GE HealthCare

Carestation™ 750
Anesthesia Delivery System

Individualized therapy at your fingertips

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In today's complex perioperative settings, patients are now having procedures at older and younger ages, and their conditions are more diverse and challenging than ever.

GE HealthCare empowers you with cutting-edge technology to deliver better care with ease, efficiency and precision.

The Carestation 750 Anesthesia Delivery System is a modern, sophisticated and easy-to-navigate anesthesia workstation. It's built on our clinically proven platform to give you the control and accuracy you need for high-quality, attentive care.

A Advanced clinical tools that help you deliver individualized therapy.

B An intuitive user interface and intelligent features for visual guidance during a case.

C Efficient, ergonomic design for seamless workflow and ease of service.

These comprehensive capabilities help you deliver precise and reliable anesthesia care to patients regardless of age, size, background and acuity.

Carestation 750 anesthesia machine shown with CARESCAPE™ Canvas Patient Monitor and CARESCAPE ONE Intra-Hospital Transport Monitor.

Embrace simplicity in personalized care

No two cases and no two patients are the same.

GE HealthCare is committed to providing accurate clinical monitoring of all parameters, so clinicians can deliver the optimum, tailor-made general anesthesia to each patient.

The Carestation 750 system features

Customizable case profiles

You can create case profiles according to patient characteristics (such as pediatric, adult, obese), type of procedure, or physician preference. Each profile—available with one touch—includes preset alarm limits, apnea time, ventilation parameters, gas mix, and other essential parameters.*

* Clinicians review and adjust parameters of each case profile prior to starting each case.

Your challenge

Our solution

Spending an extra
15–30% on
anesthetic agents due
to high fresh gas flow rates[1]

Contributing extra
greenhouse gases equivalent
up to **350** cars/year[2,3]

Low-flow software

ecoFLOW software helps support clinicians in the practice of low-flow anesthesia by predicting how much O_2 is needed within the fresh gas flow for each patient to minimize the risk of delivering a hypoxic mixture to the patient—even at very low flows. ecoFLOW has the potential to deliver a positive impact on the environment and reduce agent costs when agent waste gases are reduced.

Improper ventilation
during anesthesia can
cost over **$25K** /case
in post-op lung
complication[4]

Lung protective ventilation software

Programmable, step-by-step lung recruitment maneuver software on the main ventilation display that includes real-time compliance measurement to assess the procedure effectiveness. An exit PEEP feature lets you keep the lung open after the procedure is complete.

40%
of patients
arrive at the PACU
with residual block
each year[5]

Integrated monitoring for tailored anesthesia

The Adequacy of Anesthesia[9] concept (AoA) in the GE HealthCare integrated CARESCAPE™ Monitor utilizes parameters to assess patient responses to anesthetics and neuromuscular blocking agents during surgery. This may help clinicians reduce drug utilization and optimize patient throughput.

Tools at your fingertips with an intuitive interface

The user interface for the Carestation 750 system helps you deliver quality care with natural ease. It allows you to breeze through cases, so you can worry less about the machine and devote more attention to your patients.

1 Direct access to main procedures

There's no more clicking through menus and submenus to access functions you use most often. Lung Recruitment, Timer, Pause Gas Flow, Auto Alarm, Turn Manual Alarm Off and other settings appear on the main ventilation display—right at your fingertips.

4 Consistent user interface

A standard user interface on the Carestation anesthesia machine and the CARESCAPE patient monitor helps reduce training time, so you can easily follow your patients from transport to bedside.

2 Clear status indication

You get clear indication of system status on the display when using Auxiliary Common Gas Outlet (ACGO), Aux O_2 + Air or standby mode, or when you switch from bag to mechanical ventilation.

3 Intelligent lighting

Whenever auxiliary ports are in use, lighting indicates the active flow controls. Visual reinforcement on the ventilation screen highlights flow status.
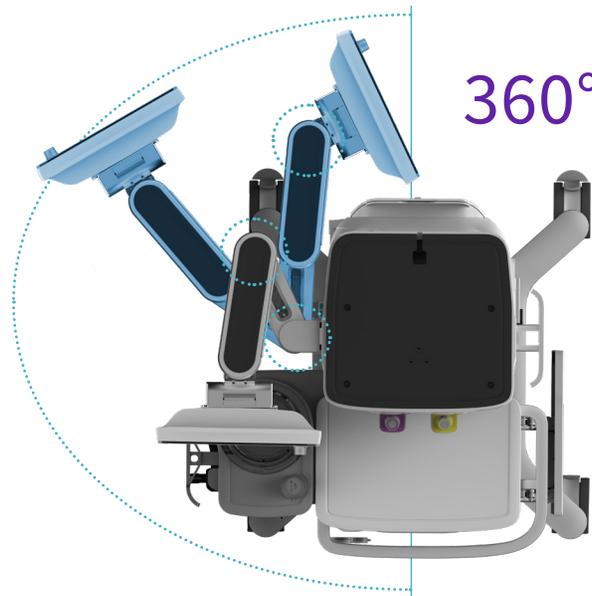
Complete cases with speed, efficiency and comfort

Your challenge

35%

of patient injuries from anesthesia gas delivery are preventable by proper pre-use machine check[6]

Based on extensive usability studies, we designed the Carestation 750 workstation to be compact with features that provide convenience and comfort to help alleviate workday stress.

