

# CARESCAPE B450 Monitor

Powerful monitoring  
in a compact design



CARESCAPE ONE



CARESCAPE B450 monitor

The CARESCAPE™ B450 monitor is a compact bedside solution with the flexible power to meet most patient acuties. The device is lightweight and capable of maintaining patient monitoring and data continuity in cases where intra-hospital transport is needed.

## Exceptional clinical excellence

- Using the CARESCAPE ONE monitor or CARESCAPE Patient Data Module, enables consistent hemodynamic and cardiac measurements
- Innovative algorithms aid in accurate diagnoses, including EK-Pro, DINAMAP™ non-invasive blood pressure, and 12 SL diagnostic ECG with direct 2-way MUSE™ ECG database
- Comprehensive respiratory monitoring ranging from standard CO<sub>2</sub> to optional gas exchange and metabolic monitoring
- Extensive alarm controls like Auto View on Alarm which automatically share clinically significant alarms within and across care units, also provide flexibility in setting alarm limits and priorities which may help optimize your workflow and reduce alarm fatigue
- Combination monitoring enables telemetry patients to be monitored directly at the bedside
- Wireless connectivity and integration with the CARESCAPE Gateway enables communications to EMR systems through standard HL7® protocols
- Integrated Citrix® thin client integration enables easy access to labs, X-rays, charting and other data right from the bedside
- Provides a peer-to-peer networking option that allows monitors to communicate and view information from other CARESCAPE monitors

## Protecting long-term investments

- Backwards compatible with many existing GE components
- Remote service through InSite™ ExC provides updates and predictive maintenance
- Structured upgrade programs can lower the total cost of ownership and simplify long-term capital equipment planning

## Powerful performance in a compact design

- Dedicated software packages for Operating room, Post Anesthesia care, Intensive care, Neonatal care and Emergency care areas make monitor configurations easier
- Pages and Profiles functionality provides clinicians the flexibility to easily optimize monitor settings to their patient



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Software version 3, build 3.1

## Technical specifications

### Display

|                  |                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size             | 12 in (diagonal)                                                                                                                                                                                                         |
| Type             | Active matrix color TFT LCD                                                                                                                                                                                              |
| Resolution       | 1024 x 768 pixels (XGA)                                                                                                                                                                                                  |
| Number of traces | 6 (max)                                                                                                                                                                                                                  |
| Sweep speed      | 0.625, 6.25, 12.5, 25, 50 mm/sec                                                                                                                                                                                         |
| Configuration    | Automatic configuration according to parameter availability. Manual configuration with up to 8 user-configurable profiles for care-specific configurations, and up to 6 user-configurable display pages for each profile |

### Controls

|                                 |                                                                                                                                                                                                      |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Touch screen                    | Resistive technology                                                                                                                                                                                 |
| Power on                        | Front of unit                                                                                                                                                                                        |
| Remote control (USB) (Optional) | 11 keys to facilitate non touch use: Alarm Setup, Monitor Setup, Procedures, Trends, Data & Pages, Print Waveforms, Freeze/ Snapshot, NIBP Auto, NIBP Start/ Stop, Parameters and Zero ALL Pressures |

### Parameters and modules

| Parameters       | CARESCAPE ONE                                 |
|------------------|-----------------------------------------------|
| ECG              | 3, 5, 6 and 10 leadwires                      |
| SpO <sub>2</sub> | GE TruSignal, Nellcor OxiMax, Masimo SET      |
| NIBP             | DINAMAP SuperSTAT algorithm                   |
| InvBP            | 2                                             |
| Temp             | 2                                             |
| CO <sub>2</sub>  | Respironics LoFlo™ Sidestream CO <sub>2</sub> |

| Parameters       | CARESCAPE Patient Data Module (PDM) |
|------------------|-------------------------------------|
| ECG              | 3, 5, 6 and 10 leadwires            |
| SpO <sub>2</sub> | Masimo SET®, Nellcor OxiMax®        |
| NIBP             | DINAMAP SuperSTAT algorithm         |
| InvBP            | 0 or 4                              |
| Temp             | 2, Optional with C.O.               |
| Cardiac output   | Optional with temperature           |

CARESCAPE Patient Data Module and CARESCAPE ONE are ordered separately.

| Parameters                                                              | E-Modules <sup>1</sup>                       |
|-------------------------------------------------------------------------|----------------------------------------------|
| Multi parameter modules                                                 |                                              |
| InvBP & Temp                                                            | E-PT                                         |
| SvO <sub>2</sub> & C.O.                                                 | E-COP, E-COPsv                               |
| Single parameter modules                                                |                                              |
| InvBP                                                                   | E-PP                                         |
| SpO <sub>2</sub>                                                        | E-NSATX, E-MASIMO                            |
| NMT                                                                     | E-NMT                                        |
| CCO                                                                     | E-PiCCO                                      |
| EEG                                                                     | E-EEGX                                       |
| BIS                                                                     | E-BIS                                        |
| Entropy™                                                                | E-ENTROPY                                    |
| Respiratory                                                             |                                              |
| Sidestream CO <sub>2</sub>                                              | E-miniC                                      |
| Sidestream CO <sub>2</sub> & O <sub>2</sub>                             | E-sCO, E-sCOV                                |
| Sidestream CO <sub>2</sub> , O <sub>2</sub> , Agents & N <sub>2</sub> O | E-sCAiO <sup>2</sup> , E-sCAiOV <sup>2</sup> |
| Patient Spirometry                                                      | E-sCOV <sup>2</sup> , E-sCAiOV <sup>2</sup>  |
| Gas exchange or metabolics                                              | E-sCOVX, E-sCAiOVX                           |

Parameter modules are ordered separately.

