

CARESCAPE V100

Vital signs monitor

The CARESCAPE* V100 monitor is designed for care areas where patients require vital signs measurements. It can go with you from one patient to the next, and because of its speed, accuracy and connectivity, the CARESCAPE V100 monitor collects the right information at the point of care to help you make fast, quality care decisions.

Features

- Can be used for spot-checking or for continuous monitoring, providing you the flexibility of two devices in one
- Designed for adult and pediatric use, as well as neonatal patients with very low perfusion rates
- Includes the same advanced parameters and algorithms as other higher acuity GE monitors, helping ensure measurement consistency across all care areas
- Non-invasive blood pressure measurement uses GE's exceptional DINAMAP* technology
- Three choices for pulse oximetry include GE Ohmeda TruSignal*; Nellcor OxiMax** or Masimo SET**
- Three options for temperature include Exergen** TemporalScanner**, Alaris** Turbo Temp** and Alaris Tri-Site
- Allows for inflation setpoints, so you can be sensitive to patients' special circumstances and ensure their comfort
- Large display makes it easy to read even from a distance
- Stores up to 40 measurements for up to 24 hours with the capability to print strips
- Designed for easy serviceability with a removable panel for easy access and simple field-replacement kits
- Typical battery life of up to 11 hours before requiring recharge. If the battery is discharged, it maintains the data.
- Connect up to three additional accessories simultaneously with the DINAMAP Serial Hub, via the monitor's HostComm (sold separately)



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Durable plastic casing

Integrated printer (optional)

Large, bright LED display

Recessed handle

One-step start/stop button

Internal battery



Easy-to-use scrolling menu

Smart battery indicator

SpO₂ connector
GE TruSignal, Nellcor OxiMax or Masimo SET (optional)

NIBP connector

Intuitive help cards

Exergen TemporalScanner (optional)



Technical specifications

Portability	Carried by recessed handle or on a roll stand
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Printer

Printer type	Thermal dot array
Resolution	384 dots/inch horizontal
Paper type	Must be compatible with GE PN 770137
Languages printed	English, German, French, Italian, Spanish, Portuguese, Hungarian, Polish, Czech, Finnish, Swedish, Danish, Dutch, Norwegian, and Slovak

Temperature options

Exergen TemporalScanner temporal artery thermometer

Alaris Turbo Temp** thermometer

Alaris Tri-site thermometer

Performance specifications

GE TruSignal SpO₂ specifications

Measurement range

SpO ₂	1 to 100%
Pulse rate	30 to 250 bpm
Accuracy	Saturation
Adult	70 to 100% ±2 digits (without motion)
Neonate ¹	70 to 100% ±3 digits (without motion)
Adult/Neonate ²	70 to 100% ±3 digits (during clinical motion)
Low perfusion	70 to 100% ±2 digits (during clinical low perfusion)

Pulse rate

Adult/Neonate	30 to 250 bpm: ± 2 digits or ± 2%, whichever is greater, (without motion)
	30 to 250 bpm: ± 5 digits (during motion)
Low perfusion	30 to 250 bpm ±3 digits

1 SpO₂ measurement accuracy is based on deep hypoxia studies using TruSignal sensors on healthy adult volunteer subjects. Arterial blood samples were analyzed simultaneously on multiple CO-oximeters. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

2 Applicability: TS-AF sensors.

NOTE: Accuracy may vary for some sensors; always check the instructions for the sensor.

GE sensor accuracy

Sensor model	SpO ₂ range 70 to 100%
TruSignal	
TS-F-D ³	±2 digits without motion
TS-W-D ³	±2 digits without motion
TS-E-D ³	±3 digits without motion
TS-SE-3 ³	±2 digits without motion
TS-AF-10 ³	±2 digits without motion
TS-AF-25 ³	±2 digits without motion
TS-F2-GE	±2 digits without motion
TS-F4-GE	±2 digits without motion
TS-E2-GE	±3 digits without motion
TS-E4-GE	±3 digits without motion
TS-SA4-GE	
TS-SA-D ³	

For TS-SA4-GE and TS-SA-D sensors the accuracy range is as following

70 to 100%	90 to 100%	80 to 90%	70 to 80%	below 70%
± 2 digits	± 1 digits	± 2 digits	± 3 digits	unspecified

Sensor light source

Wavelength ⁴	Infrared: 930 to 950 (nominal) Red: 650 to 670 (nominal)
Maximum output power for each LED	< 15mV

