GE HealthCare

Portrait™ VSM

Vital Signs Monitor

Care with confidence

The next evolution of the DINAMAP vital signs legacy

GE HealthCare's Portrait™ VSM vital signs monitor continues building on the trusted DINAMAP legacy with innovative and future-focused capabilities. It delivers the clinical excellence and workflow efficiencies you expect, but with the next era of healthcare in mind.

The Portrait VSM monitor provides the vital signs measurements you can count on while increasing patient comfort and efficiency. Automated workflow and customization options simplify your patient admissions, routine spot checks and observations. In the end, clinicians are empowered to deliver quality clinical care because they now have more time for what matters most, more time with patients.

Patient care and safety
GE HealthCare's clinical excellence together with greater measurement flexibility and enhanced EWS capability give you confidence in the data. These help you make quick, informed decisions that may lead to better patient outcomes.

Complete rounds with ease
Spend quality time with patients by optimizing patient rounding with Round Advisor™ feature, greater data integration, and EMR connectivity. Adjust to continuous measurements quickly and easily to meet the needs of your patients.

Legacy meets next generation
With an intuitive user-interface, customization capability and ease of deployment and remote configuration, Portrait VSM monitor accommodates the way you need and want to work.

Enhancing patient comfort and NIBP measurement performance

Trust speaks volumes in patient monitoring. The Portrait VSM monitor uses proven DINAMAP™ SuperSTAT NIBP technology to provide precise, accurate readings for adult, pediatric and neonatal patients, helping enhance patient comfort and measurement performance even under challenging clinical conditions.

Utilizing "smart cuff" pressure control, the algorithm constantly evaluates data in an attempt to perform in the shortest possible time without compromising quality.

The SuperSTAT algorithm assesses the presence and level of motion artifact by measuring the consistency of the pulse shapes, contributing to reliably accurate NIBP values, even in the presence of motion artifact.

Digital signal processing provides enhanced sensitivity and can detect NIBP values on much smaller signals, such as those patients with low perfusion pressures.[1]

The Portrait VSM monitor leverages the same advanced parameters and algorithms as other higher acuity GE HealthCare monitors, ensuring measurement consistency across all care areas.

1. The data collection and data analysis for this study was conducted in 2019 by an independent third party. The data from this study is stored in GE HealthCare's internal quality record system under reference DOC2452066. Data collection for all devices was done in accordance to a strict protocol to ensure fair comparison. The results from this study can only be interpreted under those specific test conditions and do not reflect usage in a standard clinical environment.

In a 2019[1] benchmark study with four comparator devices, a GE HealthCare monitor with the DINAMAP NIBP algorithm scored:

Fastest determination times

Highest sensitivity at 100% amplitude

Widest measurement range

Comprehensive pulse oximetry options

The Portrait VSM monitor gives caregivers options for measuring oxygen saturation. Choose from three fully proven SpO_2 measurement technologies:

TruSignal SpO₂ technology exceeds the accuracy requirements standards for both normal and challenging patient conditions. It provides accurate measurements for low perfusion and motion conditions in all patient populations, including neonates.

Masimo SET® gives you the benefit of Masimo SET® Measure-through Motion and Low Perfusion pulse oximetry for oxygen saturation (SpO_2), pulse rate and perfusion index (PI).

Nellcor™ OxiMax alert parameter and SatSeconds alarm management feature provide early warning of evolving oxygenation compromise without nuisance alarms.

The right temperature option for you

Providing the flexibility for the ways you work, the Portrait VSM monitor offers three leading temperature technologies:

Exergen TemporalScanner,™ a skin probe, is as accurate as rectal, esophageal and artery thermistor thermometers and suitable for all ages.

Welch Allyn SureTemp® enables capture of 4- to 6-second oral temperatures, 10- to 13-second pediatric axillary and rectal temperatures, and 12- to 15-second adult axillary temperatures.

HeTaiDa Non-Contact Infrared Body Thermometer requires minimal patient involvement to obtain quick, accurate results in a non-touch hygienic manner.

