital- Mangum, OK		Biomed Spares		Does QUOTED Item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?		If quoted product varies in name, description or functionality from that requested, provide complete and accurate description		Specific Product Quoted				
		Configuration	Confirmed by	Yes	No	Partial	Details / Functional Description		Qty	Model / Part #	Product Name	Extended Price
		08/03/20	Daniel/zach									
Central Monitors and / or Full Disclosure												
Number of Nurses Stations in Unit Requiring Centrals (touchscreens >=22")	1			X					1	Multiple	Factory Certified Xhibit Central Station, does not include display (96102)	14,827.01
Total Number of Centrally Monitored Patients per Nurses Station #1	16			X							Included in Xhibit Central Station	Included
Total Number of Centrally Monitored Patients per Nurses Station #2												
Total Number of Centrally Monitored Patients per Nurses Station #3												
Total Number of Centrally Monitored Patients per Nurses Station #4												
Total Number of Centrally Monitored Patients per Nurses Station #5												
Total Number of Centrally Monitored Patients per Nurses Station #6												
Central Station Remote Display (non-functioning), >=22"												
Remote Full Disclosure Terminals / Workstations (in addition to central monitors)												
Uninterruptible Power Supply (UPS)												
>=72-hour Full Disclosure at all Central Stations	1			X			Comply				Included in 72 hour Smart Disclosure on Emergency Department tab (row 18)	Included
>=72-hour Full Disclosure capture all monitored parameters (bed quantity)	16			X			Comply				Included in 72 hour Smart Disclosure	Included
Bedside & Transport Monitors												
HIGH-ACUITY Bedside 8 trace, >=19" touch screen												
HIGH-ACUITY Bedside 6 trace, >=17" touch screen												
MID-ACUITY Bedside 6 traces, >=15" touch screen												
MID-ACUITY Bedside 6 traces, >=12" touch screen												
MID-ACUITY Bedside 6 traces, >=12" touch screen												
LOW-ACUITY Bedside 4 trace, >=12" touch screen												
MID-ACUITY Bedside 6 traces, >=8" touch screen												
LOW-ACUITY Bedside 4 trace, >=8" touch screen	1		*Wifi	X			Comply	1	Multiple	Factory Certified Qube Mini (91389)	3,740.59	
LOW-ACUITY, Non-ECG Vital Signs Monitor, >=7" touch screen												
Secondary Configurable Display (or Dock w/ Display) 8 trace, >=19" touch screen												
Add 802.11 wireless / Wi-Fi for portable or transport	1			X			Comply	1	91390-P	Factory Certified Wireless (802.11 a/b/g)	281.92	
Transport 802.11 Wireless Coverage Area (hospital or dedicated WLAN - provide plans)	Hospital			X						see Coverage Area Transport Tab	N/A	
Mounts (provide description)												
Mounts (provide description)												
Bedside Monitor Acuity Options												
ECG	1			X			Comply	1	91496-A	Non-invasive parameter set	2,436.44	
Basic Cardiac Arrhythmia												
Advanced Cardiac Arrhythmia	1			X			Comply	1	91496-H	Advanced Multiview Arrhythmia	894.64	
ST-segment Analysis	1			X			Comply	1	91496-S	ST Segment Analysis	236.38	
Custom Trending (Sepsis, ST, Histograms, etc.)	1				X					Not needed for Biomed Spares		
Respiration	1			X			Comply	1	91496-R	Respirations	304.75	
Nellcor / Covidien Pulse oximetry	1			X			Comply	1	91496-N	Nellcor SpO2	743.00	
Masimo Pulse oximetry												
NIBP	1			X			Comply			Included in Parameter Set	Included	
2 invasive pressure capability, at each bedside monitor												
4 invasive pressure capability, at each bedside monitor												
Core temperature (surface - rectal) at each bedside monitor	2		no supplies	X			Comply			Included in Parameter Set Each module can measure two temperatures	Included	
Cardiac Output - thermofluidation, at each bedside monitor												
12-lead ECG - interpretive & diagnostic	1			X			Comply	1	91496-D	Diagnostic ECG	863.37	
ETCO2 stationary bedside (# of modules & sensors / beds equipped for concurrent use)												
ETCO2 functional on transport (# of modules & sensors / beds equipped for concurrent use)												
BISx (# of modules / beds equipped for concurrent use)												
Multi-Gas / Anesthetic Gas Analysis												
SVO2												
ECG 3 lead cable & lead wires (snap or clip)												
ECG 5 lead cable & lead wires (snap or clip)	1		Disposable reusable		X		Comply	1	700-0008-56	5 + 5 ECG cable only	150.00	
ECG 12 lead cable & lead wires (snap or clip)												
Supplies: ALL required cables, wires, accessories for functional go-live (Qty indicates# weeks)			no supplies									
Warranty, Service, Education, Workflow												
Clinical Workflow and Implementation Consulting Program & Follow-up												
Clinical Training: Online monitor education module												
Clinical Training: onsite education and go-live support & Follow-up												
Clinical Training: How many Nurses (onsite user training)												
Clinical Training: How many Physicians (onsite user training)												
Clinical Training: How many Super Users (onsite user training)												
Biomed Training: operation, preventative maintenance & basic corrective maintenance												
Software: HL7 & Clinical App Service Agreement in # of years												
Software: Monitor / Central Firmware & Compatibility Service Agreement in # of years												
Hardware: Warranty / Service Parts & Labor Coverage in # of years										Factory certified receives one year warranty		
Installation: Complete Installation, Design, Implementation												
Project Management: manage and coordinate all aspects of the project												

Mangum Regional Hospital Patient Monitor RFP Product Disclosure	<i>Mangum Regional Hospital enterprise-wide Bedside Monitors & Telemetry with Seamless Patient Full Disclosure (Data Transfer) across all departments, Enterprise-level patient data aggregation and access for data mining & reports, Mangum Regional Hospital / Enterprise-Level Bi-Directional Vital Signs & ADT Integration, Remote Clinician Access to monitor data from any networked or network accessible device</i>					
MINIMUM REQUIRED BID SPECIFICATIONS & GUIDELINES As a reference of standard of quality, functionality and operation, the Hospital requests that bids be based on the specific products listed below. All equipment will be NEW and of the bidding manufacturer's most current model utilizing their latest technology.	VENDOR RESPONSE SECTION Vendor Response Section MUST be completed in full for consideration; all products must precisely align with official quote; requested items must be included in official quote total and may NOT be listed as optional; vendor must include any/all additional items required for fully functioning solution, including, but not limited to network, design, Professional Services, installation, hardware, software, licensing, etc... Vendor's representative shall be responsible for satisfactory installation of the complete and functioning system. ALL VENDOR QUOTES MUST INCLUDE 5-YEAR TOTAL COST OF OWNERSHIP FOR FUNCTIONING SOLUTION AS SPECIFIED					
Hospital: Mangum Regional Hospital- Mangum, OK	Biomed Spares	Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?	If quoted product varies in name, description or functionality from that requested, provide complete and accurate description	Specific Product Quoted		
		Yes No Partial	Details / Functional Description	Qty	Model / Part #	Product Name
Configuration: 08/03/20 Confirmed by: Danielle Zacht		Department Total: 24,478.10				

Mangum Regional Hospital Patient Monitoring System Requirements 1.4GHz WMTS Telemetry Coverage Area			Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?			If quoted product varies in name, description or functionality from that requested, provide complete and accurate description	Extended Price
Building	Department	Coverage Area (Sq. Ft.)	Yes	No	Partial	Details / Functional Description	
Mangum Regional Hospital	Areas Specified	10,000	X			5 powered, 3 unpowered Multiband antenna kits	\$21,464.00
		**Approximate, please confirm					
Total		10,000					\$21,464.00

*See attached drawings

Mangum Regional Hospital Patient Patient Monitoring System Wireless Transport & Wireless Monitor Coverage Area			Does QUOTED item FULLY comply w/ Required Bid Specs & Guidelines as STATED BY HOSPITAL?			If quoted product varies in name, description or functionality from that requested, provide complete and accurate description	Extended Price
Building	Department	Coverage Area (Sq. Ft.)	Yes	No	Partial		
Mangum Regional Hospital	Areas Specified	10,000			X	We will use existing hospital infrastructure	\$0.00
		**Approximate, please confirm					
Total		10,000					\$0.00

*See attached drawings

Mangum City Hospital Value Summary

Quotation Summary

Department Name	Quote Total
Emergency Department	\$100,156.06
MedSurg – Tele	\$153,714.47
ISO-Covid	\$2,038.36
Biomed Spares	\$24,478.10
Telemetry Coverage Area	\$21,464.00
System Requirements	\$13,525.00
Trade-in Discount	\$18,262.85
Quote Total	\$297,113.14

Spacelabs Partnership Value Adds

Clinical Education	Basic Clinical Education is included at no charge	\$9,700 value
eLearning	Initial year of eLearning is included at no charge	\$3,000 value
SafeNSound Implementation	Implementation for SafeNSound Standard has been included a no charge	\$5,000 value
Depot Repair	Four years of post-warranty Depot Repair for capital equipment is included at no charge. This provides a total of five years of service on your capital equipment.	\$65,149 value
Technical Training	Two biomed training tuition credits per facility for Level 1 and 2 courses for patient monitoring and telemetry products.	\$19,200 value
Trade-in Discount	Trade-in of existing Spacelabs equipment.	\$18,029
Total of Partnership Value Adds:		\$120,078

Proposal Summary

Mangum City Hospital
 1 Wickersham
 Mangum OK 73554

Quote Number:2020-206478 Rev. 3
 Expiration Date: December 14, 2020

Department	List Price	Net Price
Emergency Dept. Secondary RN Station: 16-Zone Xhibit RIC Central Station and ED Office Remote Display Solution [qty 1]; Mangum to provide Display & Mounting Solution for Remote Display	\$32,998.57	\$16,475.47
Emergency Dept: Wireless Qube ECG Monitor with A-Module, Capnospod on Roll Stand [qty 2]	\$104,625.06	\$47,131.14
Med/Surg Dept Main RN Station: Xhibit 16-Zone Central Monitor [qty 1]; Customer will provide own UPS unless requested [qty 1]	\$74,624.25	\$34,705.49
Med/Surg Dept: Wireless Qube ECG Monitor with A-Module, Capnospod on Roll Stand [qty 2]	\$89,999.91	\$42,607.69
Med/Surg Dept: 1.4 MHz Aria Tele Tx with Display & SpO2 & 1.4 MHz XTR Tele Rcvr [qty 12]; Tele WTMS Multiband Antennas [10 PWR / 6 No PWR]	\$179,940.22	\$91,074.74
COVID RN Station Remote Display Solution [qty 1]; Mangum to provide Display & Mounting Solution for Remote Display	\$2,038.36	\$2,038.36
BIOMED BACKUP Equipment: Factory Certified 16-Zone Xhibit Central Station CPU, Wireless Qube Mini ECG Monitor & "C" Command Module [1 qty each]; comes with 1 Year Warranty	\$66,746.46	\$24,478.10
BIOMED Training [2 Credits Each for Levels I&II]	\$19,200.00	\$0.00
ICS Bundled Bed Licenses [16 QTY]	\$24,779.78	\$16,980.00
ICS Clinical Access, ADT, and Vital Signs Interface implementation. For facilities with no more than 25 monitored beds.	\$6,700.00	\$5,025.00
SafeNSound STANDARD Year 1 of 5 Year Contract for \$6,000 per Year [16 Devices]	\$35,000.00	\$30,000.00
Enhanced Software Support Plan Years 2-5	\$6,480.00	\$4,860.00
Premier Tier Equipment Trade-In Discount	\$0.00	\$-18,262.85
Total List Price.....		\$643,132.61
Total Discount.....		\$346,019.47
Total Proposal Price.....		\$297,113.14

Pricing within this quote is contingent upon signing of Premier Tier 4 Letter of Commitment (LOC) prior to PO submission.

Upon acceptance, please sign and return this quotation, together with your purchase order, to Sales Support via fax at ****425-363-5761**** or email it to po.us@spacelabs.com.

By accepting this quotation or by performing hereunder, the customer identified above ("Customer") agrees to purchase or lease (as applicable) the products identified herein subject to the terms of this Customer Quotation and Spacelabs Healthcare's Subscription Software Terms (in the case of SafeNSound) or Spacelabs Terms of Sale (in the case of all other products). The terms are available on the About Us/Terms/Policies page of our website at <http://www.spacelabshealthcare.com>. The applicable terms are incorporated herein by this reference. Notwithstanding the foregoing, if Customer has a separate contractual agreement in place with Spacelabs Healthcare relating to the products identified herein (such as a group purchasing agreement, distribution agreement, or master purchasing agreement), the terms of that contractual agreement shall control to the extent such terms conflict with the applicable terms.

Accepted By:

Authorized Signature

Customer Purchase Order Number

Title

Date

Email Address for order confirmation

Telephone Number

Tax Exemption Number (if any)

Requested Delivery Date

This quotation shall remain firm for 60 days unless otherwise stated. Delivery: 21 days after acknowledgement of order, unless otherwise noted in this quotation.

The pricing in this quotation reflects your Premier Healthcare Alliance pricing per contract PP-MM-623. Payment terms are per your contract. FOB is factory. Freight and insurance are no charge. Warranty is per the terms of your contract.

Depot Support

After the standard 12-month warranty has expired, Company agrees to provide all Spare Parts and labor necessary for the repair of any Equipment failure which may require corrective action upon Customer's return of Equipment to Company's facility ("Depot Support"). Such Depot Support shall be provided as follows:

Customer agrees to promptly notify Company by phone of any Equipment failure, which may require corrective action. If Equipment issues cannot be resolved telephonically through good faith efforts of the parties, Company shall provide at Company's facility all Spare Parts and labor necessary for the repair of any Equipment failure that may require corrective action. Customer shall be responsible for all freight and insurance charges in shipping the Equipment to Company; risk of loss shall pass to Company only upon receipt of the Equipment. Company shall pay all costs for return shipment to Customer.

Company shall, within the limits of equipment availability, use reasonable efforts to satisfy Customer's requests for loan equipment, prior to requests from customers not covered by a warranty or similar agreement.

"Spare Part(s)" mean replaceable spare parts and assemblies used in the Equipment and listed in the Company Spare Part Price List. Spare Parts do not include disposable or user parts that must be routinely replaced, items listed in the Supplies & Accessories Price List, or computer products and peripheral devices not manufactured by Company or produced on Company's behalf. Any original Spare Part for which Company has supplied a replacement Spare Part shall become the property of Company. Any replacement Spare Part shall have equivalent function and performance as the original Spare Part, when new. Company reserves the right to use a refurbished part as a replacement Spare Part.

The Spacelabs Ultraview SL network supports clinical network sizes up to 1000 nodes. Networks consisting of mixed generations of Spacelabs devices may have lower capacities depending on specific models and age of equipment. Alarm Watch and Remote View functionality directly affect maximum network size. Please consult your field service engineer to determine the maximum size and functionality for your specific Spacelabs network.

Spacelabs Healthcare's installation is based upon the use of standard PVC jacketed interconnecting cables. If local conditions or regulations require use of plenum-rated cabling, 10BaseT is available at no additional charge (please specify on your purchase order). Plenum-rated 10Base5 (AUI and MAU) cabling requires an additional charge of \$1.00 per foot. Any SDLC cables quoted herein are not plenum rated and may need to be run in hospital conduit to comply with local regulations.

An estimated antenna system is included with the quoted Telemetry System. A Pre-Installation Questionnaire (PIQ) will need to be completed to determine the exact antenna requirements for the hospital's particular installation. Associated costs will vary dependent upon the size and complexity of the installation.

Spacelabs Healthcare's telemetry antenna installation is based upon the use of standard PVC jacketed interconnecting cables. If local conditions or regulations require use of plenum-rated cabling, antenna kits specifying that plenum-rated cable is included must be purchased. If, upon completion of the Pre-Installation Questionnaire by our local FSE, additional plenum cabling is required (beyond that which is included in the antenna kits), Spacelabs will charge \$1.00 per foot for the additional plenum-rated cable.

Wireless Monitors

Prior to an acceptance of a purchase order for the wireless monitors quoted herein, Spacelabs Healthcare requires a Signed Acknowledgement regarding the Hospital's decision to have a Site Qualification Survey performed to validate the wireless coverage area.

To determine the costs associated with the Site Qualification Survey (SQS), Spacelabs will need some basic information from the Hospital. Cooperation of hospital employee's should be expected in providing such information. Your Spacelabs Sales Executive will email a link to a web based Site Profile Form to the IT department. The responses to this form will immediately be forwarded to our Wireless Team upon completion by your Hospital representative. This information will allow Spacelabs to provide the Hospital with a quote for the Site Qualification Survey. The cost of this service varies and is dependent upon network design and size of the coverage area. The Site Qualification Survey will be an additional expense incurred by the Hospital.

