

Portrait VSM

Vital signs monitor

Care with confidence

The next evolution of the DINAMAP vital signs legacy, the Portrait™ VSM monitor offers fast, accurate clinical measurements and seamless EMR connectivity that enables nurses to focus on taking care of their patients while easily documenting the patient information.

200 76 m 37.0 m

Features

- Configurable monitor that can be used for spot-checking or continuous monitoring, providing you the flexibility of two devices in one
- Designed for adult, pediatric and neonatal use
- Noninvasive blood pressure measurement uses GE HealthCare's exceptional DINAMAP™ technology
- Includes the same algorithms for NIBP and SpO2 as other higher acuity GE HealthCare monitors, helping ensure measurement consistency across all care areas
- Up to seven different EWS protocol profiles supported. (NEWS2+MEWS + 5 customized EWS=7 protocols)
- Three choices for pulse oximetry include TruSignal™; Nellcor™
 OxiMax™ or Masimo SET®, displayed also as a waveform
- Three options for temperature include Exergen®
 TemporalScanner™, HeTaiDa Non-Contact Infrared Body
 Thermometer and Welch Allyn® SureTemp®
- Connectivity to any HIS system through the HL7® interface engine, or direct to certain IHE-compliant systems

- Connectivity to Cerner™ Millenium™ EMR via CareAware™ VitalsLink™ with help of an iBus™ protocol
- Communicates through your enterprise wireless or wired network, with low bandwidth usage
- Typical battery life of up to 5.5 hours before requiring recharge. If the battery is discharged, patient data is not lost
- Ability to use a barcode scanner during the positive patient identification process and to identify the caregiver
- Round Advisor™ to help you prioritize patients for efficient rounding.
- Respiration rate timer to help with accurate measurement
- Thirty manual observation fields options to streamline integration into the patient record.
- The monitor can store up to 10,000 snapshot entries
- Designed for easy serviceability with simple field replacement kits
- Ability to copy the configuration of a monitor to other Portrait VSM monitors via USB connection

Technical specifications



Display

Size 10.1 in (diagonal)
Resolution 1280x800 (WXGA)
Controls Capacitive touch screen

System

Operation system

Cooling system Linux

Natural convection, no fan inside for

cooling

Printer

Printer type Thermal dot array
Horizontal resolutions 24 dots/mm (600 dpi)
Vertical resolution 8 dots/mm (200 dpi)

Paper type Thermal printer paper, roll, 50 mm

wide

Network and data security

Wi-Fi certificate CE, FCC

Wi-Fi Authentication Support WPA-Personal;

WPA2Personal; WPA-Enterprise;

WPA2Enterprise

Wi-Fi Data Encryption Support WPA/WPA2 with TKIP and

AES CCMP

LAN / WLAN Connection Supports IEEE 802.1X port-based

Network Access Control (NAC)

USB file exchange All USB functions are password

protected

Encrypted export of user settings,

and service logs

Filesystem Encrypted

NTP service Secured NTP with Network Time

Security (NTS)

Wi-Fi Security FIPS 140-2 Inside

Temperature options

Exergen TemporalScanner temporal artery thermometer, Welch Allyn SureTemp thermometer or HeTaiDa Non-Contact Infrared Body Thermometer

SpO₂ options

Available either with GE TruSignal, Masimo SET or Nellcor OxiMax oximetry technologies

Barcode reader

Support for optional medical grade barcode reader via USB

Performance specifications

Alarms

Alarms are provided for all physiological parameters except temperature. The monitor does not alarm in a spot check operating mode.

In the monitoring mode, there are three alarm priorities: high, medium and low and notifications for technical notes.

TruSignal SpO2 specifications

Measurement range 0 to 100%

Measurement accuracy Without motion-adult/pediatric

Finger sensor: 70 to 100% ±2% Without motion-neonate:

70 += 1000/ +20/

70 to 100% ±3%

With motion-adult/pediatric/ neonate: 70 to 100% ±3% Low perfusion-adult/pediatric: 70 to 100% ±3% (<70% unspecified)

PI (Perfusion Index) 0 to 32

Masimo SET® specifications

Measurement range 0 to 100% Without motion-

Measurement accuracy adult/pediatric:

70 to 100% ±2%

Without motion-neonate:

70 to 100% ±3%

With motion-adult/pediatric/ neonate: 70 to 100% ±3% Low perfusion: 70 to 100% ±2%

(<70% unspecified)

PI (Perfusion Index) Yes
APOD (Adaptive Probe Off Yes

Detection)

Nellcor[™] OxiMax[™] specifications

Measurement range 0 to 100%

Measurement accuracy Adult: 70 to 100% ±2%

Neonate: 70 to 100% ±3% Low perfusion: 70 to 100% ±2%

<70% unspecified

NIBP specifications

Measurement technique Oscillometric with step deflation
Measurement Modes Single, Automatic (with customseries

cycle time), and Continuous X5min Custom, 1, 2, 3, 4, 5, 10, 15, 20,

Automatic Cycle Times Custom, 1, 2, 3, 4, 5, 10, 15, 2 30 min, 1 h, 1.5 h, and 2 h NIBP measurement ranges

Systolic Adult/Pediatric: 30 to 290 mmHg

Neonate: 30 to 140 mmHg

MAP Adult/Pediatric: 20 to 260 mmHg

Neonate: 20 to 125 mmHg

Diastolic Adult/Pediatric: 10 to 220 mmHg

Neonate: 10 to 110 mmHg

Clinical Accuracy

Mean Difference ±5 mmHg
Standard Deviation ≤8 mmHg

Reporting Standard ANSI/AAMI ISO81060-2 and

IEC 80601-2-30

Neonate: 85 s

Safety features

Default initial inflation Adult/Pediatric: 135 ±15 mmHg

pressure

Maximum determination Adult/Pediatric: 2 min

time

Over pressure monitor Adult/Pediatric cuff pressure exceeds

Neonate: 100 ±15 mmHg

300 mmHg (±6 mmHg);

Neonatal cuff pressure exceeds

150 mmHg (±3 mmHg).