Respiration rate, simply captured

The Portrait VSM monitor allows you to record your patient's respiration rate (RR) in a simple manner. The monitor's timer feature supports accurate measurement and allows simple input of the rate. The RR then appears and is now part of the patient's record.
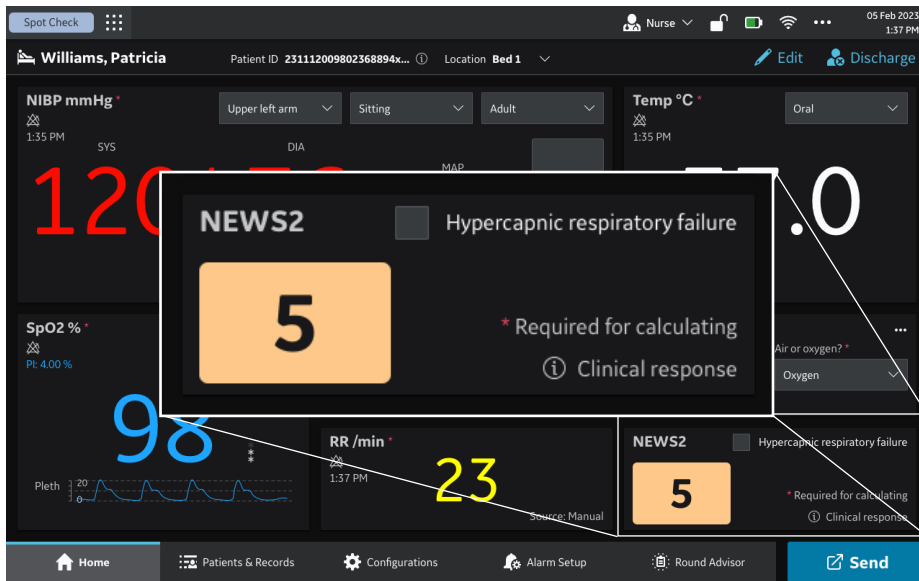
The features you need to help provide better patient care

Early Warning Scores help you to effectively monitor deteriorating patients' conditions and make timely interventions, all while limiting manual calculations and transcriptions. EWS scoring with care instructions are displayed on the screen, and scores are sent to the EMR with the patient vitals.

The Portrait VSM monitor provides up to seven EWS protocols, which include MEWS and NEWS2, plus a configuration tool to allow for five customized EWS protocol profiles, defined by your facility. You can define your EWS protocols to include:

- Measured parameters (NIBP, SpO2, temperature or pulse rate)
- Customizable manual parameters and observations (numerical or from predefined list)
- Subscore scales 0-2, 0-3, or 0-4
- Up to 15 parameters total EWS scores are presented on the main screen with associated color coding, or can be found in the patient record
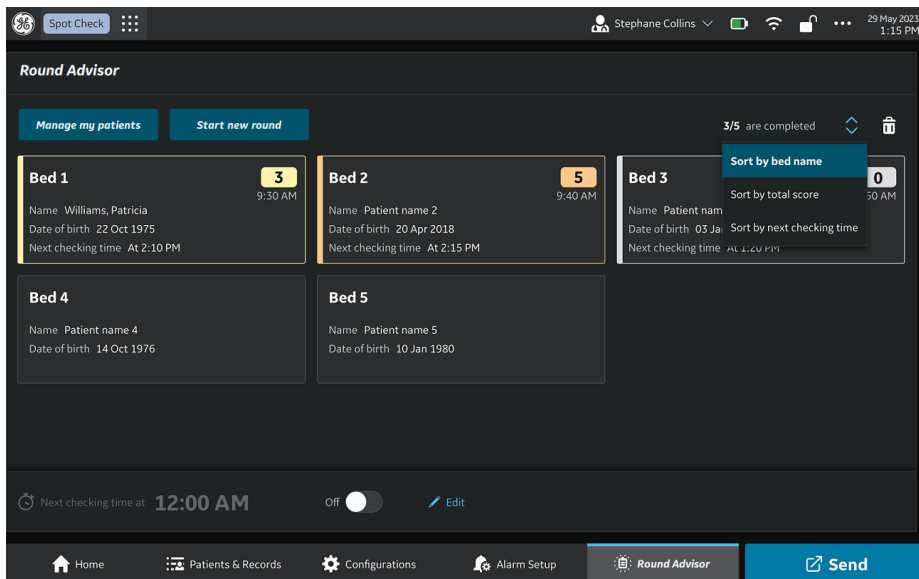
Prioritize the right patient with Round Advisor