<sup>1</sup> Acronyms for the parameters measured are as follows: P=invasive pressure; R=respiration rate, S=SpO<sub>2</sub>; T=temperature; N=NIBP; C=CO<sub>2</sub> and N<sub>2</sub>O; Ai=anesthetic agents and nitrous oxide with agent identification; O=O<sub>2</sub>; V=Patient Spirometry; s=single width.

<sup>2</sup> Displayed data (including but not limited to TV, MV, RR, Raw and N<sub>2</sub>O) trends and alarms may vary depending on the host device. Specifications listed represent the capabilities of the modules. Always check the host device's User Manual for additional information.

### Software options

|                        |                                                                                        |
|------------------------|----------------------------------------------------------------------------------------|
| Main software          | Care-area specific software packages to optimize workflows: OR, PACU, ICU, NICU and ED |
| Other software options | Extended software options specific to each main software                               |

## Networking

|                                           |                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Compatibility                             | CARESCAPE Network,<br>CARESCAPE Central Station,<br>CARESCAPE RAD (remote alarm<br>device)                                    |
| Features                                  | Centralized viewing and remote<br>alarm management with bed-to-<br>bed viewing and Auto View on<br>Alarm (AVOA) functionality |
| Network type                              | LAN, WLAN (optional)                                                                                                          |
| WLAN communication<br>protocol (optional) | IEEE 802.11a/b/g/n                                                                                                            |
| Operating frequency                       | 2.4 GHz and 5 GHz                                                                                                             |
| Data rate                                 | 1 - 54 Mbps                                                                                                                   |

## I/O Connectors

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| Ethernet                 | 3 RJ45 for IX, MC, Unity Network<br>ID                                 |
| Serial Port              | Available via USB converter                                            |
| Slave/independent screen | 1 DisplayPort                                                          |
| USB Port                 | 4 USB 2.0                                                              |
| ePort                    | 1 E-port                                                               |
| Remote-On                | Remote power on control<br>input for anesthesia machine<br>integration |

## Paper recorder (optional, in-built)

|                                 |                                                    |
|---------------------------------|----------------------------------------------------|
| Method                          | Thermal dot array                                  |
| Horizontal resolution           | 24 dots/mm (600 dpi)<br>@ 25 mm/sec                |
| Vertical resolution             | 8 dots/mm (200 dpi)                                |
| Number of recorder<br>waveforms | 4                                                  |
| Paper width                     | 50 mm (2 in)                                       |
| Paper speed                     | 1, 5, 10, 12.5, 25, and<br>50mm/sec. ( $\pm 2\%$ ) |

## Mounting

|                            |
|----------------------------|
| GCX compatible             |
| FM Quick-Mount compatible  |
| Integrated carrying handle |

## Performance specifications

### Alarms

|                            |                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------|
| Categories                 | Patient status and system status                                                       |
| Priority                   | High, Medium, Low, Escalating<br>and Informational In accordance<br>with IEC 60601-1-8 |
| Notification               | Audible and visual                                                                     |
| Audio pause, active alarms | 2 min                                                                                  |
| Audio pause, all alarms    | 2 or 5 min                                                                             |
| Trend                      |                                                                                        |
| 1 min resolution           | 72h                                                                                    |
| 10 s resolution            | 30min                                                                                  |
| 2 s resolution             | 24h                                                                                    |
| 1 s resolution             | 24h                                                                                    |
| Snapshot                   |                                                                                        |
| 15 s Waveform              | 400 snapshots                                                                          |
| ST                         | 10 snapshots                                                                           |
| Events                     | 999 events                                                                             |

## Power specifications

### Power supply

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Universal input<br>voltage range | 100 to 240 Vac $\pm 10\%$ , 50/60 Hz |
| Power consumption                | < 200 VA                             |
| Protection class                 | Class I                              |
| Grounding                        | Hospital grade                       |
| Cooling                          | Natural convection – no fans         |

### Battery (optional)

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Type                | Exchangeable Lithium-Ion                                |
| Number of batteries | 1 or 2                                                  |
| Voltage             | 10.8 V (nominal)                                        |
| Capacity            | 3.8 Ah per battery, 7.6 Ah with 2<br>batteries (min)    |
| Charge time         | 2 to 3 hours per battery,<br>depending on configuration |
| Run time            | 3.5 hours, depending on<br>configuration                |
| Battery life        | 300 cycles to 60% capacity                              |



## Environmental specifications

### Operating conditions

|                    |                            |
|--------------------|----------------------------|
| Temperature        | 10 to 40°C (50 to 104°F)   |
| Operating humidity | 10 to 90% (non-condensing) |

### Storage conditions

|                   |                            |
|-------------------|----------------------------|
| Temperature       | -20 to 60°C (-4 to 140°F)  |
| Relative humidity | 10 to 90% (non-condensing) |

## Physical specifications

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Dimensions (H x W x D) | 29 x 30 x 16 cm<br>(11.4 x 11.9 x 6.2 in)                         |
| Weight                 | 5.0 kg (11.0 lb) with all options<br>and battery, without modules |

## Imagination at work

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](http://www.gehealthcare.com/promotional-locations).

Data subject to change.

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