3 Requires compatible interconnect cable TS-G3

4 Information about wavelength range can be especially useful to clinicians.

Masimo SET specifications⁵

Measurement range

SpO ₂	1 to 100%
Pulse rate	25 to 240 bpm
Perfusion range	0.02 to 20%

Accuracy and motion tolerance

Saturation	
Without motion adult/pediatric ⁶	70 to 100% ±2 digits
Without motion neonate ⁶	70 to 100% ±3 digits
With motion adult/ped/neonate ^{7,8}	70 to 100% ±3 digits
Low perfusion ⁹	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

Low perfusion performance

0.02% Pulse amplitude	Saturation (% SpO ₂)
% transmission >5%	± 2 digits Pulse rate ± 3 digits

Interfering substances: Carboxyhemoglobin may erroneously increase readings. The level of increase is approximately equal to the amount of carboxyhemoglobin present. Dyes, or any substance containing dyes, that change usual arterial pigmentation may cause erroneous readings.

5 Masimo CSD-1201 (MS-2011 specifications cleared by the FDA).

6 The Masimo SET** SpO₂ parameter with LNOP-Adt sensors has been validated for no-motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies in the range of 70-100% SpO₂ against a laboratory CO-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

7 The Masimo SET SpO₂ parameter with LNOP-Adt sensors has been validated for motion accuracy in human blood studies on healthy adult volunteers in induced hypoxia studies while performing rubbing and tapping motions at 2 to 4 Hz at an amplitude of 1 to 2 cm and a nonrepetitive motion between 1 to 5 HZ at an amplitude of 2 to 3 cm in induced hypoxia studies in the range of 70-100% SpO₂ against a laboratory CO-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

8 The Masimo SET SpO₂ parameter with LNOP-Neo Pt sensors has been validated for neonatal motion accuracy in human blood studies on neonates while moving the neonate's foot at 2 to 4 cm against a laboratory CO-oximeter and ECG monitor. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

9 The Masimo SET SpO₂ parameter has been validated for low-perfusion accuracy in bench-top testing against a Bio-Tek Index 2 simulator and Masimo's simulator with signal strengths of greater than 0.02% and a % transmission of greater than 5% for saturations ranging from 70 to 100%. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population.

Masimo sensor accuracy¹⁰

Sensor model	SpO ₂ range 70% to 100%
LNOP	
LNOP ADT	± 2 digits without motion
LNOP NEO	± 3 digits without motion
LNOP NEO-L	Foot ± 3 digits without motion Finger ± 2 digits without motion
LNOP NEO PT-L	± 3 digits without motion
LNOP Adtx	± 2 digits without motion
LNOP Pdtx	± 2 digits without motion
LNOP DCI	± 2 digits without motion
LNOP DCIP	± 2 digits without motion
LNOP Hi Fi-Neo/adult	Foot ± 3 digits without motion Finger ± 2 digits without motion
LNOP Hi Fi-Infant/Ped	± 2 digits
LNOP Blue Infant	Thumb/Toe ¹¹ ± 3 digits (for 80-100) without motion ± 4 digits (for 60-80) without motion ± 3.3 digits (for 70-100) without motion
LNOP YI Multi-Site	Foot/hand ± 3 digits without motion Finger/toe ± 2 digits without motion
LNOP DC-195	± 2 digits without motion
LNOP TC-I	± 3.5 digits without motion

LNCS

LNCS TCI	± 3.5 digits without motion
LNCS DC-I	± 2 digits without motion
LNCS DC-IP	± 2 digits without motion
LNCS Adult Adtx	± 2 digits without motion
LNCS Ped Pdtx	± 2 digits without motion
LNCS Infant-L	± 2 digits without motion
LNCS Neo PT-L	± 3 digits without motion

Resolution

Saturation (% SpO ₂)	1%
Pulse rate (bpm)	1

10 Masimo CSD-1109 (sensor specification)

11 Masimo SET Technology with LNOP Blue sensors have been validated for no-motion accuracy in human blood studies on neonatal, infant and pediatric patients with congenital, cyanotic cardiac lesions in the range of 60% to 100% SpO₂ against a laboratory CO-oximeter. This variation equals plus or minus one standard deviation, which encompasses 68% of the population.

