

90369 Ultraview 1050 Monitor



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

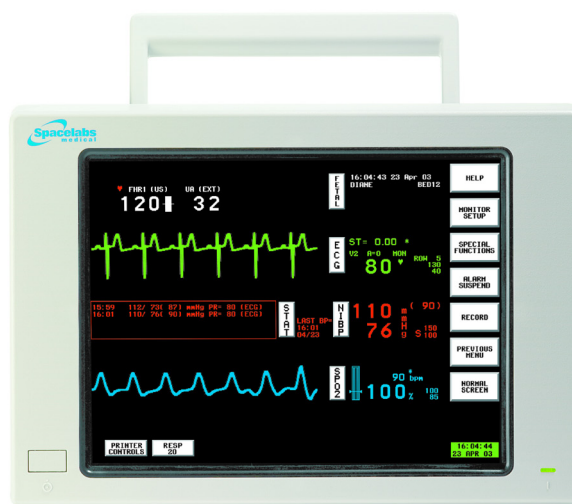
support up to two additional modules, using the 90499 module housing.

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)



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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) 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
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 bed-sides 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.

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Product Specifications

Classification

MDD Class IIb

EN 60601-1

Class I requires outlet with safety ground (Protective Earth) conductor

Rated for continuous operation
Type BF defib-proof when
Capnography option is installed

CISPR11, Group 1, Class B Suitable for use in establishments connected to a low-voltage supply network, which supplies buildings used for domestic purposes

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 μ A (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)

Altitude
0 to 12,192 m
(0 to 40,000 feet)

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 4,572 m
(0 to 15,000 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

Mil-Std-461D
RE101

Immunity

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
CS101, 12 Vrms 10 kHz to
150 kHz

Mil-Std 461D
CS114, 120 dB μ A 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.