In some instances the quote for this Site Qualification Survey is included within the enclosed wireless monitoring quote. However, if the cost for the Site Qualification Survey is not already included within, the Hospital will receive a separate quote for such services from Spacelabs or our network design partner, **Global Technology Resources, Inc. (GTRI)**. The quote for the SQS will be delivered to the Hospital within one day of receipt of the completed Site Profile Form. A follow-up call will be scheduled with the Hospital to review the quote and to answer any questions regarding its necessity. The Hospital will need to review the quote for the SQS services and inform Spacelabs of their decision to proceed with an SQS. Hospital will be asked to sign an Acknowledgement confirming whether or not they would like to proceed with the Site Qualification Survey or not. Spacelabs cannot accept a P.O. for the wireless monitors until such signed Acknowledgement has been received.

Upon acceptance of the P.O. for the Site Qualification Survey, Spacelabs or our partner, **GTRI**, will contact the Hospital to schedule a mutually convenient time for performance of the SQS at the Hospital site. Once the SQS is completed, a detailed report will be provided to the Hospital which may or may not include possible modifications to the infrastructure to ensure optimal performance of Spacelabs wireless monitors. The cost for such modifications is the responsibility of the Hospital and all work must be completed by an authorized vendor approved by Spacelabs Healthcare.

Data shuttle has been quoted herein. In order for the concept of data shuttle to be used correctly, the hospital must have data shuttle on the transport monitor and data shuttle on the receiving or originating monitor.

Installation and professional services have been included as an estimate based on the requirements as they are currently understood. Significant deviations from the quote may incur additional charges. The Scope of Work is mutually agreed upon during the planning phase of the project and will govern the implementation. Factory Certified product does not receive installation, clinical or biomedical training, and has a one year warranty. Any Subsequent Warranty Agreed Coverage via depot repair in your contract with Spacelabs, if any, will not apply to Factory Certified products. Purchase is subject to availability of Factory Certified items at the time of order.

Spacelabs is committed to the safety and wellbeing of our customers and staff. In order to prevent the spread of the virus, products purchased during the COVID-19 crisis cannot be returned or exchanged.

Emergency Dept. Secondary RN Station: 16-Zone Xhibit RIC Central Station and ED Office Remote Display Solution [qty 1]; Mangum to provide Display & Mounting Solution for Remote Display

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Xhibit Remote Interactive Client	96102-16C	1	22,769.00	12,067.57	12,067.57
2	Depot Support Plan. Unit price is per year. Monitoring Products only.	999-9999-42	4	1,024.61	0.00	0.00
3	Enhanced Software Support Plan (ICS/XprezzNet/Xhibit). Unit price is per year.	999-1898-00	1	341.54	256.16	256.16
4	Operation Manual, CD, Xhibit/Telemetry	084-2301-06	1	0.00	0.00	0.00
5	Service Manual, CD, Xhibit/Telemetry	084-1479-06	1	0.00	0.00	0.00
6	Splitter display port 4WAY 96102	010-1975-00	1	949.58	949.58	949.58
7	DP to HDMI converter	P136-06N-ACT	1	70.00	70.00	70.00
8	Cable, HDMI, 6ft, black	012-0993-00	2	17.33	17.33	34.66
9	HDMI over IP extender	ST12MHDLAN	1	950.00	950.00	950.00
10	Cable, Display Port, Latching, 6ft	012-1013-00	1	34.12	34.12	34.12
11	Xhibit display, 22" high resolution touchscreen	011-0241-01	1	3,182.00	\$1,686.46	1,686.46
12	Installation	999-9999-97	1	569.23	\$426.92	426.92
Emergency Dept. Secondary RN Station: 16-Zone Xhibit RIC Central Station and ED Office Remote Display Solution [qty 1]; Mangum to provide Display & Mounting Solution for Remote Display Total						\$16,475.47

Emergency Dept: Wireless Qube ECG Monitor with A-Module, Capnpod on Roll Stand [qty 2]

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	qube Compact Monitor	91390	2	0.00	0.00	0.00
2	qube Compact Monitor, base unit	91390-A	2	11,515.00	6,102.95	12,205.90
3	English Language	91390-1	2	0.00	0.00	0.00
4	Four Waveforms	91390-04	2	1,315.00	696.95	1,393.90
5	Data Shuttle	91390-Q	2	450.00	238.50	477.00
6	Full View	91390-V	2	710.00	376.30	752.60
7	Full Bed Review	91390-W	2	665.00	352.45	704.90
8	Wireless (802.11 a/b/g)	91390-P	2	955.00	506.15	1,012.30
9	Up to 8 Hour Battery Operation	91390-Z	2	204.10	108.17	216.34
10	Ultraview SL Command Module	91496	2	0.00	0.00	0.00
11	English Language	91496-1	2	0.00	0.00	0.00
12	Non-Invasive Parameter Set	91496-A	2	8,488.00	4,498.64	8,997.28
13	Advanced Multiview Arrhythmia (MVII)	91496-H	2	1,688.00	894.64	1,789.28
14	Nellcor SpO2	91496-N	2	743.00	743.00	1,486.00
15	12-lead diagnostic ECG with measurements and interpretation	91496-D	2	1,629.00	863.37	1,726.74
16	Adult/Neonatal Respiration	91496-R	2	575.00	304.75	609.50
17	ST Segment Analysis	91496-S	2	446.00	236.38	472.76
18	Capnography Pod	92516	2	0.00	0.00	0.00
19	English Language	92516-1	2	0.00	0.00	0.00
20	Capnography Pod, base unit	92516-A	2	6,300.00	3,339.00	6,678.00
21	Basic CEC Support. Includes 3 consecutive weekdays of customized clinical training (workflow process development, alarm management, eLearning administration). Up to 7 hours of class time per day, between the hours of 8 A.M. and 8 P.M.	999-0222-51	1	4,850.00	0.00	0.00
22	Additional Week of Clinical Support. Includes 3 consecutive weekdays of support. Up to 7 hours of class time per day, between the hours of 8 A.M. and 8 P.M. Required for units with >50 users to train and/or >11 beds.	999-0222-52	1	4,850.00	2,958.50	2,958.50
23	Interactive eLearning Bundle. Bundled 1 year eLearning for monitoring devices, surveillance and Clinical Access (TOS subscription).	999-0503-27	1	3,000.00	0.00	0.00

24	eLearning Upgrade to Include SCORM Files. Upgrade to 5 years eLearning of all monitoring products, licensed for use in customer learning management system (LMS), subject to separate letter agreement between customer and Spacelabs (TOS only).	999-0503-30	1	950.00	950.00	950.00
25	Depot Support Plan. Unit price is per year. Monitoring Products only.	999-9999-42	4	3,254.77	0.00	0.00
26	Roll Stand, Quick Release with Drop-In Backplate	016-0940-00	2	330.00	330.00	660.00
27	Universal Power Supply Holster, Rollstand Mounted	016-0760-00	2	110.00	58.30	116.60
28	Mounting Adapter Plate, Quick Release, for Mounts with Drop-In Backplate	016-0942-00	2	41.00	41.00	82.00
29	ECG combiner disp lead wire set,5L, multi-pinch, AAMI, 127cm/50 in, 25/bx	700-0006-32	1	510.00	375.00	375.00
30	Nellcor OxiMax DS-100A finger sensor, adult	690-0003-01	2	150.00	74.63	149.26
31	BP hose, single tube, adult	714-0018-00	2	100.00	34.30	68.60
32	BP hose, single tube, neonatal	714-0019-01	2	100.00	21.30	42.60
33	BP cuff, SoftCheck vinyl neonatal, 1T, size 3, 6-11cm, M316, 10/bx	VNN3ST-M316-10	1	31.05	22.50	22.50
34	BP cuff, SoftCheck vinyl neonatal, 1T, size 4, 7-13cm, M316, 10/bx	VNN4ST-M316-10	1	31.05	22.50	22.50
35	BP cuff, SoftCheck vinyl neonatal, 1T, size 5, 8-15cm, M316, 10/bx	VNN5ST-M316-10	1	31.05	22.50	22.50
36	BP cuff, TruLink vinyl, 1T, adult, 26-35cm, HP, 5/bg	715-1142-10	1	25.00	17.65	17.65
37	BP cuff, TruLink vinyl, 1T, lg adult, 32-42cm, HP, 5/bg	715-1162-10	1	32.20	20.08	20.08
38	LABEL,HANDLE,MODULE,DEEPRED	334-5934-07	2	2.91	2.91	5.82
39	CO2 Nomoline adapter, sidestream, FLL, multi-use, 25/bx	103-0234-00	1	549.00	411.75	411.75
40	CO2 nasal cannula w/O2 delivery, MLL, adult, 2.1m/7 ft, 25/cs	704-0181-00	1	133.00	93.10	93.10
41	Nellcor OxiMax sensor adapter cable	700-0792-00	2	362.00	260.81	521.62
42	ECG combiner cable, 5+5-Lead Spacelabs monitors, AAMI	700-0008-56	2	250.00	150.00	300.00
43	ECG combiner disp lead wire set, 5V, multi-pinch, 127cm/50 in, 25/bx	700-0006-33	1	510.00	375.00	375.00

44	Patient Monitoring Service Manual, CD-ROM	084-0700-03	1	0.00	\$0.00	0.00
45	Ultraview SL Network Operations Manual, CD-ROM, English	084-1101-05	1	0.00	\$0.00	0.00
46	Power Cord	161-0032-00	2	18.70	\$18.70	37.40
47	Installation	999-9999-97	1	1,808.21	\$1,356.16	1,356.16
Emergency Dept: Wireless Qube ECG Monitor with A-Module, Capnospod on Roll Stand [qty 2] Total						\$47,131.14

Med/Surg Dept Main RN Station: Xhibit 16-Zone Central Monitor [qty 1]; Customer will provide own UPS unless requested [qty 1]

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Xhibit Central Station	96102	1	0.00	0.00	0.00
2	Xhibit central station, base Computer	96102-B	1	0.00	0.00	0.00
3	Xhibit central station, 16 bed bundle	96102-16	1	55,951.00	29,654.03	29,654.03
4	Single patient license for Xhibit central station	910-6102-01	16	0.00	0.00	0.00
5	Depot Support Plan. Unit price is per year. Monitoring Products only.	999-9999-42	4	2,517.80	0.00	0.00
6	Enhanced Software Support Plan (ICS/XprezzNet/Xhibit). Unit price is per year.	999-1898-00	1	839.27	629.45	629.45
7	Operation Manual, CD, Xhibit/Telemetry	084-2301-06	1	0.00	0.00	0.00
8	Service Manual, CD, Xhibit/Telemetry	084-1479-06	1	0.00	0.00	0.00
9	Xhibit display, 22" high resolution touchscreen	011-0241-01	2	3,182.00	\$1,686.46	3,372.92
10	Installation	999-9999-97	1	1,398.78	\$1,049.09	1,049.09
Med/Surg Dept Main RN Station: Xhibit 16-Zone Central Monitor [qty 1]; Customer will provide own UPS unless requested [qty 1]						\$34,705.49
Total						

Med/Surg Dept: Wireless Qube ECG Monitor with A-Module, Capnoped on Roll Stand [qty 2]

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	qube Compact Monitor	91390	2	0.00	0.00	0.00
2	qube Compact Monitor, base unit	91390-A	2	11,515.00	6,102.95	12,205.90
3	English Language	91390-1	2	0.00	0.00	0.00
4	Four Waveforms	91390-04	2	1,315.00	696.95	1,393.90
5	Data Shuttle	91390-Q	2	450.00	238.50	477.00
6	Full View	91390-V	2	710.00	376.30	752.60
7	Full Bed Review	91390-W	2	665.00	352.45	704.90
8	Wireless (802.11 a/b/g)	91390-P	2	955.00	506.15	1,012.30
9	Up to 8 Hour Battery Operation	91390-Z	2	204.10	108.17	216.34
10	Ultraview SL Command Module	91496	2	0.00	0.00	0.00
11	English Language	91496-1	2	0.00	0.00	0.00
12	Non-Invasive Parameter Set	91496-A	2	8,488.00	4,498.64	8,997.28
13	Advanced Multiview Arrhythmia (MVII)	91496-H	2	1,688.00	894.64	1,789.28
14	Nellcor SpO2	91496-N	2	743.00	743.00	1,486.00
15	12-lead diagnostic ECG with measurements and interpretation	91496-D	2	1,629.00	863.37	1,726.74
16	Adult/Neonatal Respiration	91496-R	2	575.00	304.75	609.50
17	ST Segment Analysis	91496-S	2	446.00	236.38	472.76
18	Capnography Pod	92516	2	0.00	0.00	0.00
19	English Language	92516-1	2	0.00	0.00	0.00
20	Capnography Pod, base unit	92516-A	2	6,300.00	3,339.00	6,678.00
21	Depot Support Plan. Unit price is per year. Monitoring Products only.	999-9999-42	4	3,254.77	0.00	0.00
22	Roll Stand, Quick Release with Drop-In Backplate	016-0940-00	2	330.00	330.00	660.00
23	Universal Power Supply Holster, Rollstand Mounted	016-0760-00	2	110.00	58.30	116.60
24	Mounting Adapter Plate, Quick Release, for Mounts with Drop-In Backplate	016-0942-00	2	41.00	41.00	82.00
25	ECG combiner disp lead wire set,5L, multi-pinch, AAMI, 127cm/50 in, 25/bx	700-0006-32	1	510.00	375.00	375.00
26	Nellcor OxiMax DS-100A finger sensor, adult	690-0003-01	2	150.00	74.63	149.26
27	BP hose, single tube, adult	714-0018-00	2	100.00	34.30	68.60
28	BP cuff, TruLink vinyl, 1T, adult, 26-35cm, HP, 5/bg	715-1142-10	1	25.00	17.65	17.65
29	BP cuff, TruLink vinyl, 1T, lg adult, 32-42cm, HP, 5/bg	715-1162-10	1	32.20	20.08	20.08
30	LABEL,HANDLE,MODULE,DEEPRED	334-5934-07	2	2.91	2.91	5.82

31	Nellcor OxiMax sensor adapter cable	700-0792-00	2	362.00	260.81	521.62
32	ECG combiner cable, 5+5-Lead Spacelabs monitors, AAMI	700-0008-56	2	250.00	150.00	300.00
33	ECG combiner disp lead wire set, 5V, multi-pinch, 127cm/50 in, 25/bx	700-0006-33	1	510.00	375.00	375.00
34	Patient Monitoring Service Manual, CD-ROM	084-0700-03	1	0.00	\$0.00	0.00
35	Ultraview SL Network Operations Manual, CD-ROM, English	084-1101-05	1	0.00	\$0.00	0.00
36	Power Cord	161-0032-00	2	18.70	\$18.70	37.40
37	Installation	999-9999-97	1	1,808.21	\$1,356.16	1,356.16
Med/Surg Dept: Wireless Qube ECG Monitor with A-Module, Capnopod on Roll Stand [qty 2] Total						\$42,607.69

**Med/Surg Dept: 1.4 MHz Aria Tele Tx with Display & SpO2 & 1.4 MHz XTR Tele Rcvr [qty 12]; Tele WTMS
 Multiband Antennas [10 PWR / 6 No PWR]**

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	AriaTele Telemetry Transmitter	96281	12	0.00	0.00	0.00
2	ECG and SpO2 Transmitter with Display	96281-C	12	4,200.00	2,226.00	26,712.00
3	T&V Band (1400 MHz)	96281-09	12	0.00	0.00	0.00
4	Wideband (50 kHz bandwidth)	96281-W	12	0.00	0.00	0.00
5	5-lead, AHA/AAMI color code	96281-J	12	0.00	0.00	0.00
6	Xhibit Telemetry Receiver	96280	1	0.00	0.00	0.00
7	Xhibit Telemetry Receiver, Base	96280-A	1	0.00	0.00	0.00
8	T Band Receiver, 1395-1400 MHz	96280-T	1	0.00	0.00	0.00
9	Xhibit Telemetry Receiver Housing, 12 Patient Bundle	96280-12	1	66,700.00	35,351.00	35,351.00
10	Quad Receiver, T Band, 96280	96280--T	3	0.00	0.00	0.00
11	Active antenna kit, MultiBand WMTS, with 110v power supply	040-1428-03	5	2,800.00	2,800.00	14,000.00
12	Active antenna kit, MultiBand WMTS, without power supply	040-1429-04	3	2,488.00	2,488.00	7,464.00
13	Basic CEC Support. Includes 3 consecutive weekdays of customized clinical training (workflow process development, alarm management, eLearning administration). Up to 7 hours of class time per day, between the hours of 8 A.M. and 8 P.M.	999-0222-51	1	4,850.00	0.00	0.00
14	Depot Support Plan. Unit price is per year. Monitoring Products only.	999-9999-42	4	6,235.38	0.00	0.00
15	Nellcor OxiMax DS-100A finger sensor, adult	690-0003-01	12	150.00	74.63	895.56
16	ECG combiner adapter, Aria Telemetry, 96281, AAMI	700-0008-88	12	60.00	40.00	480.00
17	ECG combiner disp lead wire set,5L, multi-pinch, AAMI, 127cm/50 in, 25/bx	700-0006-32	1	510.00	375.00	375.00
18	CD-ROM, Manual, Ops, 96281, ariaTele	084-2201-01	1	0.00	0.00	0.00
19	AriaTele Service Manual, CD-ROM	084-2202-01	1	0.00	0.00	0.00
20	Operation Manual, CD, Xhibit/Telemetry	084-2301-06	1	0.00	0.00	0.00
21	Service Manual, CD, Xhibit/Telemetry	084-1479-06	1	0.00	0.00	0.00
22	Additional Week of Clinical Support. Includes 3 consecutive weekdays of support. Up to 7 hours of class time per day, between the hours of 8 A.M. and 8 P.M. Required for units with >50 users to train and/or >11 beds.	999-0222-52	1	4,850.00	2,958.50	2,958.50