Sensor light source

Wavelength ¹²	Infrared: 905 nm (nominal) Red: 660 nm (nominal)
Power dissipation	Infrared: 22.5 mW (max) Red: 27.5 mW (max)

Nellcor OxiMax specifications¹³

Measurement range

SpO ₂	1 to 100%
Pulse rate	20 to 250 bpm
Perfusion range	0.03 to 20%

Accuracy

	Saturation
Adult ¹⁴	70 to 100% ±2 digits
Neonate ¹⁴	70 to 100% ±3 digits
Low perfusion ¹⁵	70 to 100% ±2 digits

Pulse rate

Adult and neonate	20 to 250 bpm ±3 digits
Low perfusion ¹⁵	20 to 250 bpm ±3 digits

13 Nellcor N600x Operator's Manual

14 Adult specifications are shown for OxiMax** MAX-A and MAX-N sensors with the N-600. Saturation accuracy will vary by sensor type. This variation equals plus or minus one standard deviation. Plus or minus one standard deviation encompasses 68% of the population. Accuracy is based on deep hypoxia studies on healthy adult volunteer subjects. Arterial blood samples were analyzed simultaneously on multiple CO-oximeters.

15 Applicability: OxiMax MAX-A, MAX-AL, MAX-P, MAX-I, and MAX-N sensors.

Oxi-Max sensor accuracy¹⁶

NOTE: All Nellcor** OxiMax sensors must be used with the Nellcor cable; the SCP-10 cable. RS-10 and Oxisensor** II sensors are not compatible with the CARESCAPE V100.

Sensor model	SpO ₂ range 70 to 100%
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OxiMax

MAX-A, MAX-AL	±2 digits
MAX-N (adult)	±2 digits
MAX-N ¹⁷ (neonate)	±3 digits
MAX-P	±2 digits
MAX-I	±2 digits
MAX-FAST	±2 digits
SC-A (adult)	±2 digits
SC-PR (neonate)	±3 digits
SC-NEO	±3 digits
MAX-R ¹⁸	±3.5 digits

OxiCliq**

OxiCliq A	±2.5 digits
OxiCliq P	±2.5 digits
OxiCliq N (adult)	±2.5 digits
OxiCliq N ¹⁷ (neonate)	±3.5 digits
OxiCliq I	±2.5 digits

Reusable sensor models

D-YS (infant to adult)	±3 digits
D-YS (neonate)	±4 digits
D-YS & D-YSE	±3.5 digits
D-YS & D-YSPD	±3.5 digits
DS-100A	±3 digits
OXI-A/N (adult)	±3 digits
OXI-A/N (neonate)	±4 digits
OXI-P/I	±3 digits

Sensor light source

Wavelength ¹⁹	Infrared: 890 nm (nominal) Red 660 nm (nominal)
Power dissipation	Infrared: 22.5mW (max) Red: 30 mW (max)

16 Nellcor oxygen saturation accuracy specification grid (DOC0318495)

17 The MAX-N, D-YS, OXI-A/N, and OxiCliq N were tested on patients >40 kg.

18 The accuracy specification has been determined between saturations of 80% to 100%.

19 Information about wavelength range can be especially useful to clinicians.

Note: Neonatal Sensor Accuracy: When sensors are used on neonatal subjects as recommended, the specified accuracy range is increased by ±1 digit, as compared to adult usage, to account for the theoretical effect on oximeter measurements of fetal hemoglobin in neonatal blood. For example, MAX-N accuracy on neonates is ±3 digits, rather than ±2 digits.

12 Information about wavelength range can be especially useful to clinicians.

NIBP specifications

Cuff pressure range	0 to 290 mmHg (adult/ped)
(Normal operating range)	0 to 145 mmHg (neonate)
Blood pressure accuracy	
SuperSTAT	Mean error ≤ 5 mmHg,
NIBP algorithm	Standard deviation ≤ 8 mmHg (Meets ANSI/AAMI Standard SP10:1992)
Classic and auscultatory	Mean error ≤ 5 mmHg, standard deviation ≤ 8 mmHg (Meets ANSI/AAMI Standard SP10:2002)
Maximum determination time	120 s (adult/ped) 85 s (neonate)
Overpressure cutoff	300 to 330 mmHg (adult/ped) 150 to 165 mmHg (neonate)

Blood pressure range

SuperSTAT NIBP Algorithm

Systolic	30 to 290 mmHg (adult/ped) 30 to 140 mmHg (neonate)
MAP	20 to 260 mmHg (adult/ped) 20 to 125 mmHg (neonate)
Diastolic	10 to 220 mmHg (adult/ped) 10 to 110 mmHg (neonate)
Classic and auscultatory	
Systolic	30 to 245 mmHg (adult/ped) 40 to 140 mmHg (neonate)
MAP	15 to 215 mmHg (adult/ped) 30 to 115 mmHg (neonate)
Diastolic	10 to 195 mmHg (adult/ped) 20 to 100 mmHg (neonate)

Pulse rate range

SuperSTAT	30 to 240 beats/min (adult/ped)
NIBP algorithm	30 to 240 beats/min (neonate)
Classic and auscultatory	30 to 200 beats/min (adult/ped) 30 to 220 beats/min (neonate)
Pulse rate accuracy	$\pm 3.5\%$ or 3 bpm, whichever is greater

NOTE: To ensure accurate measurements, use only recommended blood pressure cuffs available from GE.

