GE Healthcare

Dash 2500

The standard of excellence for low-acuity monitoring

The Dash® 2500 monitor from GE Healthcare allows you to deliver a new standard of clinical excellence to patients in low-acuity settings. Because it is built with the same powerful capabilities as the most clinically-advanced Dash monitors, there's no need to sacrifice performance in the interest of cost. The Dash 2500 is a reliable, affordable bedside monitor that provides the clinical intelligence you need to assess and treat your patients with speed, accuracy and precision.

Clinically advanced
The Dash 2500 includes sophisticated clinical parameters to capture vital patient measurements and unparalleled cardiac monitoring to help accurately detect arrhythmias.

- EK-Pro™ arrhythmia program
- DINAMAP® SuperSTAT™ non-invasive blood pressure
- Masimo SET® or Nellcor® OxiMax® SpO_2
- Alaris® Turbo Temp®

Rugged, ergonomic design
The Dash 2500 is designed for the most demanding clinical environments. Built with outstanding durability, it is also utterly portable and easy to use.

- Meets the same rigorous environmental requirements as all Dash monitors.
- Built with chemically-resistant GE LEXAN® plastic for superior resilience and enduring performance.
- Easily configurable display to suit your viewing preferences and information requirements.
- Compact size and long battery life allow patient transport without data gaps or interruption.

Product Specifications

Mechanical

Monitor: 8.7 in (h) x 6.7 in (d) x 14.1 in (w)
22.0 cm (h) x 17.0 cm (d) x 35.8 cm (w)

Weight

Dash 2500 Patient Monitor: 12 lb (5.5 kg)

Environmental

Operating temperature: 5°C to 40°C (41°F to 104°F)

Storage temperature: -20°C to 60°C (-4°F to 140°F)

Operating humidity: 5 to 95% non condensing

Storage humidity: 5 to 95% non condensing

Operating atmospheric pressure: 700 to 1060 hPa (525 to 795 mmHg)

Storage atmospheric pressure: 500 to 1060 hPa (375 to 795 mmHg)

Electrical

AC input voltage: 100 to 240 V

AC input frequency: 50/60 HZ

AC input power: 120 VA

Internal battery: 8.4 V nickel metal-hydride (NiMH)

Power supply: The Dash 2500 Patient Monitor can be powered from the internal battery or AC power

Battery

Capacity: 8.4 V; 7.0 amp-hr

Battery life: Greater than 180 minutes using fully charged internal battery (NIBP: five min auto cycle with adult cuff. ECG, RESP, SpO_2: Active. TEMP: predictive mode. Printer: printing two waveforms for one min every 20 min at 25 mm/sec)

Charge time:

4 hours maximum with the Monitor switched OFF

8 hours maximum with the Monitor switched ON

Heart Rate/Pulse

Electrocardiography (ECG)

Heart rate accuracy: 30 to 300 bpm, ± 3 bpm or 3% of reading, whichever is greater

NELLCOR SpO_2

Range: 20 to 250 bpm

Accuracy and tolerance: 20 to 250 bpm ±3 digits

Low perfusion: 20 to 250 bpm ±3 digits

MASIMO SpO_2

Range: 25 to 240 bpm

Accuracy and motion tolerance

Without motion: 25 to 240 bpm ±3 digits

With motion: normal physiologic range, 25 to 240 bpm ±5 digits

Noninvasive Blood Pressure (NIBP)

Adult/pediatric range: 30 to 200 bpm

Neonate range: 30 to 220 bpm

Accuracy: ± 3.5%

ECG

Leads available

3-electrode configuration: I, II, III

5-electrode configuration: I, II, III, aVR, aVL, aVF, and VA

Heart rate accuracy: 30 to 300 bpm, ± 3 bpm or 3% of reading, whichever is greater

Heart rate resolution: 1 bpm

Bandwidth:

0.5 to 40 Hz +1/-6 dB

0.05 to 40 Hz +1/-6 dB

0.05 to 100 Hz +1/-6 dB

Standardizing voltage: 1 mV marker

Common mode rejection: 1 mV RTI or 10 mm p-p max displayed noise allowed with 20 Vrms, 50-60 Hz input