Ergonomic convenience

An optional, full-function premium arm supports the display. With extend, tilt, raise/lower, and 360-degree swivel, you have maximum flexibility to stay close to the patient and have all controls within easy reach. The display can be positioned for optimal viewing even if you need to step or move into an alternative position without compromising your view.

360°

Our solution

Fast, complete and self-guided checkout

The daily checkout process is as simple as it is thorough. Clear, step-by-step, guidance on the screen lets you run a complete checkout, including a vaporizer test completed in 3.5* minutes.

3.5 minutes

* Based on a single vaporizer configuration. Actual times may vary.

Streamline your care pathway

The intelligently designed CARESCAPE ONE monitor is an independent, intra-hospital transport monitor and a multi-parameter acquisition module that is compatible with the CARESCAPE monitoring portfolio across different care areas. In a simulated user study using CARESCAPE ONE, the monitor reduced total transport time by 26% and transport user errors by 60% compared to an analogous solution.
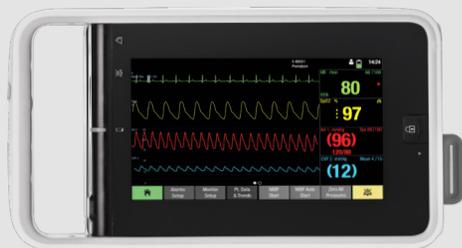
26%
reduction in transport time (based on simulated usability study)[8]

60%
reduction in user errors[8]

Simplified cable management

A specially designed rear door covers all cables and hoses, yet still allows easy access to gas cylinders, gas connectors and circuit breakers. Cables and hoses are shielded from dust, and the smooth exterior simplifies surface cleaning.

A hose hook makes it easy to maneuver the unit inside and outside the OR. The machine top provides ample workspace with lighting for dark environments.

Enjoy new capabilities on a familiar, proven platform

The Carestation 750 machine is built on an established GE HealthCare anesthesia platform trusted by clinicians worldwide.

Your challenge

OR delays may cost a hospital over
$60
per minute[7]

Our solution

Modular design

Self-contained subsystems such as the integrated gas module (A) and breathing system (B), are designed for rapid removal and replacement without tools to minimize OR late starts or downtime.

Software tools allow you to manage diverse patients and procedures with precision, enabling positive patient outcomes.

Pause gas flow
Simplify temporary circuit disconnect.

Spirometry loops and waveforms
Visualize ventilation status for easy interpretation.

ecoFLOW
Practice low flow with confidence.

Single-step and multiple-step lung recruitment
Automated lung recruitment maneuvers.

Electronic flow valve technology provides fast response times, quickly achieves set pressures and precisely delivers tidal volumes as low as 5 ml in pressure controlled ventilation (PCV) mode.[10] This precision helps deliver personalized care to ventilate from the simplest to the most complex cases and patient types.

Thanks to its small volume and linear design, The Compact Breathing System provides a fast response to changes in fresh gas flow composition even at low and minimal flow. Maintenance is simplified with the modular and quick release design.

These features are available across the platform to deliver a consistent experience for your staff, simplify your adoption of new technology, and protect legacy investments in your anesthesia equipment fleet.

CARESCAPE patient monitors – a perfect OR pairing

Bring familiarity and precison when monitoring patient responses and status to Carestation 750 anesthesia delivery.

Rely on our family of CARESCAPE patient monitors to help you make decisions for each patient type with scalable solutions that use our innovative FlexAcuity™ software and measurement technologies. We can help you optimize care across different patient populations with robust parameters that deliver the accuracy you need to make proactive clinical decisions from the OR to the beside.
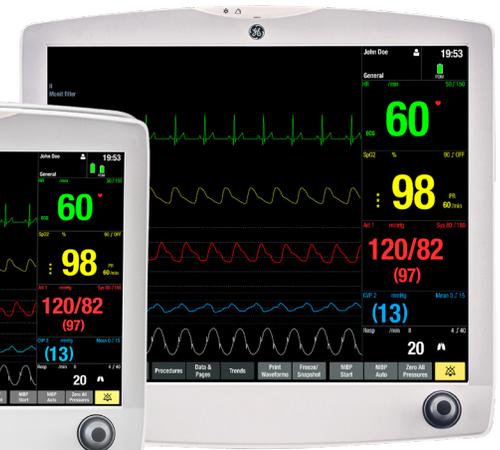
CARESCAPE Canvas 1000 Monitor

CARESCAPE ONE Intra-Hospital Transport Monitor

CARESCAPE B450 Monitor

CARESCAPE B650 Monitor

CARESCAPE B850 Monitor

CARESCAPE Canvas™ Monitor

Clinical excellence by design

A shortage of qualified staff and ever higher patient-to-caregiver ratios require a patient monitor design that offers confidence in demanding perioperative cases. Patient information can be quickly updated with a modular approach to parameters that fits seamlessly into your perioperative workflow.

