Summary

The Ultraview® 1050 Monitor is a lightweight, compact, highly portable monitoring system that has a large, thin film transistor (TFT) color display with 140° viewing angle. The monitor uses touchscreen controls. The Data Shuttle® option allows up to 24 hours of patient data to be transferred to other Spacelabs Medical monitors. The advanced power management system maximizes battery performance during transport and includes a battery “fuel gauge.”

Features

**Touchscreen**  With the exception of power (ON/OFF), all controls are on-screen touchkeys. Touch is sensed by infrared optical devices. Optional controls include mouse and keyboard.

**Waveform Capacity**  4, 5, or 6 waveforms

**Module Capacity**  The 90369 monitor accepts one Ultraview or PCMS™ module internally, and will support up to two additional modules, using the 90499 module housing.

**Parameter Capacity**  18 parameters, utilizing Ultraview and PCMS modules as well as Flexport® system interfaces

**Trends**  24 hours of trend data may be graphically displayed.

**Graphic**  1-, 2-, 6-, 12-, or 24-hour segments; data is stored in 1-minute resolution (6-hour segment is the default)

**Tabular**  Time increments of 1, 5, 10, 15, 30 minutes; 1, 1.5, or 3 hours (1 hour is the default)
90369 Ultraview 1050 Monitor

Remote View/Alarm Watch  When equipped with the Ethernet option, the 1050 provides a waveform display from a remote bedside or telemetry patient on the Ultraview network upon request (Remote View) and/or in response to an alarm (Alarm Watch). The 1050 provides a waveform display from any one of up to 32 selected beds. An Ultraview bedside monitor can be remotely viewed by up to 16 network devices simultaneously (e.g., monitors, workstations).

Display
- Trace Height: 4.2 cm (1.65 inches) or 6 cm (2.36 inches)
- Sweep Speed: A variety of speeds are available under module control

Ethernet Communication  10BaseT modular connector (RJ45) provided

Wireless Ethernet Capability  Provides 2.4 GHz frequency-hopping spread-spectrum communication. The wireless Ethernet will send one to five waveforms and numeric vital signs to the Ultraview Care Network™.

Color TFT Display
- Resolution: 640 × 480 pixels
- Size: 21.11 cm (8.31 inches) wide by 15.85 cm (6.24 inches) high

Software Updates  Software, including new features and capabilities, is easily updated over the network.

Options

F  Ethernet interface, SDLC, audio I/O, video, alarm, serial port; provides noninteractive bed-to-bed communication
M  Mainstream Capnography (CO₂ only)
N  Vital signs calculations
O  Drug dose calculations
P  Interactive network functions — Adds interactive remote view and alarm watch capabilities for parameters displayed from remote bedside and remote functionality for all trends (requires option F)
Q  Data Shuttle to transfer patient information to another monitor
R  Patient Data Logger
U  Dual Channel Internal Recorder
Z  Wireless Ethernet communication
04  Four waveforms
05  Five waveforms
06  Six waveforms

Dual Channel Internal Recorder (Option U)

Printing Method  Thermal array print head

Resolution  Eight dots per millimeter (mm) vertical and 32 dots per mm horizontal at 25 mm per second sweep speed

Paper  Heat-sensitive paper, 50 mm wide × 30 m long, available in a roll

Prints  Manual and automatic alarm recordings for waveforms and vital sign data, trends, calculations; full annotations are included

Frequency Response  Determined by the parameter recorded

Paper Speed  1.56, 3.12, 6.25, 12.5, 25, and 50 mm per second (depending on the monitor sweep speed selected)

Alarm Record  Records any parameters in an alarm state when alarm recording is active

Auto Run  20 seconds or duration of alarm violation (whichever is longer)

Controls  CONVERT TO CONTINUOUS, STOP RECORDING, SLOW ON/OFF, PRINTER ON/OFF

Indicators  Paper out, unit off

Record  Enables selection of up to two active monitor channels plus trends.

www.spacelabshealthcare.com  061-0750-00 Rev. AA 10/06
# 90369 Ultraview 1050 Monitor