The Round Advisor™ feature helps make your workflow more efficient and easier when you need to do spot checks for multiple patients. By visualizing all your patients in one screen and displaying EWS scores and last vitals capture time, clinicians can efficiently prioritize which patient they see next.
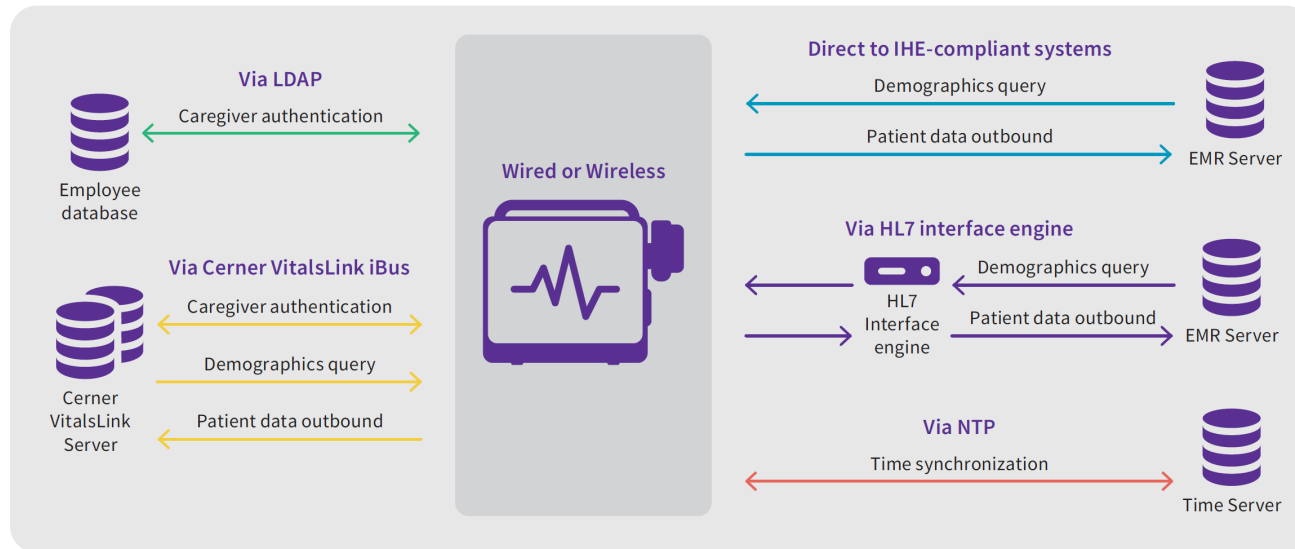
With Round Advisor you can:

- View all your patients in a single, simple screen
- See individual patient measurement and observational data, including optional EWS
- Simplify rounding by selecting individualized patient cards to take additional vitals and observations, or start new rounding

*Disclaimer: The EWS feature is optional and license-based.

Easily move from patient to patient

Today's caregivers have a lot of ground to cover. That's why the Portrait VSM monitor has a digital workflow that's based on the way real-world users prefer to work. With the ability to use barcode scanning for patient and caregiver identification, touchscreen capability to easily see what you want to see, and a direct seamless EMR connection for easily sending vital signs, EWS efficiency is built right in.

Connectivity counts

Caregivers don't want to have to think about integration when they're making the rounds, and with the Portrait VSM monitor, they don't have to. Once configured, the monitor is ready for action.