23	Power Cord, North America, 3 ft, 120V, 10A	161-0246-00	6	40.10	\$40.10	240.60
24	Installation	999-9999-97	1	3,464.10	\$2,598.08	2,598.08
Med/Surg Dept: 1.4 MHz Aria Tele Tx with Display & SpO2 & 1.4 MHz XTR Tele Rcvr [qty 12]; Tele WTMS Multiband Antennas [10 PWR / 6 No PWR] Total						\$91,074.74

COVID RN Station Remote Display Solution [qty 1]; Mangum to provide Display & Mounting Solution for Remote Display

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Splitter display port 4WAY 96102	010-1975-00	1	949.58	949.58	949.58
2	DP to HDMI converter	P136-06N-ACT	1	70.00	70.00	70.00
3	Cable, HDMI, 6ft, black	012-0993-00	2	17.33	17.33	34.66
4	HDMI over IP extender	ST12MHDLAN	1	950.00	950.00	950.00
5	Cable, Display Port, Latching, 6ft	012-1013-00	1	34.12	34.12	34.12
COVID RN Station Remote Display Solution [qty 1]; Mangum to provide Display & Mounting Solution for Remote Display Total						\$2,038.36

BIOMED BACKUP Equipment: Factory Certified 16-Zone Xhibit Central Station CPU, Wireless Qube Mini ECG Monitor & "C" Command Module [1 qty each]; comes with 1 Year Warranty

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Factory Certified Discount for receiving a factory certified 91389 Qube Mini Monitor	999-SVCD-91389	1	-3,842.69	-3,842.69	-3,842.69
2	Qube Mini Transport Monitor	91389	1	0.00	0.00	0.00
3	Qube Mini, base unit	91389-A	1	9,000.00	4,770.00	4,770.00
4	Six Waveforms	91389-06	1	2,200.00	1,166.00	1,166.00
5	Data Shuttle	91389-Q	1	450.00	238.50	238.50
6	Patient Data Logger (PDL)	91389-R	1	950.00	503.50	503.50
7	Full View	91389-V	1	710.00	376.30	376.30
8	Full Bed Review	91389-W	1	655.00	347.15	347.15
9	English Language	91389-1	1	0.00	0.00	0.00
10	Wireless (802.11 a/b/g)	91389-P	1	531.92	281.92	281.92
11	Factory Certified Discount for receiving a factory certified 91496 Command Module	999-SVCD-91496	1	-5,478.58	-5,478.58	-5,478.58
12	Ultraview SL Command Module	91496	1	0.00	0.00	0.00
13	Invasive/Cardiac Output Parameter Set	91496-C	1	12,800.00	6,784.00	6,784.00
14	12-lead diagnostic ECG with measurements and interpretation	91496-D	1	1,629.00	863.37	863.37
15	Advanced Multiview Arrhythmia (MVII)	91496-H	1	1,688.00	894.64	894.64
16	Adult/Neonatal Respiration	91496-R	1	575.00	304.75	304.75
17	ST Segment Analysis	91496-S	1	446.00	236.38	236.38
18	Varitrend 4	91496-V	1	2,134.00	1,131.02	1,131.02
19	English Language	91496-1	1	0.00	0.00	0.00
20	Nellcor SpO2	91496-N	1	743.00	743.00	743.00
21	Factory Certified Discount for receiving a factory certified 96102 Xhibit Central Station	999-SVCD-96102	1	-14,827.02	-14,827.02	-14,827.02
22	Xhibit Central Station	96102	1	0.00	0.00	0.00
23	Xhibit central station, base Computer	96102-B	1	0.00	0.00	0.00
24	Xhibit central station, 16 bed bundle	96102-16	1	55,951.00	29,654.03	29,654.03
25	Single patient license for Xhibit central station	910-6102-01	16	0.00	0.00	0.00
26	Power Supply	119-0480-02	1	163.13	163.13	163.13

27	ECG combiner cable, 5+5-Lead Spacelabs monitors, AAMI	700-0008-56	1	250.00	150.00	150.00
28	Power Cord	161-0032-00	1	18.70	\$18.70	18.70
BIOMED BACKUP Equipment: Factory Certified 16-Zone Xibit Central Station CPU, Wireless Qube Mini ECG Monitor & "C" Command Module [1 qty each]; comes with 1 Year Warranty Total						\$24,478.10

BIOMED Training [2 Credits Each for Levels I&II]

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Service Training: Xhibit, XTR & AriaTele Telemetry Systems. Operations, Configuration and PMs - Levels 1 & 2	999-1887-54	2	3,600.00	0.00	0.00
2	Service Training for Xprezzon, Qube & Xhibit - Levels 1 & 2 operation, preventative maintenance & basic corrective maintenance	999-1887-30	2	6,000.00	0.00	0.00
BIOMED Training [2 Credits Each for Levels I&II] Total						\$0.00

BIOMED Training [2 Credits Each for Levels I&II] Proposal Notes

NOTE: The discount offered herein requires that the biomedical engineers be employed as staff members by the member facility. Tuition credits are valid for 24 months after equipment installation. Travel, lodging and per diem are the responsibility of the hospital. Training will be at a mutually agreeable time and place. It is recommended that the hospital make technical training arrangements as soon as possible as seats for Snoqualmie training, and selected U.S. cities, are on a first come, first served basis. For registration, please contact Spacelabs University at (800) 287-7108 Ext. 5439.

ICS Bundled Bed Licenses [16 QTY]

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	1 Bed Clinical Access Bundle License	910-3999-01	16	600.00	318.00	5,088.00
2	1 Bed Interface Bundle License	910-3998-01	16	400.00	212.00	3,392.00
3	Project Management: Manage all aspects of the equipment, technology, clinical workflow, and go-live activities from the initial project kickoff to project closure utilizing the 5 stages of the Project Management Process.	999-1510-13	1	3,500.00	3,500.00	3,500.00
4	SL Network Impact Analysis. Determine and evaluate the impact of SL on the local network. Remediation, Testing and Go Live Support.	999-1510-01	1	5,000.00	5,000.00	5,000.00
5	Enhanced Software Support for new ICS 5.0 installations with bundles. Price is per year.	999-1898-02	1	279.78	0.00	0.00
6	72 hr Smart Disclosure License, ICS 5.0	910-3810-00	1	0.00	0.00	0.00
7	ICS 5.0 Documentation CD	084-1530-00	1	0.00	0.00	0.00
8	ICS Clinical Access, Client Installation Software CD (v5.5.0)	063-1829-18	1	0.00	\$0.00	0.00
9	ICS Software CD (v5.5.0)	063-1830-17	1	0.00	\$0.00	0.00
10	ICS Clinical Access Help, Installation CD (v5.5.0)	063-1833-12	1	0.00	\$0.00	0.00
ICS Bundled Bed Licenses [16 QTY] Total						\$16,980.00

ICS Clinical Access, ADT, and Vital Signs Interface implementation. For facilities with no more than 25 monitored beds.

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	ICS Clinical Access, ADT, and Vital Signs Interface implementation. For facilities with no more than 25 monitored beds.	999-2034-00	1	6,700.00	5,025.00	5,025.00
ICS Clinical Access, ADT, and Vital Signs Interface implementation. For facilities with no more than 25 monitored beds. Total						\$5,025.00

SafeNSound STANDARD Year 1 of 5 Year Contract for \$6,000 per Year [16 Devices]

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	SafeNSound Standard 1 Year Contract (Includes up to 100 Devices)	910-0282-00	5	5,000.00	5,000.00	25,000.00
2	Xprezznet Bed License, SafeNSound, waveforms off	910-0270-01	16	0.00	0.00	0.00
3	XprezzNet	96190	1	0.00	0.00	0.00
4	Xprezznet Implementation with SafeNSound Standard	999-2899-01	1	5,000.00	0.00	0.00
5	SafeNSound Software Support	999-1898-13	5	1,000.00	1,000.00	5,000.00
SafeNSound STANDARD Year 1 of 5 Year Contract for \$6,000 per Year [16 Devices]						\$30,000.00
Total						

Enhanced Software Support Plan Years 2-5

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Enhanced Software Support Plan (ICS/XprezzNet/Xhibit). Unit price is per year.	999-1898-00	4	1,620.00	1,215.00	4,860.00
Enhanced Software Support Plan Years 2-5 Total						\$4,860.00

Premier Tier Equipment Trade-In Discount

Line	Description	Item Number	Qty	Unit List Price	Unit Net Price	Ext. Net Price
1	Trade in discount, monitoring items. REQUIRES the completion and return of the Trade-in Equipment Form on page 24 with your purchase order.	7000-0001-999	1	0.00	-18,262.85	-18,262.85
Premier Tier Equipment Trade-In Discount Total						-\$18,262.85

TRADE-IN EQUIPMENT FORM**MUST BE COMPLETED AND RETURNED WITH YOUR PURCHASE ORDER**

In order to ensure that you receive full credit for your trade-in equipment, please complete this form and send it in with your Purchase Order. If you are trading in Spacelabs Healthcare equipment, please note the serial number that appears on the unit.

Equipment Manufacturer	Model Number or Model Type	Serial Number (SpaceLabs Equipment)	Qty	Equipment Age

Customer Signature

Date

Purchase Order Number

Please make sure to return all trade-in equipment to:
Spacelabs Healthcare
Attn: Robert Mcphetridge / Arnaldo Santos
35301 SE Center St
Snoqualmie, WA 98065

****PLEASE NOTE:** Trade-in equipment must be returned to Spacelabs Healthcare within 60 days of shipment of the new equipment. If the equipment is not returned, the amount of the trade-in discount will be invoiced to the customer. Spacelabs Healthcare will pay return freight charges for the trade-in equipment specified herein, using our preferred carrier(s). If a problem should occur in meeting this requirement, please contact your Sales Executive for assistance.

eLearning Courses

We are pleased to offer you access to Spacelabs' interactive eLearning courses, as well as five years of updates to eLearning course content. ELearning courses can be accessed by your personnel at <http://www.spacelabselearning.com> after individual login credentials are provided. If you choose to incorporate the eLearning courses directly into your learning management system, we will provide you with access to Dropbox SCORM files containing the eLearning material (the material can be provided on a USB if you do not have Dropbox access).

Except as modified below, the eLearning courses are provided to you subject to Spacelabs' Terms of Sale, (available on the About Us/Terms/Policies page of our website at <http://www.spacelabshealthcare.com>) or, if you have a separate applicable agreement in place with Spacelabs (such as a GPO agreement or standalone contract), subject to such contract.

The information in the eLearning courses is copyrighted by Spacelabs Healthcare. You are granted a non-exclusive, non-transferable, non-sublicensable license for use of the courses by your personnel. You agree that you will not alter, modify, create derivative works, or publicly display outside of your organization any content from the eLearning courses.

The eLearning courses are intended to supplement, and not replace, the information provided in a product's operators manual and a clinician's use of good clinical judgment. The information in each eLearning course SCORM file is current as of the date Dropbox shows the file was modified (or, if we provide the files via USB, when the files are provided to you). Spacelabs eLearning SCORM course files require Adobe Flash Player 11.7 or higher.

The eLearning courses are provided on an AS-IS basis. We expressly disclaim all warranties beyond those stated in this letter, including, without limitation, warranties of fitness for a particular purpose. We make no guarantee that eLearning SCORM courses will work on your learning management system. However, if they do not, upon your request within 30 days of purchase and your destruction or return of the SCORM files, we will refund the license fees you have paid. Any customization or deployment support you request from Spacelabs relating to the eLearning courses will be provided on a time and materials basis, should Spacelabs agree to provide such support. Spacelabs Technical Support does not support the eLearning SCORM files.

INSTALLATION SERVICES

We've covered all of the bases.

Signing on the dotted line doesn't simply complete the sale, it initiates a partnership between Spacelabs and our customers. During an installation, we follow through on the commitments made during the sales process and show you what our **Customer First philosophy** means in action.

STANDARD INSTALLATION INCLUDES:

Unpacking and inventory of the received equipment; Assembling and testing the equipment prior to use; Customer will dispose of packing material.

Mounting the equipment on hospital-installed wall channels. Customer will install any necessary wall channels, cabinetry or casework for mounting equipment. Customer, or its contractor, will mount wall or ceiling hardware to structure. Customer will provide electrical requirements such as conduit, emergency or standard power, as required.

Designing local area network for the monitoring system; Terminating and verifying customer pulled cable; Providing unmanaged switches, Category 5 network cable, wall plates and Category 5 connectors on wall plates; Verifying the functionality of the installed network.

Designing telemetry antenna systems, as required for the coverage area purchased; Providing telemetry antennas, coaxial cable and other components required for a functional telemetry system according to the coverage area specified in the purchase agreement; Customer will install Spacelabs-provided cable per the specification of the antenna system design; Customer will provide emergency power (if needed) to antenna components. Under no circumstance can Spacelabs install in asbestos areas or other environments deemed hazardous. Customer will provide skilled labor in these areas.

Customer is responsible for pulling cable, performing modifications to existing structures, or electrical requirements. Customer is responsible for penetration and sealing of firewalls.

Installation is scheduled for normal working hours. Requests for overtime or after-hours installation work should be reviewed with the local Spacelabs Regional Service Manager and will be billed at the prevailing time and material rate.

TruLink is a trademark of Spacelabs Healthcare.



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www.spacelabshealthcare.com

SUPPORT PLAN PORTFOLIO

WARRANTY AND SUPPORT PLAN OPTIONS

Warranty Options

8 x 5 Warranty

On-site coverage during normal business hours.

Warranty description identical to the Depot Support Plan specification provided below.

Depot Warranty

Return to depot coverage.

Warranty description identical to the Depot Support Plan specification provided below.

Support Plan Options



24 x 7 Support Plan

On-site coverage 24 hours a day, 7 days a week, 365 days a year. Designed for customers who prefer that Spacelabs meets all of their service support needs 24 hours a day. All safety updates are included, our technical support and field service teams are available 24 hours a day, 7 days a week to ensure that your equipment is kept in peak operating condition. In the event that there is a problem that we can't fix immediately, priority access to our dedicated pool of loaner equipment is assured.

8 x 5 Support Plan

On-site coverage during normal business hours. Designed for customers who prefer that Spacelabs meets all of their service support needs within normal working hours. All safety updates are included, our technical support team is available 24 hours a day, 7 days a week and our field service teams are available 8 hours a day, 5 days a week to ensure your equipment is kept in top operating condition.

Depot Support Plan

Return to depot coverage. Designed for Spacelabs customers who have less urgent equipment servicing needs. All safety updates are included and our technical support team is available 24 hours a day, 7 days a week. If there is a problem that we can't fix remotely, arrangements will be made to get the device returned to the factory for immediate update or repair.

Parts Exchange Support Plan

Spare part coverage for trained biomed. Designed for Spacelabs customers whose biomed teams have completed our Spacelabs Certified Technical Training courses. Our technical support team is available 24 hours a day, 7 days a week to help diagnose problems and to then supply any parts required for your Spacelabs certified biomed staff to perform the repair.

Enhanced ICS Software Support Plan/Basic Software Support Plan

Software update coverage. These low cost agreements are designed for Spacelabs customers who simply wish to ensure that their equipment's software is updated to the most current level every year. The Enhanced plan is required for customers purchasing ICS G2. For 'Mission Critical' users the Enhanced Plan also provides 24 hours a day, 7 days a week access to our team of IT Product Specialists and an option to include remote Preventive Maintenance checks for a small additional charge of 0.5%.

Custom Support Plan

An à la carte approach allowing customers select coverage to suit specific needs. We appreciate that on occasion, a hospital may have some very individual and unique support requirements. For this reason, we've included a 'Custom' column in the specification matrix on the back of this sheet. Place a check mark by each of the services you require and we'll be delighted to provide you with a quotation tailor-made for you.



