

CARESCAPE V100 Vital Signs Monitor

Easy to use. Exceptional results.

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 a “2 in 1” device
- 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 Healthcare monitors, helping ensure measurement consistency across all care areas
- Non-invasive blood pressure measurement uses GE Healthcare exceptional DINAMAP™ technology
- Three choices for pulse oximetry include GE Healthcare's TruSignal™, Nellcor™ OxiMax™ or Masimo SET®
- Three options for temperature include Exergen®, TemporalScanner™, Alaris® Turbo Temp® and Alaris Tri-Site¹
- 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 and simple field-replacement kits
- Connectivity can be made with a PC or other third-party connectivity solutions such as Capsule™ Technologie and Cerner®²
- 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)²

1. Alaris temperature options are not available in CE countries.

2. Not available in CE countries.



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, Spanish, French

Temperature options

Exergen TemporalScanner temporal artery thermometer

Alaris Turbo Temp thermometer³

Alaris Tri-site thermometer³

NIBP options

GE DINAMAP SuperSTAT™

GE DINAMAP Classic³

GE DINAMAP Auscultatory

Performance specifications

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 ⁴	70 to 100% ±3 digits (without motion)
Adult/Neonate ⁵	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

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

TruSignal sensor accuracy

Sensor model	SpO ₂ range 70 to 100%
<i>TruSignal</i>	
TS-F-D ⁶	±2 digits without motion
TS-W-D ⁶	±2 digits without motion
TS-E-D ⁶	±3 digits without motion
TS-SE-3 ⁶	±2 digits without motion
TS-AF-10 ⁶	±2 digits without motion
TS-AF-25 ⁶	±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	±2 digits without motion
TS-SA-D ⁶	±2 digits without motion
TS-AP-10	±2 digits without motion
TS-AP-25	±2 digits without motion
TS-PAW-10	±2 digits without motion
TS-PAW-25	±2 digits without motion
TS-SP-D	±2 digits without motion
TS-SP3-GE	±2 digits without motion

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 ⁷	Infrared: 930 to 950 (nominal) Red: 650 to 670 (nominal)
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Maximum output power for each LED	< 15mV
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3. Not available in CE countries.

4. 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.

5. Applicability: TS-AF sensors.

6. Requires compatible interconnect cable TS-G3

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

Performance specifications *(continued)*

Masimo SET specifications⁸

Measurement range

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

Accuracy and motion tolerance

Saturation

Low perfusion ⁹	70 to 100% ±2 digits 0 to 69% unspecified
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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.

Masimo sensor accuracy

Please refer to the manufacturer specifications sheet for sensor accuracy.

Nellcor OxiMax specifications¹⁰

Measurement range

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

Accuracy

Saturation

Adult ¹¹	70 to 100% ±2 digits
Neonate ¹¹	70 to 100% ±3 digits
Low perfusion ¹²	70 to 100% ±2 digits

Pulse rate

Adult and neonate	20 to 250 bpm ±3 digits
Low perfusion ¹²	20 to 250 bpm ±3 digits

OxiMax sensor accuracy

Please refer to the manufacturer specifications sheet for sensor accuracy.

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.

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

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..

10. Nellcor N600x Operator's Manual

11. 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.

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

Performance specifications *(continued)*

NIBP specifications

Cuff pressure range	0 to 290 mmHg (adult/ped) 0 to 145 mmHg (neonate) (Normal operating range)
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Blood pressure accuracy

DINAMAP SuperSTAT NIBP algorithm	Mean error ≤ 5 mmHg, NIBP algorithm
Classic ¹³ and auscultatory	Standard deviation ≤ 8 mmHg (Meets ANSI/AAMI Standard SP10:1992)
Classic ¹³ 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

DINAMAP 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 ¹³ 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 ¹³ 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	61° to 110°F (16° to 43°C)
Operating environment	60° to 104°F (16° to 40°C) (ambient)
Arterial heat balance range for body temperature ¹⁴	94° to 110°F (34.5° to 43°C)
Resolution	0.1°F or 0.1°C
Response time	0.04 seconds (approx.)

Alaris¹³ Turbo Temp specifications

Accuracy ¹⁵	0.2°F or $\pm 0.1^\circ\text{C}$
<i>Temperature range</i>	
Predictive mode	96° to 106°F (35.6° to 41.1°C)
Monitor mode	80° to 107.9°F (26.7° to 42.1°C)
Response time	As fast as 7 seconds

Alaris¹³ Tri-Site specifications

Accuracy ¹⁵	0.2°F or $\pm 0.1^\circ\text{C}$
<i>Temperature range</i>	
Predictive mode	95° to 106°F (35° to 41.1°C)
Monitor mode	80° to 107.9°F (26.7° to 42.1°C)
Response time	As fast as 11 seconds

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

13. Not available in CE countries.

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

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

Power specifications

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. 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	41° to 104°F (5° to 40°C)
Atmospheric pressure	700 hPa to 1060 hPa

Storage conditions

Storage temperature	-4° to 122°F (-20° to 50°C)
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 lbs) including battery
Mountings	Self-supporting on rubber feet, pole mounted, ¹⁶ or wall mount bracket

DINAMAP Mobility Workstation roll stand (optional)

Height to mounting platform	101 cm (40 in) from floor to lowest position 144 cm (45 in) from floor to highest position
Base diameter	53.3 cm (21 in) 5-7.1 cm (2.8 in) casters – 3 locking
Accessories (H x W x D)	
Accessory bin	10.2 x 33.3 x 22.4 cm (4.0 x 13.1 x 8.8 in)
Surface tray	3.0 x 30.0 x 15.5cm (1.2 x 11.8 x 6.1 in)
Rear canister bin	10.7 x 13.5 x 13.0 cm (4.2 x 5.3 x 5.1 in)
Weight	8.0 kg (17.5 lbs)

Warranty

Two year standard warranty.

Certifications

IEC 60601-1:2012, AAMI ANSI ES60601-1:2005/(R)2012 and A1:2012, CAN/CSA C22.2 NO 60601-1-14:2014

16. Pole mount option not available on the DINAMAP Mobility Workstation roll stand.



Product may not be available in all countries and regions. 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.

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