GE Healthcare

Dash 2500

The standard of excellence for sub-acuity monitoring

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

Clinically advanced

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

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

Rugged, ergonomic design

The Dash 2500 monitor is designed for demanding clinical environments. Built with outstanding durability, it is also totally portable and easy to use.

- Meets the same rigorous environmental requirements as all Dash monitors
- Built with chemically-resistant LEXAN® plastic for excellent 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
- Compatible with CARESCAPE™ CIC Pro for centralized viewing

Product specifications

Physical specifications

Height	22.0 cm (8.7 in)
Width	35.8 cm (14.1 in)
Depth	17.0 cm (6.7 in)
Weight	5.5 kg (12 lb)

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
Storage atmospheric pressure	500 to 1060 hPa

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, SpO2: 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

Non-invasive blood pressure (NIBP)

Adult/pediatric range	30 to 200 bpm
Neonate range	30 to 220 bpm
Accuracy	± 3.5% or 3bpm, whichever is greater

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 SP10:2002
Initial cuff inflation pressure	135 ± 15 mmHg default; user selectable (adult/pediatric) 100 ± 15 mmHg default; user selectable (neonate)
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	Compatible with current Dash hoses
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	35.6°C to 41.1°C (96.0°F to 106.0°F)
Resolution	0.1°C (0.1°F)

Monitor mode

Range	26.7°C to 42.2°C (80.0°F to 108.0° F)
Accuracy	± 0.1°C (± 0.2°F) (when tested in a calibrated liquid bath; meets ASTM E1112, Table 1, in range specified)
Resolution	0.1°C (0.1°F)
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	Approximately 10 seconds, typical

GE Medical Systems Information Technologies, Inc.,
a General Electric company, doing business as GE Healthcare.

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 to 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.

GE Healthcare
P.O. Box 900, FIN-00031 GE, Finland
Tel. +358 10 394 11 • Fax +358 9 146 3310

www.gehealthcare.com

GE imagination at work

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