Support Plan Portfolio

	WARRANTY TYPE		SUPPORT PLAN TYPE								
	8 X 5 Warranty	Depot Warranty	24 X 7 Support Plan	8 X 5 Support Plan	8 X 5 Support Plan (Cardiology Products)	Depot Support Plan	Parts Exchange Support Plan	Enhanced ICS Software Support Plan	Basic Software Support Plan (Patient Monitoring Products)	Basic Software Support Plan (Cardiology Products)	Custom Support Plan
US TECHNICAL SUPPORT											
8x5 Telephone Support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24x7 Telephone Support (Includes weekends & holidays)	✓	✓	✓	✓		✓	✓	✓	✓		
8x5 Access to Product Specialists	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24x7 Access to IT Product Specialists (Includes weekends & holidays)								✓			
Remote Diagnostics Support (Availability subject to equipment specification)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
PREVENTATIVE MAINTENANCE (PM) - Full OEM specification											
25% Discount for On-site PM Coverage (Discount from normal travel & labor charges)	✓		✓	✓	✓						
10% Discount for PM Parts used by FSE (Discount provided in addition to any discounts currently in place)	✓		✓	✓	✓						
Remote ICS Preventative Maintenance (Two system performance evaluations per year)								OPT			
CORRECTIVE MAINTENANCE (CM) - Full OEM specification											
08:30AM - 05:00PM On-site CM Coverage (Customer local time, FSE travel & labor included)	✓		✓	✓	✓						
24 X 7 On-site CM Coverage (Includes weekends & holidays, FSE travel & labor included)			✓								
Return to Depot CM Coverage (Labor & return shipping included)	✓	✓	✓	✓	✓	✓					
CM Repair Parts Coverage (Excludes supplies & accessories)	✓	✓	✓	✓	✓	✓	✓				
Priority Loan Equipment (No charge, subject to availability)			✓								
SOFTWARE SUPPORT											
Safety Updates (Includes FSE travel & labor)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Annual Performance Enhancing Updates (Includes FSE travel & labor)								✓	✓	✓	
Spacelabs ICS Software Upgrades (Includes upgrade to Intesys Clinical Suite (ICS) 5)								✓			
Discount on Post Implementation Interface Support (Includes any FSE travel & labor required)								25%	25%	25%	
ANNUAL PRICE											
Calculated as a percentage of the selling price of all products covered (Subject to maximum discount of 25% from list price)			9%	6%	12%	45%	3%	1.5%	1%	6%	QUOTE

A detailed description of the service offerings and applicable terms shall be included in the Spacelabs Customer Quotation form.



**EXHIBIT A-2
PARTICIPATING MEMBER DESIGNATION FORM**

SELLER: Spacelabs Healthcare, LLC
CONTRACT NUMBER: PP-MM-623
CONTRACT DATES: 6/1/2018 - 5/31/2021
PRODUCT CATEGORY: Physiological Monitoring Systems

1. Tier. The undersigned Participating Member hereby designates the following desired tier under the above-referenced Premier Healthcare Alliance, L.P. Group Purchasing Agreement:

a. Select one Tier by initialing below

VOLUME TIERS	TOTAL PRODUCT PURCHASES (COMMITMENT % PER CALENDAR YEAR)
TIER 1	No commitment required; PMDF not required
TIER 2	75% Commitment
TIER 3	85% Commitment
TIER 4	85% Commitment for a conversion Participating Member who is converting a minimum of 80% of their units from a competitor's equipment to Seller Products

b. Seller shall not reduce a Participating Member's tier level without first (i) notifying the Participating Member and Premier in writing that the Participating Member's purchase volume is below the tier level selected by the Participating Member (the "Tier Reduction Notice") and (ii) providing the Participating Member sixty (60) calendar days from the date of notice to remedy the purchasing volume issues described in the Tier Reduction Notice. If the Participating Member does not remedy the issues described in the Tier Reduction Notice within sixty (60) days, Seller may move the Participating Member to the appropriate tier based on the Participating Member's Product purchases. Any tier adjustment pursuant to this paragraph that results in a less favorable tier for the Participating Member will apply for Products purchased after the effective date of the tier reduction.

2. Aggregation Pricing Option. By initialing where indicated below, the undersigned Participating Member or Participating Member group purchasing organization ("GPO") hereby elects to invoke the Aggregation Pricing Option whereby such Participating Member which operates multi-facility systems and has the ability to coordinate the purchasing decisions of such facilities, or such entity that has an established network of facilities for purposes of group purchasing, shall be entitled to aggregate the purchasing volume within their respective systems and networks in order to meet the tier designated in Item 1 above. In order to invoke this election, the undersigned must be a Participating Member that is able to coordinate the purchasing decisions of the facilities it wishes to aggregate or a GPO with members that are Participating Members. Attached hereto as Schedule 1 is a list of all such facilities. Seller shall be responsible for checking the Membership Roster for updates as specified in Section 3.0 of the Agreement. The undersigned Participating Member or GPO hereby elects to invoke the Aggregation Pricing Option: **Participating Member's (or GPO's) Initials:** _____.

Participating Member's Primary Distributor: _____ Secondary Distributor: _____

The undersigned Participating Member hereby acknowledges and confirms the above designations.

Participating Member/GPO
 Print Name of Person Signing _____
 Signature _____
 Title of Person Signing _____
 Phone Number _____
 E-mail Address _____
 Date Signed _____
 Entity Code _____
 Print Name of Participating Member/GPO _____
 Address _____
 City and State _____

Spacelabs Healthcare, LLC
 Print Name of Person Signing _____
 Signature _____
 Title of Person Signing _____
 Date Signed _____

Upon completion, please submit this form to both Seller and Premier.

Spacelabs Healthcare
Fax: 425-363-5399
Email: slcorporateaccounts@spacelabs.com

Premier Healthcare Alliance, L.P.–
Fax: 704.816.3509
Email: PremierPMDF@PremierInc.com

EXHIBIT A-2
PARTICIPATING MEMBER DESIGNATION FORM

SELLER: Spacelabs Healthcare, LLC
CONTRACT NUMBER: PP-MM-623
CONTRACT DATES: 6/1/2018 - 5/31/2021
PRODUCT CATEGORY: Physiological Monitoring Systems

SCHEDULE 1

LIST OF PARTICIPATING MEMBER'S (or GPO's) FACILITIES
(For Purposes of Implementing the Aggregation Pricing Option)

[TO BE COMPLETED BY THE PARTICIPATING MEMBER OR GPO]

Participating Member/GPO name: _____

Premier Entity Code	Participating Facility Name	City	ST	Phone Number	Contact Name



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.

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



91496-A

91496-B

91496-C

91496-I

91496-L

Summary

The Ultraview SL™ Command Module is a multiparameter module used with Spacelabs Healthcare patient monitors. Five different parameter configurations provide vital sign monitoring for any range of acuity. Configurable settings assure customized care for neonatal, pediatric, and adult patients.

Features

Module Configurations

Note:

Module use is restricted to one patient at a time.

91496-A	<p>Noninvasive Parameter Set</p> <p>Provides multi-lead ECG, respiration, noninvasive blood pressure, pulse oximetry, and two temperature channels</p>
91496-B	<p>Invasive Parameter Set</p> <p>Provides multi-lead ECG, respiration, noninvasive blood pressure, pulse oximetry, and two temperature channels, plus two invasive pressure channels</p>
91496-C	<p>Invasive Parameter Set with Cardiac Output</p> <p>Provides multi-lead ECG, respiration, noninvasive blood pressure, pulse oximetry, and two temperature channels, plus four invasive pressure channels and thermodilution cardiac output</p>
91496-I	<p>Noninvasive Parameter Set</p> <p>Provides noninvasive blood pressure, pulse oximetry, and two temperature channels</p>
91496-L	<p>Invasive Parameter Set</p> <p>Provides four invasive blood pressure channels, pulse oximetry, and two temperature channels</p>

Note:

91496-L is intended for use in conjunction with another module to provide additional parameter monitoring, such as dual SpO₂ (SpO₂D).



Alarm Limit Review	Provides a snapshot view of bedside alarm limits for all active parameters <i>Note:</i> <i>This feature only functions with specific monitors.</i>
Data Shuttle®	Provides data transfer features for up to 24 hours of data in the monitor's database, including continuous and episodic events, and trend information for all parameters monitored, including modules and Flexport® system interfaces (requires monitor option Q); module will retain data for up to 10 minutes. 91496-I and 91496-L configuration do not support Data Shuttle.
Module Configuration Manager	This feature provides the ability to define all the module's user-configurable settings. Once a module has been configured, these settings control its operation whenever the module is first powered ON.
Module Parameter Count	When computing parameter capacity for monitors, each configuration counts as follows:
91496-A	Minimum of 5, maximum of 7
91496-B	Minimum of 7, maximum of 9
91496-C	Minimum of 10, maximum of 12
91496-I	3 parameters
91496-L	6 parameters
Dimensions	
Height	11.3 cm (4.45 in)
Width	5.66 cm (2.23 in)
Depth	18 cm (7.1 in)
Weight	0.8 kg (1.75 lb)

Options

D	Diagnostic 12-lead reports with measurements and interpretation*
E	Diagnostic 12-lead reports without measurements or interpretation*
F	Basic arrhythmia, provides alarms for high and low heart rate, asystole, and ventricular fibrillation*
G	Standard Multiview™ I Arrhythmia (MVI); provides alarms for high and low heart rate, asystole, ventricular fibrillation, ventricular runs, ventricular couplets, ventricular beats per minute, atrial fibrillation, pauses, and supraventricular tachycardia*
H	Advanced Multiview II Arrhythmia (MVII); enables users to review the dominant morphology, as well as episodes or classes of ventricular fibrillation, ventricular runs, ventricular couplets, isolated ventricular beats, supraventricular tachycardia, pauses, atrial fibrillation, ventricular and atrio-ventricular pacing; provides alarms for high and low heart rate, asystole, ventricular fibrillation, ventricular runs, ventricular couplets, ventricular beats per minute, atrial fibrillation, pauses, and supraventricular tachycardia*
M	Masimo SET SpO ₂ technology



N	Nellcor OxiMax SpO ₂ technology
R	Respiration*
S	ST segment analysis; review, and trends*
U	Spacelabs Healthcare SpO ₂ technology
V	Varitrend® 4; define, trend, and document critical physiological events containing data from up to four parameters, including heart rate, SpO ₂ (pre- and post-ductal sites), respiration rate, EtCO ₂ , TcpCO ₂ , and TcpO ₂ *

* Not available with 91496-I and 91496-L configuration.

Product Specifications

Refer to the specific parameter section for the appropriate specifications.

Electrocardiogram (ECG)

Input	10-lead, 5-lead, or 3-lead ECG cable (cables use 1 kΩ ±10% resistors in series with each electrode)
Maximum Input	±5 mV (±10%)
DC Offset	Up to ±300 mV with no more than 2% signal amplitude degradation
Overdrive Recovery Time	<2 seconds with defibrillator discharge of 360 joules or voltage step-up to ±300 mV
Noise	<30 μV peak-to-peak referred to input (rti)
CMRR	>110 dB at line frequency (monitor mode) with patient cable and maximum 50 kΩ imbalance (referenced to chassis [earth] ground)
Pacer Rejection	Single and double pulse pacers with less than 4-msec tails
Pacer Detection	Detects pacer pulses of ±2 mV to ±200 mV with pulse widths of 0.25 to 2 msec and rise times 10% of width not to exceed 100 μsec
Signal Bandwidth (-3 dB)	0.05 to 150 Hz ±10%
Display Bandwidth (-3 dB)	2 settings: 0.5 to 40 Hz ±10% in monitor mode, and 0.05 to 150 Hz ±25% in extended mode
Sample Rate	896 samples per second (sps)
QRS Detection	Performed on up to 2 leads simultaneously; detects QRS complexes with durations of 40 to 120 ms and amplitudes of 0.2 to 5 mV (adult/pediatric) or 0.15 to 5 mV (neonate)
Defibrillator Protection	Meets IEC 60601-2-27, AAMI EC-13
Resolution	2.5 μV per LSB, rti
Input Impedance	>10 MΩ minimum differential at 10 Hz
Gain Accuracy	±5%
Ventricular Beats Per Minute Counter	Displays counts up to 99 beats per minute



Heart Rate Range	15 to 300 bpm; heart rates >300 bpm are displayed as “+++”
Heart Rate Resolution	1 bpm
Heart Rate Alarm Limits	<ul style="list-style-type: none">• High — 5 to 300 bpm• Low — 0 to 200 bpm
Accuracy	±1% or 3 beats per minute (whichever is greater)
Numeric Update Rate	Every 3 seconds or immediately at the onset of an alarm
Test Signal	1 mV peak-to-valley (displayed via touch key)
Display Size	Adjustable from 0.5 to 10 cm/mV; direct selection of a 1 cm/mV size
Bedside Display	Up to 12 leads; number of leads depends on host monitor configuration <ul style="list-style-type: none">• Standard (1- or 2-lead display)• Split-view (6-lead display)• Full-view (12-lead display)
Waveform Sweep Speeds	50, 25, or 12.5 mm/sec
High Level Analog Output	
Connector (Front Panel)	0.174 in (4.42 mm) diameter, three conductor TT-phone plug
Dynamic Range	±5 mV (±10%) rti
Gain	ECG × 1,000 (±5%)
Output Impedance	400 Ω maximum
Defibrillator Sync Input	
Input Level	±1 V minimum upper HLO, ring connection
Input Impedance	2,000 Ω minimum
ST Segment Analysis	
Resolution	0.08 mm
Range	±9 mm (1 mV = 10 mm)
Leads	ST segment analysis continuously performed on up to 12 leads
Alarms	Single lead or multiple leads; individual leads can be deselected
Displays	12-lead waveforms and numerics
Snapshot Storage	Up to nine 12-lead ST segment waveform sets can be saved in memory; data may be acquired automatically at pre-selected intervals or in the event of an alarm
Trends	Up to 24 hours of trend data may be displayed in 1.5-, 3-, 6-, 12-, or 24-hour time bases



Diagnostic ECG Analysis

Instrument Type	12-lead interpretive electrocardiograph
Standard Leads	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
Input Channels	Simultaneous acquisition of all standard leads
Sample Rate	500 sps
Algorithm Features	Arm lead reversal detection, lead-off detection, artifact detection, baseline correction, line voltage rejection
Printer Speed	25 mm/sec
Sensitivity	10 mm/mV

Respiration

Input	10-lead, 5-lead, or 3-lead ECG cable (cables use 1 k Ω resistors (\pm 10%) in series with each electrode)
Measurement Technique	Impedance pneumography through ECG leads RA/LA (R/L), RL/LL (N/F), RL/LA (N/L), or RA/LL (R/F)
Patient Source Impedance	0 to 1,500 Ω
Excitation Frequency	62.5 kHz (\pm 2%)
Excitation Amplitude	120 μ Amp (\pm 20%) rms, 330 μ Amp (\pm 20%) peak-to-valley
Noise	<0.05 Ω peak-to-valley at 500 Ω patient source impedance
Signal Bandwidth	<ul style="list-style-type: none"> Adult/Pediatric — 0.12 to 3 Hz (\pm10%) Neonate — 0.15 to 3.5 Hz (\pm10%)
Recovery Time	<3 seconds after overload
Sample Rate	112 sps
Detection Sensitivity	2 settings: 0.1 Ω (shallow) and 0.25 Ω (normal) at 500 Ω input source impedance
HR Artifact Rejection	Selectable inspiration detector improves respiratory rate and alarm accuracy by ignoring most cardiovascular artifact
Respiration Rate Range	0 to 200 breaths per minute; respiration rates >200 breaths per minute are displayed as “+++”
Respiration Resolution	1 breath per minute
Respiration Rate Alarm	<ul style="list-style-type: none"> High — 1 to 200 breaths per minute Low — 0 to 195 breaths per minute Alarms automatically enabled in neonate patient type.
Apnea Alarm	Selectable between 5 and 40 seconds in 5-second increments; in neonate patient type, alarms automatically enable
Accuracy	\pm 5% or 1 breath per minute (whichever is greater)
Numeric Update Rate	Every 3 seconds or immediately at the onset of an apnea alarm
Display Size	Adjustable from 0.5 to 10.0 cm/ Ω