- Intuitive user interface, crisp and clear waveforms and numerical values
- Highly responsive state-of-the art touchscreen
- Excellent durability and easy-to-clean design for infection control
- Improved visibility to critical moments
- A FlexAcuity™ solution with modular parameters for any care area

Cutting-edge parameters and algorithms

Insights to individualize care

Our GE HealthCare monitoring parameters are built with proven algorithms for accurate data, delivering real-time decision support during and after surgery. Continuously updated, cutting-edge parameters and algorithms are built on over half of a century of excellence in patient monitoring.

GE HealthCare monitoring solutions are embedded with proven technologies for clinical performance such as:

The EK-Pro arrhythmia algorithm

Monitors, processes and analyzes four independent, simultaneous leads, detecting arrhythmias and other cardiac events that might otherwise go unnoticed.

The Adequacy of Anesthesia concept (AoA)

Entropy™ and NMT measurements may help clinicians enhance patient care, minimize drug use, and optimize patient throughput.

CARESCAPE respiratory modules

Provide comprehensive, holistic views of a patient's respiratory status and helps to personalize care and improve clinical outcomes.

Cerebral oximetry

CARESCAPE rSO2 INVOS® technology from Medtronic can detect changes in the patient's oxygenation condition quicker than traditional peripheral measurements, such as SpO_2.[1]

1. Cerebral oximetry is frequently a "first alert" indicator of adverse outcomes; Edwin G. Avery, IV, M.D., C.P.I., Chief, Division of Cardiothoracic Anesthesia, Vice Chairman, Director of Research, University Hospitals Case Medical Center, Associate Professor of Anesthesiology, Case Western Reserve University School of Medicine, Cleveland, OH, © 2016 Medtronic, 800.635.5267.

Tailored service to fit your needs and budget

The Carestation 750 machine is designed for ease of service to help minimize downtime and total cost of ownership.

We've simplified planned maintenance and made more than two dozen serviceability improvements, all to reduce service costs significantly. Parts are available quickly and conveniently through our subscription-based online Service Shop.

GE HealthCare experts stand ready to support you with flexible service offerings, from support for your in-house biomedical team to comprehensive service agreements delivered by GE engineers. We'll help you choose a plan that complements your staff's expertise with our engineers, so you can schedule, reliable care throughout the life of your machine.

Consumables and accessories

Every moment in the OR is critical for the patient and clinician. Quality and uptime cannot be compromised, and that is why GE HealthCare offers you a reliable, one-stop solution for compatible supplies and accessories. With an expansive portfolio verified by our engineers, you can rest easy knowing you are using high-quality components that optimize machine performance. This includes a simple, single point of contact for all questions, accessories and service needs with your GE HealthCare equipment.

Education to complement your workflow

GE HealthCare helps tailor education to maximize your anesthesia workstation investment.

▶ Access online training courses for your Carestation 750 system and learn how to maintain the equipment and use advanced features. On-demand videos deliver clinical insights on topics such as ecoFLOW and dilution effect, lung recruitment and spirometry, checkout and calibration, and assembly and disassembly of the breathing system.

References

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3. Environmental Protection Agency. Emissions facts: greenhouse gas emissions from a typical passenger vehicle. Available at: http://www.epa.gov/oms/climate/420f05004.htm#key.

4. Improper ventilation during Anesthesia can cost over $25K/case (3) in post-op lung complications. Fleisher, L. A., & Linde-Zwirble, W. T. (2014). Incidence, outcome, and attributable resource use associated with pulmonary and cardiac complications after major small and large bowel procedures. Perioperative Medicine, 3(7). doi:10.1186/2047-0525-3-7.

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6. Patient injuries from anesthesia gas delivery equipment. Mehta SP, Eisenkraft JB, Posner KL, Domino KB. Anesthesiology 2013; 119: 788-95.

7. The ergonomic inconvenience can cost ORs over $60 per minute due to delays. Source: Optimizing your Operating Room: OR, Why Large, Traditional Hospitals Don't Work. International Journal of Surgery. Girotto, Koltz, Drugas. 2007.

8. Revolutionizing Patient Transport Monitoring, GE HealthCare usability study JB82084XX. The comparative usability study was conducted in a simulation center whereby intubated OR patients were transported to the ICU by transport nurses.

9. SPI portion of Adequacy of Anesthesia concept is not available for sale in USA and has not been cleared or approved by FDA.

10. GE benchmark studies from 2011: GE HealthCare PCV to Tidal Volume Data Collection Test Results. Actual results may vary and are dependent on the patient. DOC0933949/DOC0970424.

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