## Product Specifications

### Classification

<table>
<thead>
<tr>
<th>MDD</th>
<th>Class IIb</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 60601-1</td>
<td></td>
</tr>
<tr>
<td>Class I</td>
<td>requires outlet with safety ground (Protective Earth) conductor</td>
</tr>
<tr>
<td>Rated for continuous operation</td>
<td></td>
</tr>
<tr>
<td>Type BF defib-proof when Capnography option is installed</td>
<td></td>
</tr>
<tr>
<td>CISPR11, Group 1, Class B</td>
<td>Suitable for use in establishments connected to a low-voltage supply network, which supplies buildings used for domestic purposes</td>
</tr>
</tbody>
</table>

### Electrical Specifications

**Line Input**
- 100 to 240 VAC, 50 to 60 Hz, 2 A

**Batteries**
- One or two 12 V (2.45 Ahr NiMH) batteries may be used, providing 2.5 hours of operation with two batteries (TFT display), for up to 600 charge/discharge cycles. Operating time is dependent on configuration and usage. One and a half hours are required to charge batteries to 100% of capacity with AC connected to rear panel and mains switch in the OFF position; 3-hour charge time required with the mains switch in the ON position.

**Isolation**
- Chassis leakage current not greater than 300 μA (meets AAMI, UL 60601-1, CSA #601.1, and IEC 60601-1 standards)

### Physical Dimensions

- **Height** 21.1 cm (8.3 inches)
- **Depth** 15.8 cm (6.2 inches)
- **Width** 29.7 cm (1.7 inches)
- **Weight** 4.6 kg (10 pounds)

### Environmental Requirements

**Storage**
- **Temperature**
  - -25° to 60° C (-13° to 140° F)
  - [-20° to 60° C (-4° to 140° F) for option -M]
- **Humidity** 95% (non-condensing)

**Operating**
- **Temperature**
  - 0° to 50° C (32° to 122° F)
  - [10° to 40° C (50° to 104° F) for option -M]
- **Humidity** 95% (non-condensing)
- **Altitude**
  - 0 to 12,192 m (0 to 40,000 feet)
  - [0 to 3,048 m (0 to 10,000 feet) for option -M]

### Electromagnetic Compatibility

**EN 60601-1-2: 2001**
- **Emissions (CISPR 11)** EN 55011, Class B
- **EN 61000-3-2**
- **Harmonics**
- **EN 61000-3-3**
- **Flicker**
- **Mili-Std-461D**
- **RE101**
- **IEC 61000-4-2**
- **ESD, 8 kV contact/15 kV air**
- **IEC 61000-4-3**
- **RF Fields, 20 volts/meter, 26 MHz to 2.5 GHz**
- **IEC 61000-4-4**
- **Burst, 1 kV differential/2 kV common mode**
- **IEC 61000-4-5**
- **Surge, 1 kV differential/2 kV common mode**
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IEC 61000-4-6  
Conducted RF, 3 Vrms  
150 kHz to 80 MHz

IEC 61000-4-8  
Magnetic Field (50/60 Hz),  
60 Amps/meter

IEC 61000-4-11  
Power quality, voltage, and  
frequency variations

Mil-Std 461D  
CS114, 120 dBμA 10 kHz to  
400 MHz

Accessories

P/N 119-0251-01  
100 to 240 VAC converter  
Note This AC converter is  
mandatory and is included at no  
charge.

P/N 146-0055-00  
Rechargeable NiMH battery  
Note NiMH batteries require  
units with a minimum serial  
number of 369-1XXXXX. SLA  
batteries may be used with all  
serial number units.

P/N 010-1114-01  
Dual external NiMH/SLA  
battery charger, 100 to 240 V

P/N 016-0369-00  
Bed rail mount (for 90369  
without capnography option)

P/N 016-0369-01  
Bed rail mount (for 90369  
with capnography option)

P/N 040-0992-00  
Conversion kit 10BaseT  
to AUI

P/N 010-0609-00  
Mouse, PS2  
A variety of GCX-brand mounting  
and mobility solutions are  
available from Spacelabs or GCX  
directly.

For information about required  
supplies, please refer to the  
Spacelabs Medical Supplies and  
Accessories Catalog.

Documentation

Ultraview Operations Documents CD-ROM (P/N 084-1101-xx)
Spacelabs Medical Service Documents CD-ROM (P/N 084-0700-xx)
Spacelabs Medical Supplies and Accessories Catalog CD-ROM (P/N 084-1201-xx)

Regulatory Approvals

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

Meets EN 60601-1.  
Capnography option meets  
EN 864. CE marked in  
accordance with the Medical  
Device Directive 93/42/EEC.