Waveform Sweep Speeds	25, 12.5, 6.25, or 1.56 mm/sec
High Level Analog Input/ Output	
Connector (Front Panel)	4.42 mm (0.174 in) diameter, three conductor TT-phone plug
Dynamic Range	±4 V minimum
Gain	0.6 V/Ω ±20%
Invasive Blood Pressure (IBP)	
Transducer Type	Strain-gauge, standardized to 5 μV/V/mmHg ±1%
Transducer Excitation Voltage	4 VDC ±1%
Dynamic Waveform	-50 to +500 mmHg (-6.7 to +66.7 kPa)
Signal Bandwidth	0 to 40 Hz
Sample Rate	112 sps
Measurement Units	mmHg or kPa
Measurement Range	-50 to +300 mmHg (-6.7 to +40 kPa); displays “+++” for pressures >+300 mmHg (+40 kPa) and “---” for pressures <-50 mmHg (-6.7 kPa)
Accuracy	±2 mmHg (0.27 kPa) or 2% of reading (whichever is greater)
Zero Drift	(exclusive of transducer) <0.1 mmHg/° C (<0.01 kPa/° C) after a 5-minute warm-up
Zero Adjust	±200 mmHg (±26.7 kPa)
Filter Frequency	Adjustable from 3 to 40 Hz
Labels	Arterial (ART), Arterial 2 (ART2), Arterial 3 (ART3), Central Venous (CVP), Intracranial (ICP), Left Atrial (LAP), Pulmonary Artery (PA), Right Atrial (RAP), Umbilical Artery (UA), Umbilical Venous (UV), and Generic Pressure (PRS)
Display Parameters	Systolic, diastolic, and mean pressures displayed for arterial, pulmonary artery, umbilical artery, umbilical venous, and generic pressure; mean pressures displayed for all others; cerebral perfusion pressure (CPP) displayed automatically with intracranial pressure monitoring (when ART pressure available)
IBP Alarms	<ul style="list-style-type: none"> • High and low alarms for all measured parameters (e.g., systolic, diastolic, mean, cerebral perfusion pressure) • Transducer disconnect and out-of-range alarms for all measured parameters • Catheter disconnect alarm for the following pressures: Arterial (ART, ART2, ART3), Pulmonary Artery (PA), Umbilical Artery (UA), Generic (PRS)
IBP Alarm Limits	<ul style="list-style-type: none"> • High — -45 to +300 mmHg (-6 to +40 kPa) • Low — -50 to +295 mmHg (-6.7 to +39.3 kPa)
Waveform Sweep Speeds	50, 25, 12.5, or 6.25 mm/sec
Numeric Update Rate	Every 3 seconds



High Level Analog Input/Output	
Connector (Front Panel)	4.42 mm (0.174 in) diameter, three conductor TT-phone plug
Dynamic Range	-0.5 to +3.5 V
Gain	ART, ART2, ART3, PRS, UV, UA 10 mV/mmHg (75 mV/kPa) ±5%; other pressure labels: 25 mV/mmHg (187.5 mV kPa) ±5%

Noninvasive Blood Pressure (NIBP)

Measurement Method	Oscillometry
Measurement Units	mmHg or kPa
Measurement Ranges	<ul style="list-style-type: none"> • Neonate/Pediatric 1 — 15 to 140 mmHg (2.0 to 18.7 kPa) • Pediatric 2/3 — 30 to 190 mmHg (4 to 25.4 kPa) • Pediatric 4/Adult— 30 to 260 mmHg (4 to 34.7 kPa)
Measurement Range	30 to 250 bpm (Pulse Rate)
Measurement Start/Stop	Automatic or user demand
Automatic Measurement Intervals	Adjustable intervals of: <ul style="list-style-type: none"> • 1, 2, 2.5, 3, 4, 5, 10, 15, 20, and 30 minutes • 1, 2, 4, 6, and 8 hours
Measurement Reading Time	Typically less than 45 seconds
Cuff Deflation Rate	Rapid Exhaust Mode <ul style="list-style-type: none"> • Neonate/Pediatric 1 — <5 seconds from 150 mmHg (20 kPa) to 5 mmHg (0.7 kPa) • Pediatric 2, Pediatric 3, Pediatric 4 and Adult — <10 seconds from 260 mmHg (34.7 kPa) to 15 mmHg (2 kPa)
Air Leakage	Maximum 1 mmHg/min (0.13 kPa/sec) at 260 mmHg (34.7 kPa) on 500-ml vessel
Autozero	Automatically zeroes prior to each reading
Artifact Rejection	Software discriminates between pressure signals and extraneous signals, such as patient movement.
Accuracy and Resolution	Satisfies ANSI/AAMI SP10: 2002; and EN 1060:1996
Accuracy of Pressure Measurement	Meets or exceeds ANSI/AAMI standard SP-10 [mean error ±4.5 mmHg (0.6 kPa), standard deviation ±7.3 mmHg (1 kPa)]
Display Parameters	Systolic, diastolic, and mean
NIBP Alarms	High and low alarms for all measured parameters



NIBP Alarm Limit Ranges

Neonate/Pediatric 1	<ul style="list-style-type: none"> High — 20 to 140 mmHg (2.6 to 18.7 kPa) Low — 15 to 135 mmHg (2 to 18 kPa)
Pediatric 2/3	<ul style="list-style-type: none"> High — 35 to 190 mmHg (4.7 to 25.4 kPa) Low — 30 to 185 mmHg (4 to 24.7 kPa)
Pediatric 4/Adult	<ul style="list-style-type: none"> High — 35 to 260 mmHg (4.7 to 34.7 kPa) Low — 30 to 255 mmHg (4 to 34 kPa)

Spacelabs Healthcare SpO₂ (Option U)

Measurement Method	Functional saturation (oxygen saturation of functional hemoglobins)
Measurement Range	
O ₂ Saturation	30% to 100%
Pulse Rate	30 to 249 bpm
Measurement Accuracy (A _{rms})	Established accuracy is the root-mean-square of the error between measured values and reference values obtained from a laboratory hemoximeter during adult human blood studies. Assuming a normal distribution, A _{rms} encompasses 68% of the data population.
Adult	<ul style="list-style-type: none"> 70% to 100% ±3% 0% to 69% unspecified
Neonate	<ul style="list-style-type: none"> 70% to 100% ±3% 0% to 69% unspecified
Saturation Resolution	1%
Pulse Rate Resolution	1 bpm
Averaging Time	Selectable to 4, 8, or 16 seconds
Saturation Alarm Limits	<ul style="list-style-type: none"> High — 51% to 100% Low — 50% to 99% Desat — 50% to 98%
Numeric Update	Every 3 seconds
TruLink® Sensors	Operate at or near 660 nm and 940 nm; total radiated optical power from 500 to 1,000 nm does not exceed 60 mW



Masimo SET SpO₂ (Option M)

Measurement Method	Functional saturation (oxygen saturation of functional hemoglobins)
Measurement Range	
O ₂ Saturation	1% to 100%
Pulse Rate	25 to 240 bpm
Masimo SET SpO ₂ Measurement Accuracy (A _{rms})	These sensors have been clinically validated by Masimo.

Masimo Sensor Models	Weight Range	Saturation Accuracy 70 to 100%	
		No Motion	Low Perfusion [†]
LNCS Reusable Sensors			
LNCS DC-I	>30 kg	±2%	±2%
LNCS DC-IP	10 to 50 kg	±2%	±2%
LNCS TC-I	>30 kg	±3.5%	±3.5%
LNCS TF-I	>30 kg	±2%	±2%
LNCS Adhesive Sensors			
LNCS Adtx	>30 kg	±2%	±2%
LNCS Pdtx	10 to 50 kg	±2%	±2%
LNCS Inf-L	3 to 20 kg	±2%	±2%
LNCS Neo-L	<3 kg	±3%	±3%
	>40 kg	±2%	±2%
LNCS NeoPt-L	<1 kg	±3%	±3%
LNOP Reusable Sensors			
LNOP DC-I*	>30 kg	±2%	±2%
LNOP DC-IP*	10 to 50 kg	±2%	±2%
LNOP Y-I*	>1 kg	±2%	N/A
LNOP TC-I**	>30 kg	±3.5%	±3.5%
LNOP DC-195*	>30 kg	±2%	±2%
LNOP TF-I**	>30 kg	±2%	±2%
LNOP Adhesive Sensors			
LNOP Adt*	>30 kg	±2%	±2%
LNOP Pdt*	10 to 50 kg	±2%	±2%
LNOP Neo*	<10 kg	±3%	±3%
LNOP NeoPt*	<1 kg	±3%	±3%
LNOP Neo-L*	<3 kg	±3%	±3%
	>40 kg	±2%	±2%
LNOP NeoPt-L*	<1 kg	±3%	±3%



Masimo Sensor Models	Weight Range	Saturation Accuracy 70 to 100%	
		No Motion	Low Perfusion [†]
LNOP Inf-L*	3 to 20 kg	±2%	±2%
LNOPv In*	3 to 20 kg	±2%	±2%
LNOPv Ne*	<3 kg	±3%	±3%
LNOPv Ad*	>30 kg	±2%	±2%
LNOP Hi-Fi Neo/Adult	<3 kg	±3%	±3%
	>30 kg	±2%	±2%
LNOP Hi-Fi Inf/Ped	3 to 10 kg	±3%	±3%
	10 to 30 kg	±2%	±2%
LNOP Blue**	2.5 to 30 kg	±3% ^{††}	±3%
		±4% ^{††}	±3%
		±3.3% ^{††}	±3%
LNOP Amtx	>30 kg	±2%	±2%
LNOP Pmtx	10 to 50 kg	±2%	±2%
RD SET Sensors			
RD SET Adt*	>30 kg	±2%	±2%
RD SET Pdt*	10-50 kg	±2%	±2%
RD SET Inf*	3-20 kg	±2%	±2%
RD SET Neo/Adult*	<3 kg	±3%	±3%
	>40 kg	±2%	±2%
RD SET NeoPt*	<1 kg	±3%	±3%
RD SET DCI-P	>30 kg	±2%	±2%

* The accuracy specification under motion conditions is ±3%. Motion is defined as continuous rubbing and tapping motions at 2 to 4 Hz, at an amplitude of 1 to 2 cm, and continuous random frequency motion between 1 to 5 Hz, at an amplitude of 2 to 3 cm.

** These sensors were not validated under motion conditions.

† Pulse amplitude >0.2%; % transmission >5% (LNOP Y-I sensor was not validated for low perfusion).

†† Saturation accuracy under no motion for neonatal, infant, or pediatric patients with congenital cyanotic cardiac lesions ±3% for 80 to 100%, ±4% for 60 to 80%, and ±3.3% for 70 to 100%.

Pulse Rate Accuracy	<ul style="list-style-type: none"> No Motion — ±3 bpm Motion — ±5 bpm Low Perfusion — ±3 bpm
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Saturation Resolution	1%
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Pulse Rate Resolution	1 bpm
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Saturation Alarm Limits	<ul style="list-style-type: none"> High — 51% to 100% Low — 50% to 99% Desat — 50% to 98%
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Numeric Update	Every 3 seconds
Masimo Sensors	Operate at or near 660 nm and 905 nm; total radiated power from 500 nm to 1000 nm does not exceed 0.79 mW
No Implied License	Possession or purchase of this device does not convey any express or implied license to use the device with unauthorized sensors or cables that would alone, or in combination with this device, fall within the scope of the Masimo patent rights.

Nellcor OxiMax SpO₂ (Option N)

Measurement Method	Functional saturation (oxygen saturation of functional hemoglobins)
Measurement Range	
O ₂ Saturation	1% to 100%
Pulse Rate	25 to 300 bpm
Nellcor OxiMax Measurement Accuracy (A _{rms})	These sensors have been clinically validated by Nellcor.

Nellcor Sensor Models	Saturation Accuracy 70% to 100%
OxiMax Sensors, Single Patient Use	
MAX-A* MAX-AL*	±2%
MAX-N* † (Adult)	±2%
MAX-N* † (Neonate)	±3%
MAX-P*	±2%
MAX-I*	±2%
MAX-FAST	±2%
MAX-R**	±3.5%
OxiCliq Sensors, Single Patient Use	
OxiCliq A	±2.5%
OxiCliq P	±2.5%
OxiCliq N † (Adult)	±2.5%
OxiCliq N † (Neonate)	±3.5%
OxiCliq I	±2.5%
Reusable Sensors	
D-YS (Infant to Adult)	±3%
D-YS (Neonate)	±4%
D-YS and D-YSE	±3.5%
DS-100A	±3%
OXI-AN (Adult)	±3%
OXI-A/N (Neonate)	±4%
OXI-P/I	±3%



- * The accuracy specification under motion conditions is $\pm 3\%$.
- ** The accuracy specification has been determined between saturations of 80% and 100%.
- † The MAX-N and the OxiCliq N were tested on patients >40 kg.

Neonatal Accuracy	When sensors are used on neonatal subjects as recommended, the specified accuracy range is increased by ± 1 digit as compared to adult usage, to account for the theoretical effect on oximeter measurements of fetal hemoglobin in neonatal blood. For example, MAX-N accuracy on neonates is ± 3 digits, rather than ± 2 digits.
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Saturation Resolution	1%
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Pulse Rate Resolution	1 bpm
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Saturation Alarm Limits	<ul style="list-style-type: none"> • High — 51% to 100% • Low — 50% to 99% • SatSeconds — OFF, 10, 25, 50, 100
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Numeric Update	Every 3 seconds
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Nellcor Sensors	Operate at or near 660 nm and 880 nm; total radiated optical power from 500 to 1,000 nm does not exceed 15 mW
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Temperature

Probe Type	YSI 400 or YSI 700; automatically identifies series number and processes both
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Sample Rate	14 sps
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Measurement Range	0° to 50° C; displays "--." for temperatures <0° C and "++." for temperatures >50° C
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Display Parameters	TEMP (single probe attached); T1, T2, and delta temperature (DT) (two probes attached)
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Accuracy	$\pm 0.2^\circ$ C (0° to 25° C); $\pm 0.1^\circ$ C (25° to 41° C); $\pm 0.2^\circ$ C (41° to 50° C)
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Resolution	0.1° C
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Numeric Update Rate	Every 3 seconds
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Alarms	High and low for all displayed temperature values
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Alarm Limits	<ul style="list-style-type: none"> • High — 0.1° to 50° C • Low — 0° to 49.9° C
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Cardiac Output (CO)

Calculation Method	Thermodilution technique
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Sample Rate	112 sps
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Measurement Units	CO in L/min, Temperature in degrees Celsius
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CO Measurement Range and Accuracy	0.1 to 18 L/min $\pm 10\%$
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Resolution of CO Numeric	0.1 L/min
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Temperature Measurement	Monitored via thermistor, injectate 0° to 28° C, blood 17.2° to 43° C
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Temperature Measurement Accuracy	±0.2° C
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Calculated Values

Body Surface Area (BSA), Cardiac Index (CI), Stroke Volume (SV), Stroke Volume Index (SVI), Systemic Vascular Resistance (SVR), Pulmonary Vascular Resistance (PVR), Left Ventricular Stroke Work (LVSW), Right Ventricular Stroke Work (RVSW), Systemic Vascular Resistance Index (SVRI), Pulmonary Vascular Resistance Index (PVRI), Left Ventricular Stroke Work Index (LVSWI), and Right Ventricular Stroke Work Index (RVSWI)

Entered Values and Ranges

Patient Height	20 to 215 cm (8 to 84 in)
Patient Weight	1 to 250 kg (2 to 551 lb)
Heart Rate	0 to 300 bpm
Mean Arterial Pressure	0 to 300 mmHg (0 to 40 kPa)
Central Venous Pressure	0 to 99 mmHg (0 to 13.2 kPa)
Mean Pulmonary Artery Pressure	0 to 99 mmHg (0 to 13.2 kPa)
Pulmonary Wedge Pressure	0 to 99 mmHg (0 to 13.2 kPa)

High Level Outputs

Quantity	2 Ports
User Configurable	<ul style="list-style-type: none"> • ECG1 and ECG2 • ECG1 and RESP • ECG1 and PRES1 • PRES1 and PRES2

Note:
High level outputs on the 91496-L module only support PRES1 and PRES2.

Volatile Memory

Data is preserved for 10 minutes. Module ceases data collection when power is removed.

Classification

MDD	Class IIb
EN 60601-1	Type CF defibrillator proof Rated for continuous operation

Environmental Requirements

Operating	
Temperature	0° to 50° C (32° to 122° F)
Humidity	95% (noncondensing) up to 30° C (86° F), 10% to 75% up to 40° C (104° F), 10% to 45% up to 50° C (122° F)

Altitude	0 to 3,000 meters (0 to 9,843 feet)
Transport and Storage	
Temperature	-40° to 75° C (-40° to 167° F)
Humidity	95% (noncondensing) up to 50° C (122° F), 10% to 50% up to 75° C (167° F)
Altitude	0 to 12,192 meters (0 to 40,000 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 SpO₂ sensors.

Documentation

CD-ROM Part Numbers	<i>Bedside, Central, and Telemetry Operations Documents CD-ROM</i> (P/N 084-1101-xx) <i>Spacelabs Healthcare Service Documents CD-ROM</i> (P/N 084-0700-xx)
Supplies and Accessories	<i>Spacelabs Healthcare Supplies and Accessories Catalog</i> (sa.spacelabshealthcare.com)

Regulatory Approvals



CSA certified. Meets CSA C22.2 No. 60601-1 and ANSI/AAMI ES60601-1. IEC 60601-1: basic safety; IEC 60601-2-25: ECG; IEC 60601-2-27: ECG; ISO 80601-2-30: NIBP; IEC 60601-2-34: IBP; IEC 60601-2-49: multiparameter monitors; ISO 80601-2-56: clinical thermometers; ISO 80601-2-61: SpO₂.



CE marked in accordance with the Medical Device Directive 93/42/EEC. EN 1060-3: NIBP; IEC 60601-1: electrical safety; EN 60601-1-2: EMC; IEC 60601-2-25: ECG; IEC 60601-2-27: ECG; ISO 80601-2-30: NIBP; IEC 60601-2-34: IBP; IEC 60601-2-49: multifunction monitors; ISO 80601-2-56: clinical thermometers; ISO 80601-2-61: SpO₂.



