



WIRELESS MONITORING

Available as an option on these portable monitors:

- Ultraview SL2200
- Ultraview SL2400
- Ultraview SL2600



Open-standards. Enterprise Class.

Spacelabs wireless monitoring does not lock you into a proprietary system, but allows you to leverage the investments you've already made. Designed for ease of use and compatibility with global standards, Ultraview SL wireless monitors are compliant with 802.11a/b/g, the IEEE standards that have gained broad acceptance within health care institutions worldwide.

In patient transport when surveillance of critically ill patients may be most challenging, wireless connectivity is particularly important. During wireless operation, all vital signs data from Spacelabs portable monitors can be displayed and viewed on Spacelabs central monitors as well as other bedside monitors. And just as importantly, all patient data can be automatically transferred into the patient EMR via ICS (Intesys Clinical Suite) HL7 interface to ensure seamless documentation.

Qualified Wireless LAN Systems

Spacelabs' Customer Service Notice (CSN) "Networking Volume III: 802.11 Wireless Networks" (077-0302-00) provides a list of various wireless LAN systems that have been tested and qualified for use in deploying a Spacelabs wireless monitoring network. Use of any other wireless LAN system must conform to the specifications noted within.

Please contact your local Spacelabs account executive to request a current copy.

Capabilities and Advantages

- Designed to operate on the hospital's wireless infrastructure for easier and more cost-effective implementation
- On-screen signal strength indicator provides a clear indication of wireless connection status
- Internal dual-diversity dipole antenna system ensures the best available signal reception
- Biomed access to wireless access point information and association status
- Field upgrade kit allows wireless to be added at a time that best meets hospital needs and budget

Ultraview SL

Performance Specifications	
Operation mode	802.11a, 802.11g or 802.11b wireless infrastructure mode
WLAN addressing	Static or dynamic (DHCP) UDP/IP
Network data throughput (640-node network)	<p>802.11a: Requires a minimum 5.5 Mbps available bandwidth with 20 or less Ultraview SL wireless monitors per AP.</p> <p>802.11g: Requires a minimum 5.5 Mbps available bandwidth with 20 or less Ultraview SL wireless monitors per AP.</p> <p>802.11b: Requires a minimum 2.2 Mbps available bandwidth with 10 or less Ultraview SL wireless monitors per AP.</p>
Security settings	<p>Disabled: Open</p> <p>WEP64/ WEP128: Open, Shared Key or EAP</p> <p>WPA (TKIP)/ WPA2 (AES): PSK or EAP</p> <p>NOTE: The EAP method can be configured for either LEAP or PEAPv0 (MSCHAPv2).</p>
AP signal strength	Requires a minimum of greater than -65 dBm. Also requires a minimum of +10 dB signal strength above the ambient noise floor in all coverage areas.
Interference susceptibilities	802.11b/g networks operate in the 2.4 GHz range of the ISM band and are susceptible to interference from other devices, including but not limited to, microwave ovens, microwave communication signals, Frequency-Hopping (FHSS) systems, Bluetooth devices, cordless phones or other devices using the 2.4 GHz band.
Configuration requirements	<p>To optimize use of network bandwidth, Spacelabs wireless monitors must be connected to a network configured for IP operation, with access points connected to a switch port supporting (and enabled for) IGMP and IGMP/CGMP snooping. Any network hubs must also be replaced with switches.</p> <p>NOTE: Ultraview SL monitors with software version 2.03.00 or higher support IGMPv1, IGMPv2 and IGMPv3.</p>

NOTE: Spacelabs Ultraview SL wireless monitors continuously transmit patient data to Spacelabs central monitors or other bedside monitors for the purpose of remote alarm notification. This requires continuous, uninterrupted network service. As a result, an 802.11x access point that can accommodate 20-30 "normal" computer users with applications that need only intermittent service may be unable to support the intended number of Spacelabs wireless monitors.

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Product may not be available in all locations. Check with your local Spacelabs representative.

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