Via LDAP
Caregiver authentication

Employee database

Via Cerner VitalsLink iBus
Caregiver authentication

Demographics query

Patient data outbound

Cerner VitalsLink Server

Wired or Wireless

Direct to IHE-compliant systems
Demographics query

Patient data outbound

EMR Server

Via HL7 interface engine
Demographics query

HL7 Interface engine

Patient data outbound

EMR Server

Via NTP
Time synchronization

Time Server

Note: LAN optional is also available.

Adaptability that saves time and optimizes resources

We know how important adaptability is in the healthcare environment. We also know how imperative and efficient connectivity and remote access can be when it comes to updating or troubleshooting equipment. The Portrait VSM monitor is positioned to help you adapt to change and to take advantage of today's advances in technology as well as tomorrow's. This monitor:

- Is adaptable for the care area and patient needs
- Features true flexibility by bringing together standard spot check capability with continuous monitoring
- Can transfer configurations to the other Portrait VSM monitors using a USB connection
- May be mobile or wall-mounted, connected through your enterprise wireless or wired network
- Stores up to 10,000 snapshot entries and maintains data when battery is discharged

Easy serviceability for the reliability you need

Patient monitors work hard. The Portrait VSM monitor is designed to be there for you and your patients when you need it. The roll stand is easy to assemble and clean. And with uncomplicated field repair kits, serviceability is streamlined and less time-consuming for the biomed team. Plus, when service is this straightforward, you can count on the high uptime you need to keep patient checks moving.

Diverse patient needs.
# One unified Portrait workflow for better patient care.

GE HealthCare's powerful Portrait Mobile wearable, wireless monitoring solution is designed for those patients that need continuous monitoring, but also need to ambulate. It provides a real-time personalized view of your patient, while measuring dual vector respiration rate, SpO_2 and pulse rate.

The flow of data is uninterrupted and provides continuous trending and meaningful alarms, helping clinicians detect deterioration as it is happening, so they can intervene proactively.

For a more complete, simple patient record, the Portrait VSM monitor works seamlessly with Portrait Mobile, enabling you to capture additional vital signs from the patient, like blood pressure and temperature, efficiently and accurately. Easily generate a QR code on the Portrait Mobile Patient Monitor and then with a single click of the barcode scanner you can admit the patient to the Portrait VSM monitor and your patient's PR, RR, and SpO_2.

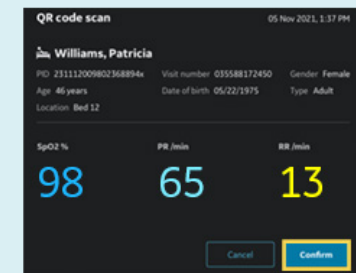Once the additional vitals are taken, send the patient data to the EMR.

This unique solution helps improve workflow and avoid transcription errors, thus enabling better patient experience and safety.[5]
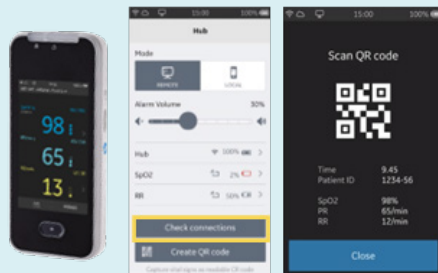
1. Create and display QR code

2. Scan QR code

3. Confirm and run data
Confirm and continue spotcheck workflow

5. Smith LB, et al. Connected care: reducing errors through automated vital signs data upload. *Comput Inform Nurs*. 2009 Sep-Oct;27(5):318-23. doi: 10.1097/NCN.0b013e3181b21d65. PMID: 19726926.

GE HealthCare

About GE HealthCare

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, dedicated to providing integrated solutions, services, and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 100 years, GE HealthCare is advancing personalized, connected, and compassionate care, while simplifying the patient's journey across the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions, and Pharmaceutical Diagnostics businesses help improve patient care from prevention and screening, to diagnosis, treatment, therapy, and monitoring. We are an $18 billion business with 51,000 employees working to create a world where healthcare has no limits.

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