Does not contain hazardous substances — Europe



Does not contain hazardous substances — China

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Capnography Pod



Pod attached to the qube monitor

Summary

The Capnography Pod is a sidestream gas analyzer designed to measure the concentration of carbon dioxide in a gas mixture and to aid in determining the patient's ventilatory, circulatory, and metabolic status. Its small, compact form makes it ideal for use with the qube® monitor (see photo) and qube® mini monitor.

The Capnography Pod includes a small, lightweight sensor that continuously measures the end-tidal and minimum carbon dioxide (CO₂) levels in the patient's airway. The sensor is connected to the airway by a disposable or reusable Nomoline sample line. A constant-flow vacuum system maintains the flow rate through the sample line.

Features

Measurement of Respiration Rate and Carbon Dioxide	Continuously measures end-tidal CO ₂ , minimum CO ₂ , and respiration rate
Suspend Mode	Disables gas sampling while maintaining power to the sensor to minimize warm-up time between cases
Pressure Compensation	Automatically compensates for ambient barometric pressure assuring measurement accuracy

Product Specifications

Physical Dimensions

Height	9.7 cm (3.8 in)
Width	7.5 cm (3 in)
Depth	5.8 cm (2.3 in)
Weight	0.3 kg (0.6 lb)



Carbon Dioxide	Sidestream — FiO ₂ and ETCO ₂ are displayed after one breath and have a continuously updated breath average. ET will typically decrease below nominal value (ET _{nom}) when respiration rate (RR) exceeds the RR threshold (RR _{th}) according to the following formula: CO ₂ : $ET = ET_{nom} \times 125^{RR - RR_{th}}$ for $RR > RR_{th}$ Measured at I/E ratio 1:1 using breath simulator according to EN ISO 80601-2-55 fig. 201.101
Range	0 to 120 mmHg (0 to 16 kPa), 15%
Resolution	1 mmHg (0.1 kPa), 0.1%
Measurement Rise Time	<250 msec typically
Accuracy	±(0.2 vol% + 2% reading)
Values	Inspired/expired
Gas Cross Effects	<0.2% (O ₂ , N ₂ O, anesthetic agents)
Respiratory Rate	Measurement based on CO ₂ waveform; breath detection is based on a 1% change in CO ₂ level Measured at I/E ratio 1:1 using breath simulator according to EN ISO 80601-2-55 fig. 201.101
Range	1 to 150 BPM
Accuracy	±1 BPM
Apnea	
Range	20 to 45 seconds
Resolution	5 seconds
Accuracy	±1 second
Warm Up	<10 seconds for concentration reporting and full accuracy specification
Sample Line Flow Rates	50 ml/min ±10 ml/min
Total System Response Time	Sidestream: <3 seconds
CO ₂ Waveform Scales	Selectable at 0 to 120 mmHg, 0 to 100 mmHg, 0 to 80 mmHg, 0 to 60 mmHg, 0 to 40 mmHg, 0 to 15 kPa, 0 to 12.5 kPa, 0 to 10 kPa, 0 to 7.5 kPa, 0 to 5 kPa, 0 to 15%, 0 to 12.5%, 0 to 10%, 0 to 7.5%, 0 to 5%
Waveform Speeds	Selectable at 25, 12.5, 6.25, 3.12, or 1.56 mm/second
Measurement Units	%, mmHg, kPa for CO ₂ ; BPM for respiration rate
Alarms	User-selectable; respiration rate (high and low limits), EtCO ₂ (high and low limits), MINCO ₂ (high limits), and apnea
Gas Calibration	Calibration from external gas mixture
Occlusion	Automatically detects and attempts to clear sample line occlusions
Suspend Sampling	In suspend mode, sensors continue to operate but pumps stop and waveform and numeric zones are cleared, allowing sensors to remain warmed up.



Monitor Compatibility	qube 91390 qube mini 91389
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Classification

MDD	Class IIb
EN 60601-1	Class I – Type BF defibrillator proof Device is not affected by patient defibrillation
CISPR11	Group 1, Class B Suitable for use in domestic establishments connected to a low-voltage supply network

Electrical Specifications

Power supplied by monitor.

Environmental Requirements

Operating	
Temperature	0° to 50° C (32° to 122° F)
Ambient Humidity	95% (non-condensing)
Atmospheric Pressure	394 to 900 mmHg (52.5 to 120 kPa)
Storage	
Temperature	-40° to 70° C (-40° to 158° F)
Ambient Humidity	95% (non-condensing)
Altitude	0 to 12,192 meters (0 to 40,000 feet)

Accessories

Refer to the *Spacelabs Healthcare Supplies and Accessories Catalog* for availability of the specially designed Nomoline sample lines and accessories.

Nomoline Sampling Adapter (single patient use)	P/N 015-0683-00
Nomoline Sampling Adapter (reusable)	P/N 103-0234-00
Nomoline Line Extension (single patient use)	P/N 166-7085-00

Documentation

CD-ROM Part Numbers

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)

Supplies and Accessories

Spacelabs Healthcare Supplies and Accessories Catalog
(sa.spacelabshealthcare.com)

Regulatory Approvals



CSA certified. Meets IEC 60601-1, CAN/CSA C22.2 No. 60601-1, and ANSI/AAMI ES60601-1 for electrical safety, and ISO 80601-2-55 for respiratory gas monitors.



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



Does not contain hazardous substances - Europe



Does not contain hazardous substances - China

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






The Spacelabs Healthcare 96281 AriaTele™ Telemetry Transmitter provides a range of choices for ambulatory patient monitoring, from basic ECG to multiparameter with a liquid crystal display (LCD). The color display allows a clinician to assess ECG and/or SpO₂ signal quality while at the patient's side.

The design is sleek and smooth for patient comfort, as well as water-resistant and durable.

Note:

Not all products are available in all locales. Check with your local Spacelabs Healthcare representative.

Features

	96281-A ECG without Display	96281-B ECG with Display	96281-C ECG and SpO ₂ with Display
			
Leads transmitted	II and V (narrowband) / 7 from 4 vectors (wideband)		7 from 4 vectors
Leads shown on display	N/A	I, II, III, and V	
Electrode configuration	individually replaceable DIN standard safety lead wires		
Lead fault indicator	yellow LED flashes for lead fault		
Pacemaker pulse display capability	detects pacemaker pulses of ±0.5 mV with pulse widths of 0.2 to 2 ms and ±1.0 mV at 0.1 ms pulse widths		
Pacemaker rejection	pulse period of width 0.1 msec, amplitude up to 700 mV (2 mV, 10 mV, 300 mV, and 700 mV tested), with an overshoot of less than or equal to 4 msec		
Remote record button	yes		
Dimensions (H × W × D)	132 × 75 × 22 mm (5.20 × 2.95 × 0.98 inches)	132 × 75 × 22 mm (5.20 × 2.95 × 0.98 inches)	132 × 75 × 22 mm (5.20 × 2.95 × 0.98 inches)
Weight	<200 g (7.055 oz.) without grouper, batteries, leads	<200 g (7.055 oz.) without grouper, batteries, leads	<200 g (7.055 oz.) without grouper, batteries, leads, SpO ₂ cable
Display size (H × W)	N/A	35 × 47 mm	
Display type	N/A	color LCD	



	96281-A ECG without Display	96281-B ECG with Display	96281-C ECG and SpO ₂ with Display
ECG display	N/A	heart rate, ECG waveform, lead indicator, pacemaker flag	
SpO ₂ display	N/A	N/A	O ₂ saturation, signal quality, pulse rate, pulse waveform
Water resistance	meets EN 60529 IPX7 (temporary immersion of 30 minutes at a depth of 1 meter)		
Output power	608 MHz (-05 model): <7 mW EIRP		
	1400 MHz (-09 model): <7 mW EIRP		
	433 MHz (-32 model): <1 mW ERP		
	442 MHz (-48 model): <1 mW ERP	N/A	
System ECG Signal Range	±4 mV		
DC offset	up to ±300 mV		
Noise	≤50 μV peak-valley		
CMRR	>95 dB		
QRS detection	detects QRS complexes with durations of 40 to 120 ms and amplitudes of 0.5 to 5 mV		
Defibrillator protection	meets IEC 60601-2-27		
System Resolution	4 μV per LSB referred to input		
Input impedance	>10 MΩ differential at 10 Hz		
Gain accuracy	±5%		
Accuracy of signal reproduction	meets IEC 60601-2-27		
Signal bandwidth	0.05 to 40 Hz		
SpO ₂ measurement accuracy	N/A	±2% (at 70 to 100%, Pediatric or Adult) ±3.25% (at 70 to 100%, Neonate)	
Battery types	two AA/LR6 alkaline or two NiMH batteries		
Battery Life, typical alkaline batteries (hours)	>72	>72 for ECG; >24 for ECG and continuous SpO ₂	
Battery status indicators	yellow battery indicator LED flashes when the battery level is low		
RF signal shutdown	1.9 VDC ±0.1		
Radio Compliance FCC	608MHz (-05 model): 47CFR Part 95 FCCID: CM6-670-1187-608 1400MHz (-09 model): 47CFR Part 95 FCCID: CM6-670-1187-1400		
Radio Compliance IC	608MHz (-05 model): RSS210-2010 ICID: TAC 2434A-6701187608 1400MHz (-09 model): RSS210-2010 ICID: TAC 2434A-6701632		



	96281-A ECG without Display	96281-B ECG with Display	96281-C ECG and SpO ₂ with Display
Radio Compliance EU	433MHz (-32 model): EN300 220-2 V2.4.1:2012 442MHz (-48 model): EN300 220-2 V2.4.1:2012		
Radio Compliance Bluetooth	FCC ID: CM6-WT12 ICID: TAC 2434A-WT12 EU: EN300 328 V1.9.1		

Options

Option Groups	Option Identifier	Description of Option	Availability
Transmitter	-A	ECG	-A
	-B	ECG + display	-B
	-C	ECG + display + SpO ₂	-C
Bands	32	G band (433.0625 to 434.7875 MHz)	-A, -B, -C
	48	H band (442 to 446 MHz) <i>Note:</i> <i>Only available in the Netherlands.</i>	-A48N, -B48N
	05	Q band (608 to 614 MHz)	-A, -B, -C
	09	T band (1395 to 1400 MHz) and V band (1427 to 1431.5 MHz)	-A, -B, -C
Channels	N	narrowband (25 kHz bandwidth)	-A, -B
	W	wideband (50 kHz bandwidth)	-A, -B, -C
Leadwires	I	5 leadwires IEC	-A, -B, -C
	J	5 leadwires AHA/AAMI	-A, -B, -C

Relationship to Other Systems

The 96281 telemetry transmitter is directly related only to Spacelabs Healthcare monitoring systems. Data collected by the transmitter may be interfaced from the monitoring system to a hospital clinical information system.

Compatibility

All options of the 96281 telemetry transmitter are compatible with the 96280 Xhibit Telemetry Receiver and related Xhibit™ Central Station. All options—except two—are compatible with the 90478 Digital Telemetry Modular Receivers* and related Ultraview SL™ bedside and central monitors. The two exceptions are Options 32 G (wideband) and 48 H band. These two options are only compatible with the 96280 Xhibit Telemetry Receiver and cannot be used with the 90478 telemetry receiver.

For information that relates to the 96280 Xhibit Telemetry System, refer to the *Xhibit Central Station 96102 (includes Xhibit Telemetry 96280) Operations CD-ROM (P/N 084-2301-xx)* and to the *Xhibit Central Station 96102 (includes Xhibit Telemetry 96280) Service CD-ROM (P/N 084-1479-xx)*.

For information that relates to the 90478 receiver and digital telemetry systems, refer to the *Bedside, Central, and Telemetry Systems Operations Documents CD-ROM (P/N 084-1101-xx)* and to the *Spacelabs Healthcare Service CD-ROM (P/N 084-0700-xx)*.

**National radio frequency allocations restrict distribution to all locales. Check with your local Spacelabs Healthcare representative.*



Classification

MDD	Class IIb
EN 60601-1	Type CF applied part, defibrillator proof Rated for continuous use

Environmental Requirements

Operating	
Temperature	0° to 50° C (32° to 122° F)
Humidity	95% (noncondensing)
Altitude	0 to 3,000 m (0 to 9,843 ft)
Storage	
Temperature	-40° to 75° C (-40° to 167° F)
Humidity	95% (noncondensing)
Altitude	-152.4 to 12,192 m (-500 to 40,000 ft)

Accessories

Refer to the Spacelabs Healthcare Supplies and Accessories Catalog for a complete list of available ECG lead wires and electrodes and SpO₂ sensors from Spacelabs Healthcare.

Transmitter Pouch	P/N 015-0500-02
DIN Standard Safety ECG Lead Wire Set (5 lead), 61 cm (24-inch) snap	P/N 012-0285-11 (AHA/AAMI) P/N 012-0328-00 (IEC)
DIN Standard Safety ECG Lead Wire Set (5 lead), 61 cm (24-inch) pinch	P/N 012-0286-01 (AHA/AAMI) P/N 012-0327-10 (IEC)
TruLink® finger sensor, adult, reusable	P/N 015-0660-00
TruLink foam sensor, adult, single-patient use	P/N 015-0662-00
TruLink vinyl sensor, adult, single-patient use	P/N 015-0663-00
Vinyl sensor, pediatric, single-patient use	P/N 015-0665-00
TruLink cloth sensor, neonate, single-patient use	P/N 015-0667-00
Nellcor OXIMAX DS-100A finger sensor, adult, reusable	P/N 690-0003-01
SpO ₂ adapter cable	P/N 700-0014-00



Leadwire Grouper 5 WAY, AHA,
labelled P/N 706-0184-00

Leadwire Grouper 5 WAY, IEC,
labelled P/N 706-0185-00

Documentation

CD-ROM Part Numbers

*96281 AriaTele Operations Documents CD-ROM
(P/N 084-2201-xx)*

*96281 AriaTele System Service CD-ROM
(P/N 084-2202-xx)*

*Bedside, Central, and Telemetry Systems Operations Documents CD-ROM
(P/N 084-1101-xx)*

*Xhibit Central Station 96102 (includes Xhibit Telemetry 92680) Operations CD-ROM
(P/N 084-2301-xx)*

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

*Xhibit Central Station 96102 (includes Xhibit Telemetry 96280) Service CD-ROM
(P/N 084-1479-xx)*

Supplies and Accessories *Spacelabs Healthcare Supplies and Accessories Catalog
(sa.spacelabshealthcare.com)*

Regulatory Approvals

Medical telemetry spectrum allocations may be assigned to frequencies already allotted to other priority users. This means that telemetry operations may be exposed to radio frequency interference that may disrupt or impede telemetry patient monitoring. Additionally, medical telemetry spectrum allocations may be changed by government action. Spacelabs Healthcare accepts no responsibility for such changes, including the possibility that the product may not operate in the modified permissible spectrum ranges other than those expressly set forth in Spacelabs Healthcare's published product data sheets. Spacelabs Healthcare cannot and does not guarantee interference-free telemetry operation.

Operation of this equipment in the U.S. Wireless Medical Telemetry Service (WMTS) bands requires coordination and registration with the FCC designated frequency coordinator.

96281 Telemetry Transmitters operating in the Wireless Medical Telemetry Service (WMTS) band are approved by the FCC (47CFR Part 95) and Industry Canada (RSS-210).



CSA certified. Meets IEC 60601-1, CSA C22.2 No. 60601.1, and ANSI/AAMI ES60601-1 for electrical safety.



The 96281-32 and 96281-48 medical telemetry transmitter is CE marked in accordance with Medical Device Directive 93/42/EEC.



The 96281-x32y is CE marked in accordance with the Radio and Telecommunications Terminal Equipment (RTTE) Directive 99/5/EC and operates in the European 433.05 to 434.79 MHz harmonized Short Range Device (SRD) band.



The 96281-x48N is CE marked in accordance with the Radio and Telecommunications Terminal Equipment (RTTE) Directive 99/5/EC and operates in the Dutch 442 and 446 MHz licensed telemetry channels.

Consult your local Spacelabs Healthcare sales representative for available frequency bands.

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



The Xhibit™ Telemetry Receiver (96280) provides wireless reception for the Spacelabs Healthcare patient-worn wireless telemetry transmitters. Capable of receiving and analyzing up to 16 patients, the telemetry receiver processes and communicates vital signs data for display on the central station.