Exergen TemporalScanner specifications

Accuracy	$\pm 0.1^{\circ}\text{C}$ or 0.2°F
Temperature range	16° to 43°C (61° to 110°F)
Operating environment	16° to 40°C (60° to 104°F) (ambient)
Arterial heat balance range for body temperature ²⁰	34.5° to 43°C (94° to 110°F)
Resolution	0.1°C or 0.1°F
Response time	0.04 seconds (approx.)

Alaris Turbo Temp specifications

Accuracy ²¹	$\pm 0.1^{\circ}\text{C}$ or 0.2°F
Temperature range	
Predictive mode	35.6° to 41.1°C (96° to 106°F)
Monitor mode	26.7° to 42.1°C (80° to 107.9°F)
Response time	As fast as 7 seconds

Alaris Tri-Site specifications

Accuracy ²¹	$\pm 0.1^{\circ}\text{C}$ or 0.2°F
Temperature range	
Predictive mode	35° to 41.1°C (95° to 106°F)
Monitor mode	26.7° to 42.1°C (80° to 107.9°F)
Response time	As fast as 11 seconds

²⁰ Automatically applied when temperature is within normal body temperature range, otherwise reads surface temperature.

²¹ When tested in a calibrated liquid bath; meets ASTM E1112, Table 1, in range specified. Accuracy measured in continuous (monitor) mode.

NOTE: To ensure accurate measurements, use only recommended blood pressure cuffs available from GE.

Power specifications

Universal power converter	P/N 2018859-001
AC input voltage	100 to 250VAC, 12VA
DC output voltage	12VDC at 1A The AC mains power adapter contains a non-resettable and non-replaceable fuse.
Protection against electrical shock	Internally powered or Class II when powered from specified external power supply
DC input voltage	12 VDC, supplied from a source conforming to IEC 60601-1.
Fuses	Monitor contains three fuses, mounted within. The fuses protect the low voltage DC input, the battery, and the remote alarm output. The +5 V output on the host port connector is regulated by internal supply.

Battery

Type	Sealed lead acid, 6V, 3.3 Ahr
Battery life	5 hours with NIBP every 5 minutes and SpO ₂ , temperature and printer active 11.5 hours non-SpO ₂ versions with a usage scenario of: NIBP determinations every 15 minutes without temperature active.
Charge time	Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor is on.

Environmental specifications

Operating conditions

Temperature	5° to 40°C (41° to 104°F)
Atmospheric pressure	500 hPa to 1060 hPa

Storage conditions

Storage temperature	-20° to 50°C (- 4° to 122°F)
Atmospheric pressure	500 to 1060 hPa
Humidity range	5 to 95% noncondensing
Radio frequency	Complies with IEC 60601-1-2. Medical Electrical Equipment, Electromagnetic Compatibility Requirements and Tests and CISPR 11 (Class B, Group 1) for radiated and conducted emissions

Physical specifications

Dimensions (H x W x D)	19.5 x 21.9 x 13.5 cm (7.7 x 8.6 x 5.3 in) 19.5 x 25.4 x 13.5 cm (7.7 x 10 x 5.3 in) with Alaris temperature option
Weight	2.4 kg (5.4 lb) including battery
Mountings	Self-supporting on rubber feet, pole mounted, or wall mount bracket

Roll stand (optional)

Height to mounting platform	100 cm (39 in) from floor to lowest position 125 cm (49 in) from floor to highest position
Base Diameter	48 cm (19 in) 5 - 7.6 cm (3 in) casters—all non locking
Basket (H x W x D)	14.6 x 26.3 x 16.8 cm (5.75 x 10.375 x 6.625 in)
Weight	11 kg (24 lb)

Certifications

UL 60601-1, CAN/CSA C22.2 No. 601.1, IEC 60601-1, IEC 60601-1-2, IEC 60601-1-4, IEC 60601-1-8, IEC 60601-2-30, IEC 60601-2-49, EN 1060-1, EN 1060-3, ISO 9919
CE marked to the Medical Devices Directive - 93/42/EEC

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GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at www.gehealthcare.com.

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