Pulse rate specifications

Measurement range 30 to 250 bpm (From GE TruSignal

SpO2)

25 to 240 bpm (From Masimo SpO2)

20 to 250 bpm (From Nellcor SpO2) 30 bpm to 250 bpm (From NIBP)

Measurement accuracy ±2 bpm (Without motion from

GE TruSignal SpO2) ±3 bpm (With motion from

GE TruSignal SpO2)

±3 bpm (Without motion from

Masimo SpO2)

±5 bpm (With motion from

Masimo SpO2)

±3 bpm (From Nellcor SpO2)

±5% or ±5 bpm, whichever is greater

(From NIBP)

Welch Allyn® SureTemp®

Measurement range $26.7 \,^{\circ}\text{C}$ to $43.3 \,^{\circ}\text{C}$ (80 $^{\circ}\text{F}$ to $110 \,^{\circ}\text{F}$) Measurement accuracy $\pm 0.1 \,^{\circ}\text{C}$ ($\pm 0.2 \,^{\circ}\text{F}$) (Monitor mode)

Display resolution 0.1 °C or 0.1 °F

Exergen® TemporalScanner™

Measurement range 16.0 °C to 43.0 °C (61 °F to 110 °F)

Measurement accuracy ± 0.1 °C (± 0.2 °F) Display resolution ± 0.1 °C or 0.1 °F HeTaiDa Non-Contact Infrared body Thermometer

Measurement range 34.0 °C - 43.0 °C/ 93.2 °F -109.4 °F

Measurement accuracy 34.0 °C - 34.9 °C: ±0.3 °C/

93.2 °F -94.8 °F: ±0.5 °F 35.0 °C - 42.0 °C: ±0.2 °C/ 95.0 °F -107.6 °F: ±0.4 °F 42.1 °C - 43.0 °C: ±0.3 °C/ 107.8 °F -109.4 °F: ±0.5 °F

Display resolution 0.1 °C or 0.1 °F

Respiration rate

Use a numeric keyboard to manually enter RR value in the parameter windows. To improve the accuracy of estimated RR value, the device also provides a timer next to the numeric

keyboard.

Manual observations

Portrait VSM allows users to enter physiological observations of a patient manually for clinical evaluation and record. The observations can be saved for reviewing, printing, or sending to

EMR.

Patient history data

Up to 10,000 groups of patient history record

Barcode Reader

Models supported

CR1500 (CODE) / 1470G2D-5USB-MS

Voyager Extreme Performance (XP)

1470g

(Honeywell)

Codes supported QR code and barcode

Early Warning Score

EWS systems supported:

Any typical EWS scoring systems supported such as MEWS and NEWS2. Customizable configuration with integrated configuration

Up to seven different EWS protocol profiles supported on the same patient monitor. (NEWS2+MEWS + 5 customized EWS=7 protocols)

Facility can define their EWS protocol to include:

- Measured parameters (NIBP, SpO2, Temp or Pulse Rate)
- Manually entered observations (numerical or selection list)
- Subscore scales 0-2, 0-3 or 0-4 are supported
- Total up to 15 parameters

EWS user interface

Total EWS score is on the main screen with color coding. Clinical response and individual parameter scores with colors are on a dedicated window.

EWS value and the used scoring system name is able to be sent to the EMR.



Power specifications

AC input 100 to 240V ±10%, 50/60 Hz

Power consumption Monitor ≤150 VA

Protection Class I
Battery Lithium Ion

Charging time < 4 h to 90% capacity

Run time > 5.5 hrs under usage scenario

of NIBP determinations every 10 minutes, SpO2 sensor,

temperature sensor and barcode scanner connected, display brightness set to factory default,

WLAN on

Physical specifications

Ingress protection

Dimensions (H x W x D) $275 \times 265 \times 175 \text{ mm}$ (without Welch

Allyn temperature option)

Weight ≤ 3.8 kg (8.4 lb) (without Welch Allyn

temperature option)

IP22

Environmental specifications

Operating conditions

Temperature

Relative humidity

Atmospheric pressure

5 to 40 °C (41 to 104 °F) without

temperature sensors

10 to 40 °C (50 to 104 °F) with Welch

Allyn temperature sensor 16 to 40 °C (61 to 104 °F) with Exergen temperature sensor 15 to 40 °C (59 to 104 °F) with HeTaiDa temperature sensor 15 to 90% non-condensing (Host) 700 to 1060 hPa (525 to 795 mmHg)

Storage and transport conditions

Temperature -20 to 60 °C (-4 to 140 °F) (Host)
Relative humidity 10 to 90% non-condensing (Host)
Atmospheric pressure 700 to 1060 hPa (525 to 795 mmHg)

Not all products or features are available in all markets. Full product technical specification is available upon request. Contact a GE HealthCare Representative for more information. Please visit www.gehealthcare.com/promotional-locations.

Data subject to change.

© 2023 GE HealthCare

CARESCAPE, DINAMAP, Portrait and TruSignal are a trademarks of GE HealthCare. GE is a trademark of General Electric Company used under trademark license. All other trademarks are property of their respective owners.

Reproduction in any form is forbidden without prior written permission from GE HealtCare. Nothing in this material should be used to diagnose or treat any disease or condition. Readers must consult a healthcare professional.

DOC2839814 2023-06-21