Features

ECG analysis

Arrhythmia

- Asystole
- Ventricular fibrillation
- High and low heart rate
- Pacemaker detection
- Ventricular tachycardia
- Pause
- PSVT
- Couplet
- Ventricular run
- R on T PVC
- Ventricular ectopic per minute
- Atrial fibrillation

ST measurement

- Single ST change
- ST index (user-configurable)

Status indicators shown at the Xhibit™ Central Station

- Low battery
 - SpO₂ signal strength
 - Technical alarms
 - Radio signal loss
-



Physical Dimensions

Height	17.8 cm (7 inches)
Depth	35.7 cm (14 inches)
Width	48.3 cm (19 inches)

Electrical specifications

Mains power	100 to 240 VAC, 50 to 60 Hz, 2 to 1 A <ul style="list-style-type: none">• Requires Protective Earth (Ground)• Rated for continuous use• For uninterrupted monitoring, an Uninterruptable Power Supply (UPS) is recommended.
External indicators	Power ON lamp

Environmental Requirements

Operating	
Temperature	0 to 40 °C (32 to 104 °F)
Humidity	95% (noncondensing)
Altitude	0 to 3,000 m (0 to 9,843 feet)
Storage	
Temperature	-20 to 75 °C (-4 to 167 °F)
Humidity	95% (noncondensing)
Altitude	0 to 12,192 m (0 to 40,000 feet)

Options

G band	433 to 435 MHz
H band	442 to 448 MHz
Q band	608 to 614 MHz
T band	602 to 608 MHz (down-converted from 1395 to 1400 MHz by the antenna system)
V band	614 to 620 MHz (down-converted from 1427 to 1431.5 MHz by the antenna system)

Compatibility

The Xhibit™ Telemetry Receiver is compatible with the Xhibit™ Central Station. Not all products are available in all locales. Check with your local Spacelabs Healthcare representative.

Documentation

Xhibit Central Station Operations Documentation CD-ROM (P/N 084-2301-xx)

Xhibit Central Station Service Documents CD-ROM (P/N 084-1479-xx)

*Spacelabs Healthcare Supplies and Accessories Catalog
(www.spacelabshealthcare.com)*

Regulatory Approvals



CSA certified. Meets IEC 60601-1, CSA C22.2 No. 60601-1, and ANSI/AAMI ES 60601-1 for electrical safety.



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



Does not contain hazardous substances — Europe



Does not contain hazardous substances — China

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



The 96102 Xhibit® Central Station provides remote centralized monitoring and alarm management for up to 48 patients. Up to four high-resolution flat panel touchscreen displays allow network control and views of real time surveillance, trends, and patient demographics. The Xhibit Central Station is an integrated system with embedded Clinical Access to review enterprise retrospective data for monitored patients. It also provides access to hospital information sources through Dynamic Network Access™ (DNA™).

Features

Patient Capacity	Shows all parameters monitored for up to 48 patients. Each display can present data from one to 16 patients for maximum parameter viewing.
User Interface	Intuitive controls on the touchscreen interface provide simplified patient management. Keyboard and mouse can also be used.
Printing	Print strips and reports from the Central Station. Receive and print strips from bedside monitors and telemetry transmitters.
Retrospective Review	Embedded Clinical Access allows review of enterprise retrospective data for monitored patients (requires Intesys® Clinical Suite (ICS)). Available information may include: <ul style="list-style-type: none"> • Waveform review including retrospective ECG analysis • Vital signs trends customizable per patient—sorted, grouped, and prioritized • Alarm history • 12-Lead report review • Print jobs from patient monitors that can be captured, previewed, and printed from the Central Station.
Bedside View	See all monitored parameters from a bedside monitor or telemetry transmitter on a single display for optimum review. Freeze data for close inspection and print as needed.



Trends	Shows trend data directly from a bedside monitor or telemetry receiver in an easy-to-read format (replaced by Clinical Access if ICS is present). <ul style="list-style-type: none"> Graphic — Data presentation shows in the same format as the bedside monitor. Tabular — Time increments and periodic intervals show that match the bedside monitor.
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Product Specifications

CPU

Mains Power	100 to 240 VAC, 50 to 60 Hz, 5 A
Connection	<ul style="list-style-type: none"> Six USB connections: mouse, keyboard, touchscreen display, and printer. Supports a hub for additional USB ports. Four high resolution display port connections Two ethernet ports

Display

Power	100 to 240 VAC, 50 to 60 Hz; 2 A
Resolution	1680 x 1050 pixels
Viewing Angle	<ul style="list-style-type: none"> Left/Right: 89°/89° Up/Down: 89°/89°
Diagonal Size	56 cm (22 inches)
Touchscreen	Projected capacitive, edge-to-edge glass screen; USB connection
Connections	Display Port, USB
Internal Speakers	Two at 2 W each

Physical Dimensions (Typical)

CPU

Height	32 cm (12.6 inches)
Depth	31 cm (12.2 inches)
Width	14 cm (5.5 inches)

Display with Stand

Height	39.4 cm (15.5 inches)
Depth	19.3 cm (7.6 inches)
Width	52.3 cm (20.6 inches)



Weight	5.2 kg (11.5 lbs)
Display without Stand	
Height	34.3 cm (13.5 inches)
Depth	4 cm (1.6 inches)
Width	52.3 cm (20.6 inches)
Weight	4.2 kg (9.2 lbs)

Compatibility

The Xhibit® Central Station is compatible with Spacelabs Healthcare Ultraview SL®, qube®, qube® mini, and XPREZZON® bedside monitors, and the Xhibit® Telemetry Receiver. The Central Station is also compatible with Intesys® Clinical Suite (ICS), and selected Flexports. Not all products are available in all locales. Check with your local Spacelabs Healthcare representative.

Environmental Requirements

Operating – CPU	
Temperature	0° C to +40° C (32° F to 104° F)
Humidity	5% to ±95% relative (noncondensing)
Altitude	2,000 meters (6,562 feet)
Operating – Display	
Temperature	+5° C to +35° C (41° F to 95° F)
Humidity	20% to ±80% relative (noncondensing)
Altitude	3,000 meters (9,843 feet)
Storage – CPU	
Temperature	-40° C to +70° C (-40° F to 158° F)
Humidity	5% to ±95% relative (noncondensing)
Altitude	15,000 meters (49,213 feet)
Storage – Display	
Temperature	-20° C to +60° C (-4° F to 140° F)
Humidity	5% to ±95% relative (noncondensing)
Altitude	15,000 meters (49,213 feet)



Accessories

Touchscreen Display	P/N 011-0241-xx
Remote Display Assembly Kit	P/N 041-1226-xx
Printers	The printers are IEC/UL 60950 office equipment and not for use in the patient vicinity.
HP LaserJet M506, 110V	P/N 010-1971-01
HP LaserJet M506, 220V	P/N 010-1886-01

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

Licensing

Patient Zone License (up to 48)	P/N 910-6102-01
DNA License	P/N 910-6102-03

Classifications

MDD EN 60601-1-6 EN 60601-1-8 EN 60950	Class IIb medical device, rule 10
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Documentation

Xhibit Central Station Operations Documentation CD-ROM (P/N 084-2301-xx)
Xhibit Central Station Service Documents CD-ROM (P/N 084-1479-xx)
Spacelabs Healthcare Supplies and Accessories Catalog
(<http://sa.spacelabshealthcare.com>)

Regulatory Approvals



CSA certified.

Meets CSA 60950-1-07, second edition

UL 60950-1, second edition

Hardware Information Technology Equipment (ITE) is NRTL certified and CE marked in accordance with the EMC Directive.

ITE is not suitable for use in the patient vicinity.



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



Does not contain hazardous substances — Europe



Does not contain hazardous substances — China

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



Summary

Intesys® Clinical Suite (ICS) is a system that consists of core services, database, data interface applications, and clinical interface applications. The products that follow are all components of ICS.

92810	Smart Disclosure
92842	Admit Discharge Transfer Interface
92843	Vital Signs Interface
92848	Enterprise Network Interface (ENI)
92876	Custom Trends
92877	12-Lead Electrocardiogram (ECG) Interface
92880	Vital Signs Viewer
92881	Print Manager

Technical Product Requirements

The technical specifications that follow apply to all ICS applications.

Server Requirements	Windows Server 2012 R2 (64 bit)
SQL Database	<ul style="list-style-type: none"> SQL Server 2012 SP4 (64 bit) -or- SQL Server 2014 SP2, with Cumulative Update 10 (64 bit)
Recommended Workstation Requirements	<ul style="list-style-type: none"> Keyboard and mouse 17-inch or larger display (recommended screen resolution is 1280 x 1024 pixels) <p><i>Note:</i> <i>Minimum resolution is 1024 x 768</i></p> <ul style="list-style-type: none"> At a minimum, 10/100 Ethernet network interface card (NIC). For best performance, a 100-Mbps network or higher between workstation and server is recommended. Windows 7 SP1 (32 bit or 64 bit) Windows 10 (64 bit)
Compatibility	ICS is compatible with Spacelabs Healthcare Ultraview SL®, DM3, Xprezzon®, Qube® and Qube® Mini bedside monitors, as well as the Xhibit® Central Station, Xhibit® XC4, Xhibit Telemetry, and Ultraview SL telemetry products.
Security	ICS provides centralized user access management for all ICS applications. Each user provides a user name and password to log on to the Clinical Access application. A log is maintained of functions accessed for everyone using the system.



Licensing Requirements

Configurations vary depending on the needs of the institution. Contact your Spacelabs Healthcare representative for details.

Recommended Server Requirements

Server sizing depends on the complete set of ICS applications and the number of monitors from which data is collected.

Contact your Spacelabs Healthcare representative for version specifics.

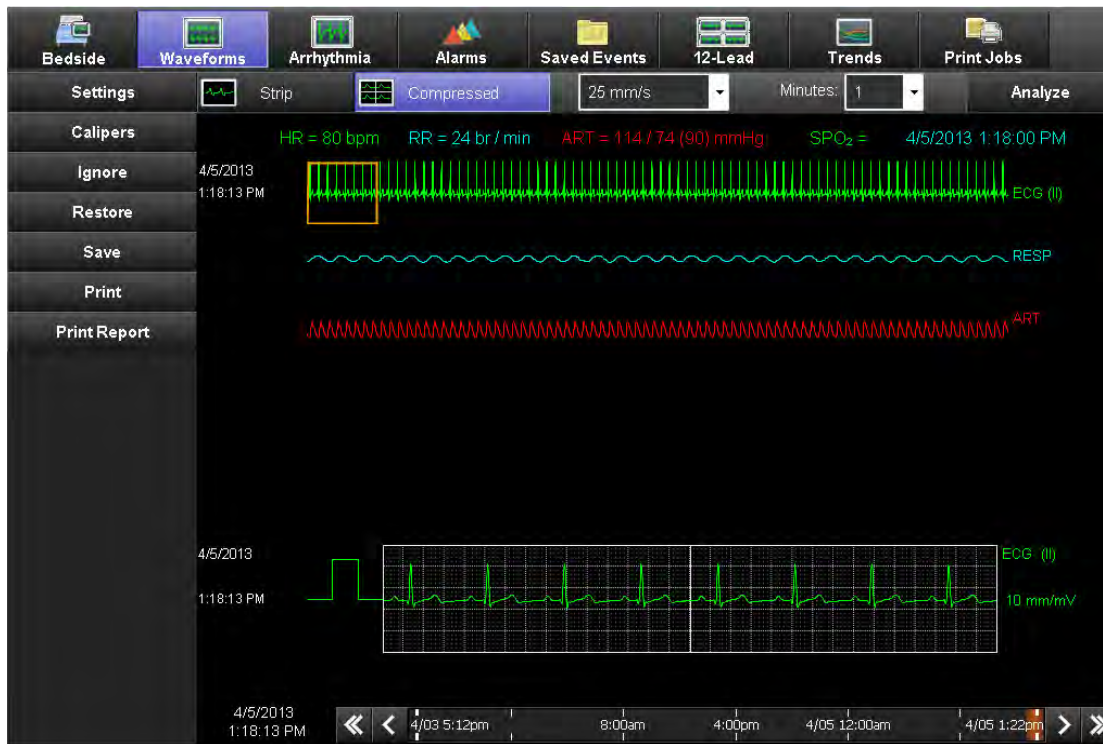
Documentation

Intesys Clinical Suite (ICS) Manuals CD-ROM
(P/N 084-1530-xx)

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



Smart Disclosure (92810)



The Smart Disclosure product collects patient waveforms, alarms, vital signs, and 12-lead reports. A 24-hour waveform acquisition is standard, with an upgrade option to 72 hours. The product provides basic trends in both tabular and graphical format, along with a retrospective ECG analysis. The analysis may be defined by patient, and the data may be presented in multiple formats, including a rhythm, a histogram, and a summary view. Standard reports are available from Smart Disclosure, including saved events, disclosure, trends, histogram, and summary. Smart Disclosure is an integrated component of the Intesys® Clinical Suite (ICS).

Capabilities

Patient Census	The patient list provides access to all monitored patients. A menu allows the user to easily view all departments in a hospital collecting patient data and reports.
Alarms	Review all patient bedside alarms by type, parameter, or priority in two different views: thumbnail or strip view.
Trends	Review patient vital signs, including flexports and peripheral devices, in tabular or graphical format. Vital signs may be logically organized into groups. Groups may be individually expanded or collapsed.
Analysis	Smart Disclosure provides retrospective analysis of acquired ECG waveforms and identifies ventricular rhythms based on an initial dominant rhythm.
Arrhythmia Review	Use a summary, histogram, or thumbnail view to review events. Calipers measure ECG events. Waveforms from other patient parameters are also recorded.
Data Acquisition	Standard 24-hour recording (72-hour option) captures alarm events, waveforms, and 12-lead reports from monitors.
Architecture	Client/Server. Using Smart Disclosure, data from all hospital beds is collected on a single enterprise server and accessed from any network personal computer.



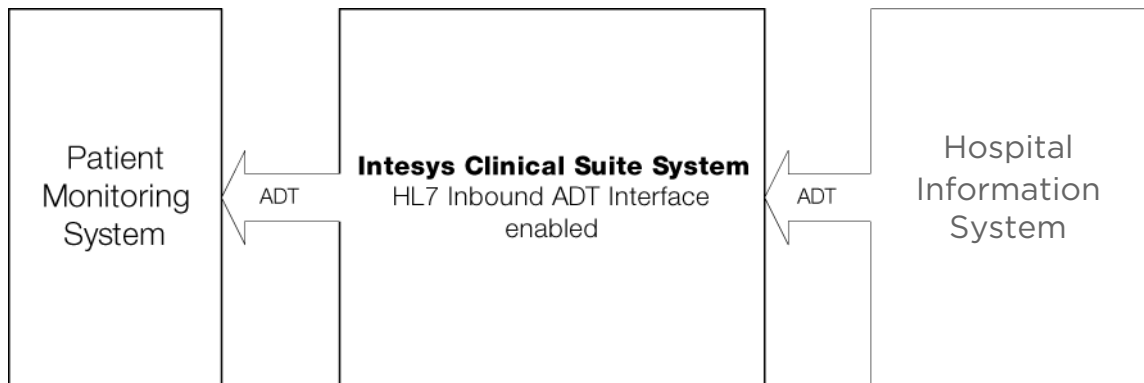
Reports

All Smart Disclosure data and graphs may be printed or saved in PDF format to any location on the network. Reports are user-configurable as to data intervals, time ranges, and inclusion of graphs.

- Waveform report
 - Saved event report
 - 12-lead report
 - Histogram report
 - Summary report
 - Tabular trend report
-



Admit Discharge Transfer Interface (92842)



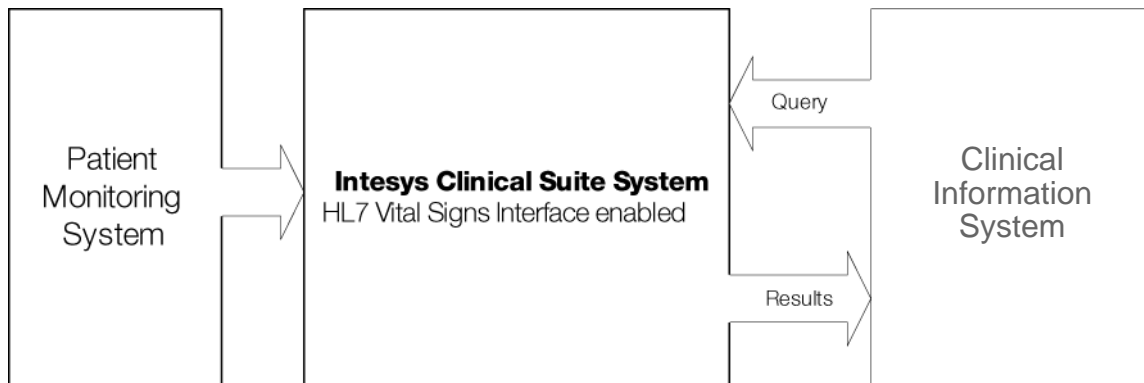
The Admit Discharge Transfer (ADT) interface facilitates the process of loading patient identity and demographic information into the Intesys® Clinical Suite (ICS). The interface functions by receiving Health Level Seven (HL7) messages from the Hospital Information System (HIS). This information is made available to applications in the suite and is used to update Spacelabs Healthcare patient monitors. ADT is an integrated component of the Intesys Clinical Suite (ICS).