Input impedance

Common mode: > 2.5 MΩ at 10 Hz

Differential: > 2.5 MΩ from DC to 60 Hz

60 Hz tolerance: up to 10 mV

Pacemaker detection/rejection

Input voltage range: ± 2 to ± 700 mV

Lead off sensing current: < 0.1 µA DC signal leads, < 1 µA DC driven lead

Respiratory

ECG-Derived Respiration Rate

Leads available: I or II

Range:

6 to 120 breaths/min (adult/pediatric)

6 to 180 breaths/min (neonate)

Accuracy: ± 2 breaths/min or ± 3% of reading, whichever is greater

Resolution: 1 breath/min

Base impedance: 100 to 2000 Ω

Detection sensitivity: 0.2 Ω at 30 breath/min with 500 Ω baseline impedance

NIBP

Method: Oscillometric with step deflation

Modes: Manual, automatic, stat

BP Measurement Ranges

Systolic:

30 to 290 mmHg (adult/pediatric)
4.0 to 38.7 kPa (adult/pediatric)
30 to 140 mmHg (neonate)
4.0 to 18.7 kPa (neonate)

MAP:

20 to 260 mmHg (adult/pediatric)
2.7 to 34.7 kPa (adult/pediatric)
20 to 125 mmHg (neonate)
2.7 to 16.7 kPa (neonate)

Diastolic:

10 to 220 mmHg (adult/pediatric)
1.3 to 29.3 kPa (adult/pediatric)
10 to 110 mmHg (neonate)
1.3 to 14.7 kPa (neonate)

Resolution: 1 mmHg

Accuracy: Meets AAMI/ANSI standard SP10:1992

Initial cuff inflation pressure:

135 ± 15 mmHg default; user selectable (adult/pediatric)
100 ± 15 mmHg default; user selectable (neonate)

Maximum determination: 120s (adult/pediatric)

Maximum determination time:

120s (adult/pediatric)
85s (neonate)

Over pressure monitor:

300 to 330 mmHg (adult/pediatric)
150 to 165 mmHg (neonate)

Hose/cuff interface: Clippard screw connectors at cuff end

Pulse rate: When NIBP is the source, HR values are derived from the pulse rate that is determined by the oscillometric technique of measuring blood pressure. The rate source field is labeled NIBP.

Adult/pediatric range: 30 to 200 bpm (± 3.5% or 3 bpm)
Neonate range: 30 to 220 bpm (± 3.5% or 3 bpm)

Nellcor OxiMax SpO_2

Measurement Range

SpO_2: 1 to 100%

Pulse rate: 20 to 250 bpm

Accuracy

Saturation

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

Pulse Rate

Adult and neonate: 20 to 250 bpm ±3 digits

Low perfusion: 20 to 250 bpm ±3 digits

Masimo SET SpO_2

Measurement Range

SpO_2: 1 to 100%

Pulse rate: 25 to 240 bpm

Accuracy and Motion Tolerance

Saturation

Without motion–adult/pediatric: 70 to 100% ±2 digits
Without motion–neonate: 70 to 100% ±3 digits
With motion–adult/pediatric/neo: 70 to 100% ±3 digits
Low perfusion: 70 to 100% ±2 digits, 0 to 69% unspecified

Pulse Rate

Without motion: 25 to 240 bpm ±3 digits
With motion: normal physiologic range
25 to 240 bpm ±5 digits

Alaris Turbo Temp

Scale:

° Fahrenheit (F)
° Celsius (C)

Predictive mode

Range: 96.0°F (35.6°C) to 106.0°F (41.1°C)

Resolution: 0.1°F (0.1°C)

Monitor mode

Range: 80.0°F (26.7°C) to 108.0° F (42.2°C)

Accuracy: ± 0.2°F (± 0.1°C) (when tested in a calibrated liquid bath; meets ASTM E1112, Table 1, in range specified)

Resolution: 0.1°F (0.1°C)

Probes: Use only Alaris Turbo Temp probes and probe covers. The size, shape, and thermal characteristics of the probe covers can affect the performance of the instrument. Inaccurate readings or retention problems may occur unless Alaris Turbo Temp probes and probe covers are used.

Determination time: Approx. 10 seconds, typical

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Healthcare Re-imagined
GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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GE imagination at work

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