Capabilities

Automation	ADT facilitates the entry of patient information into ICS applications and patient monitors.
Message Filtering Standard Configuration	No filtering is provided; all supported messages are processed. Filtering may be performed prior to message delivery by the HL7 Interface Adapter (P/N 999-1900-00) by request.
Message Standard	HL7 version 2.3.1
Messages Supported	A01, A02, A03, A04, A05, A06, A07, A08, A31.
Monitor Update	ADT messages update patient information in Spacelabs Healthcare monitors when the patient ID in the monitor matches the patient identification number in the message.
System Administration	System administration is performed through the ICS Administration Tool, and an HL7 message log.



Vital Signs Interface (92843)



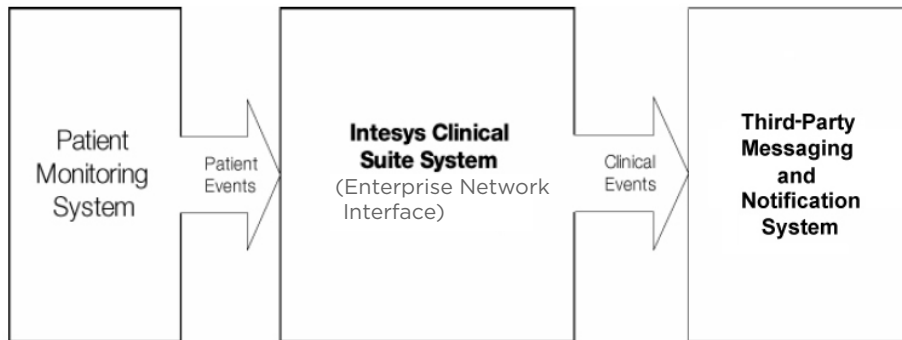
The Vital Signs Interface transfers vital signs data from Spacelabs Healthcare monitors and attached peripheral devices to a hospital clinical information system (CIS). The interface provides solicited and unsolicited Health Level Seven (HL7) result messages to the destination system at a rate that is configurable by clinical unit. The Vital Signs Interface is an integrated component of the Intesys[®] Clinical Suite (ICS).

Capabilities

Vital Signs Interface	The interface sends solicited and unsolicited vital signs collected from patient monitors and telemetry devices to the CIS. Solicited HL7 messages result from queries sent by the CIS to the ICS.
Enterprise Solution	ICS HL7 aggregates all vital signs into a single interface to the CIS.
Data Frequency	Data frequency is configurable from 30- to 36000-second intervals.
Message Standard	HL7 version 2.3.1
Messages Supported	ORU R01, QRY R02, ORF R04
Peripheral Devices	The product supports Flexport [®] system interface data from devices such as ventilators and infusion pumps.
System Administration	System administration is performed through the ICS Administration Tool, and an HL7 message log.



Enterprise Network Interface (ENI) (92848)



The ENI product provides historical information regarding past patient alarm events. The information is not provided in real time and is not intended as a basis for diagnosis, clinical decisions, or active patient monitoring. ENI is intended to transfer data to other vendors' information systems using an industry standard data exchange protocol, such as XML or HL7. ENI is intended for use only when the patient is otherwise actively monitored.

Capabilities

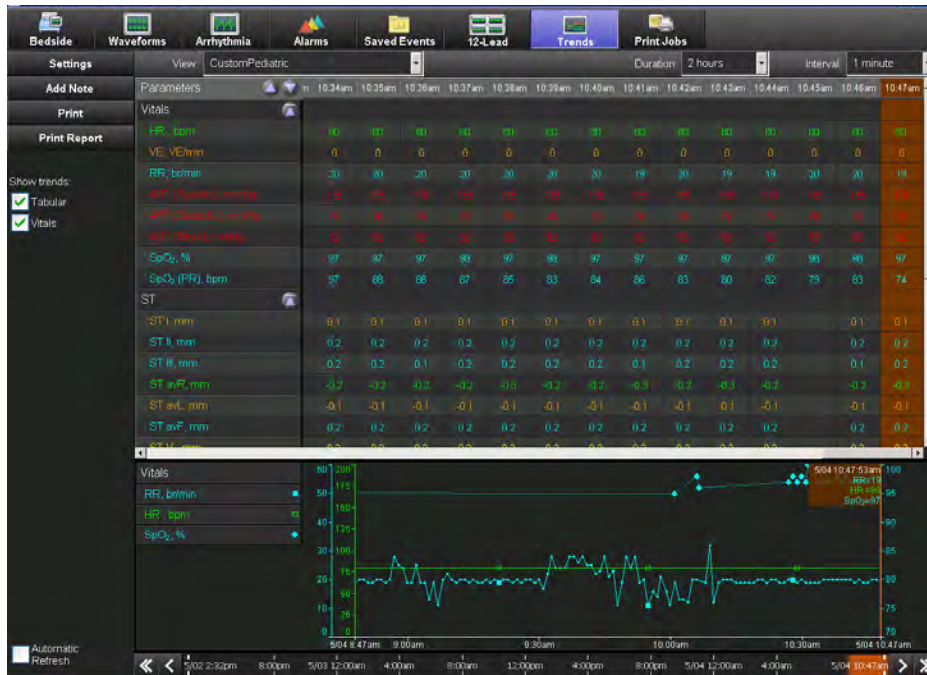
Messaging Standard	The ENI messaging standard is an XML format.
Network Connection	The ENI communicates using TCP/IP protocol.
System Administration	ENI system administration is performed through the ICS Administration Tool, and various configuration files.

Messages

Alarm Information	The historical alarm information may be configured as text-only messages or text with waveform images.
Message Content	The ENI messages includes the Bed Name, Patient Name, Event Data, Event Time, Waveform Images, Patient ID(s), Node ID, Unit Name, Message ID, Sequence Number, Type, and Priority.



Custom Trends (92876)



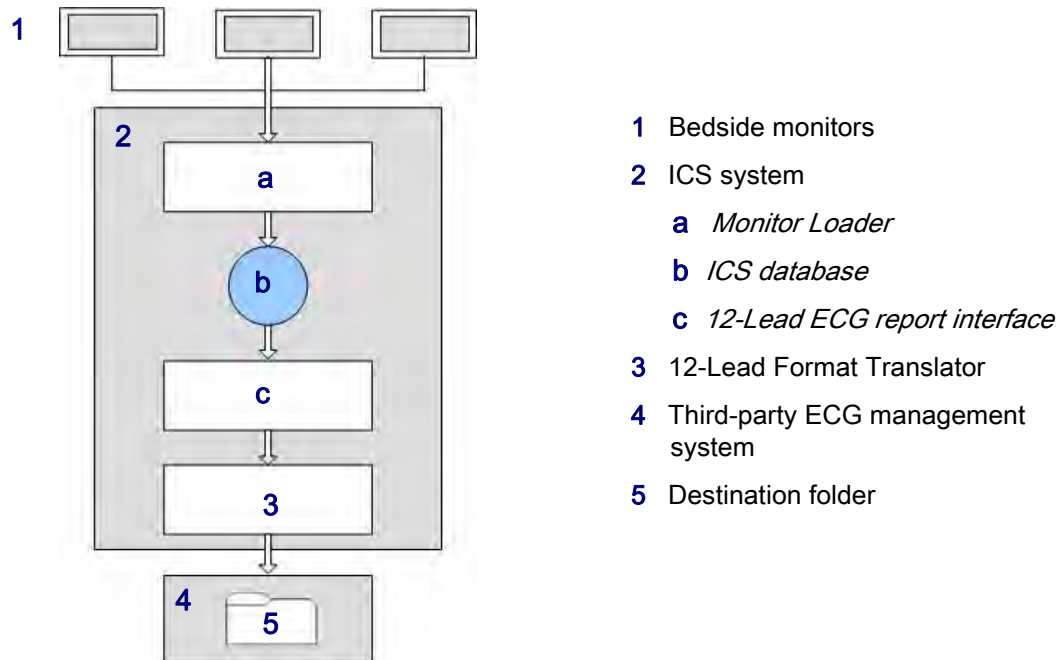
Custom Trends enables you to save custom views for vital signs data from Spacelabs Healthcare monitors and attached peripheral devices. Data may be viewed in user-configurable flowsheets or graphs. Comments and notes may be added to trends to document specific items. Reports may be printed or saved in PDF format. Custom Trends is an integrated component of the Intesys® Clinical Suite (ICS).

Capabilities

Trends Review	The trends flowsheet is an automated collection of numeric vital signs from Spacelabs Healthcare monitors. Graphical trends are optional and may or may not be displayed, depending on user preference.
Views	Create custom views for departments or individual clinicians. Save and reuse default flowsheet formats or specific flowsheet protocols.
Reports	All flowsheet data and graphs may be printed or saved in PDF format. Reports are user-configurable as to data intervals, time ranges, and inclusion of graphs.
Comments	Add comments. Changes are tracked via audit logs.
User Interface	Create and modify trend templates in ICS Administration Tool. Numerous flowsheets may be created for care areas, patient types, or user preferences.
Flowsheet Groups	Vital signs may be logically organized into groups. Groups may be individually expanded or collapsed.
Data Collection Interval	Intervals are configured, per department, from once per minute to once per day. Collection rates may be changed at any time via the ICS Administration Tool. Default automatic collection rates may be set by clinical units. System default collection rate upon installation is one minute.
Peripheral Devices	The product supports Flexport® system interface data from devices such as ventilators and infusion pumps.



12-Lead ECG Interface (92877)



- 1 Bedside monitors
- 2 ICS system
 - a Monitor Loader
 - b ICS database
 - c 12-Lead ECG report interface
- 3 12-Lead Format Translator
- 4 Third-party ECG management system
- 5 Destination folder

The 12-Lead Electrocardiogram (ECG) Interface is a product in the Intesys® Clinical Suite (ICS). This interface enables Spacelabs Healthcare patient monitors, with 12-Lead capability, to send 12-Lead reports to an ECG management system.

A 12-Lead ECG Format Translator is available for ECG management systems not capable of reading the Spacelabs Healthcare 12-Lead ECG report format. The 12-Lead Interface and Format Translator run as background applications, with no user interface.

Capabilities

Architecture	The 12-Lead ECG Interface functions as a Windows service on an ICS server. All 12-Lead reports are stored in the ICS Database for use of applications or interfaces.
Data Acquisition	The 12-Lead ECG Interface captures monitor-initiated 12-Lead ECG reports and places them in a network shared directory for access by an ECG management system.
Data Translation	The format translator translates captured ECG reports from Spacelabs Healthcare format to formats of other ECG management systems.
Export Frequency	The export frequency for the 12-Lead ECG Interface is user-configurable. The default setting is every 60 seconds.
Monitor Setup	The monitor may be configured to send all 12-Lead ECG reports, or to send only user-selected 12-Lead ECG reports.
Monitor Configuration	Monitors must be equipped with an ECG parameter module capable of producing 12-Lead ECG reports.



12-Lead ECG Format Translator

ECG Management System Compatibility

The 12-Lead ECG Format Translator is required to interface to most ECG management systems, such as GE Muse, Epiphany, or Philips Tracemaster. Spacelabs Healthcare uses the DataMedFT solution to translate to external systems. We recommend that you check the ECG management system compatibility list shown in the *12-Lead ECG Format Translator System Administration Manual* (P/N 070-1302-xx).

Note:

The ECG management system compatibility list is based on information provided by DataMed Solutions.

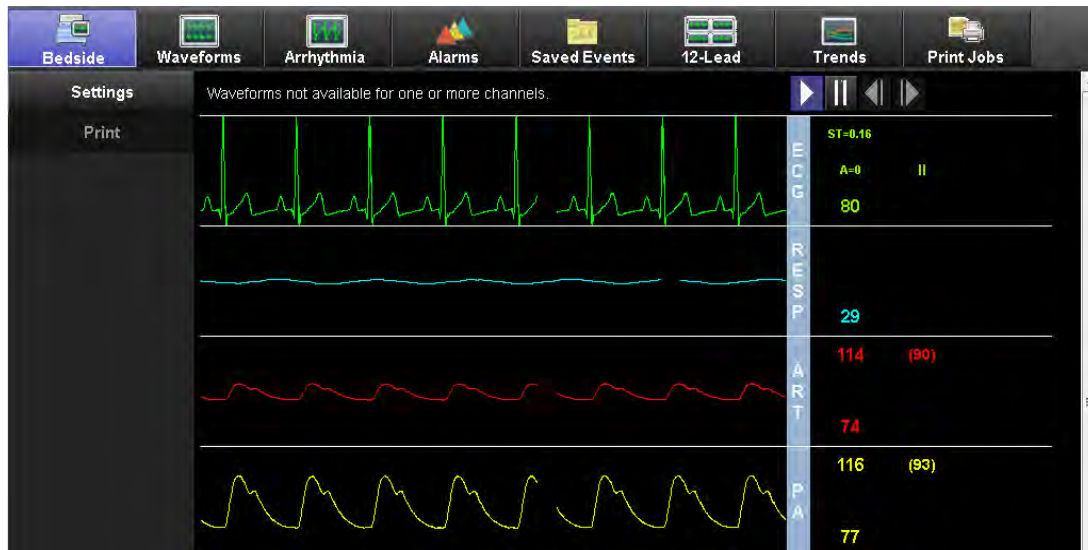
Server Specification

The 12-Lead ECG Format Translator may be installed on an ICS server. Network access to the hospital Local Access Network (LAN) is required. Network access to an ECG management system is required. No additional hardware is required.

Contact your Spacelabs Healthcare representative for version specifics.



Vital Signs Viewer (92880)



Vital Signs Viewer enables you to remotely view near real-time waveforms generated by Spacelabs Healthcare monitors. This application also allows you to view up to six waveforms with associated numerics. They may be paused, scrolled backwards up to 30 seconds, and printed. Vital Signs Viewer is an integrated component of the Intesys® Clinical Suite (ICS).

Capabilities

Display	Up to six waveforms may be selected by the user.
Print	Paused screen waveforms may be printed to the default printer.
Sweep Speed Control	Sweep speeds are adjusted independently for each parameter.
User Interface	Clinical Access hosts the application, displaying patient waveforms and associated numerics; the application is controlled by a mouse or other pointing device.
Waveform Color	Color is selected independently for each parameter. The same color is used by all components of Clinical Access. These defaults are established in ICS Administration.
Waveform Control Keys	Keys operate like those found on cassette tape or compact disk players
Play	Restarts the waveforms after being paused
Pause	Stops the movement of the waveforms for review
Rewind	Rapidly scrolls the waveforms back 30 seconds in time
Fast Forward	Rapidly scrolls the waveforms forward in time up to the present
<i>Note:</i> <i>This product is not intended for use as a diagnostic tool.</i>	



Print Manager (92881)






	Description	Date/Time	Pages
MANUAL RECORDING 13:27 18APR2012 (400)	4/18/2012 1:28:00 PM	1	
4/18/2012 1:25:00 PM (400)	4/18/2012 1:27:55 PM	1	
4/18/2012 1:25:00 PM (400)	4/18/2012 1:28:14 PM	1	
4/18/2012 1:25:00 PM (400)	4/18/2012 1:28:02 PM	1	
ALARM RECORDING 13:25 18APR2012 (400)	4/18/2012 1:25:22 PM	2	
MANUAL RECORDING 13:25 18APR2012 (400)	4/18/2012 1:25:07 PM	1	
ALARM RECORDING 13:25 18APR2012 (400)	4/18/2012 1:25:08 PM	2	

Print Manager enables you to print waveforms and associated annotation values and reports from a monitor to a network printer, instead of using the strip chart printer. Print Manager also retains the print jobs so that you can reprint them at a later time. Print Manager is an integrated component of the Intesys® Clinical Suite (ICS).

Capabilities

Centralized Management	All printer assignments are performed in ICS Administration
Configuration	Standard Windows print spooler
Chart Speeds	12.5, 25, or 50 mm/sec; dependent on the waveform sweep speed shown on the monitor. With Xhibit™ Telemetry, a sweep speed of only 25 mm/sec is used for printed alarms.
Paper	Letter or A4-size plain paper
Printer	Standard Windows network printer. Print Manager is not compatible with parallel port printers.
Print Log	Maintains a log of all print jobs for later review and reprinting from Clinical Access
Print Request Output	Requested waveforms with patient name or ID, parameter ID and values, alarm message and limits (when in alarm), time, and date; arrhythmia class printout; ST printout; non-waveform graphics
Resolution	Dependent on the printer
System Recordings	All recordings are initiated from Spacelabs Healthcare Ultraview SL®, DM3, Xprezzon® and Qube® or Qube® Mini bedside monitors, as well as the Xhibit® Central Station, Xhibit® XC4, Xhibit® Telemetry, and Ultraview SL telemetry products.
Unit Assignment	Supports both a default and an alarm printer for each unit

Regulatory Approvals

Smart Disclosure (92810)	 CE marked in accordance with the Medical Device Directive, 93/42/EEC
Enterprise Network Interface (92848)	 CE marked in accordance with the Medical Device Directive, 93/42/EEC.
Print Manager (92881)	 CE marked in accordance with the Medical Device Directive, 93/42/EEC.