



CARESCAPE Monitor B450

For smart transport and bedside monitoring

The CARESCAPE* Monitor B450 is an important component of the CARESCAPE monitoring platform. It is a lightweight bedside monitor that is robust enough to meet changing patient acuity and care area needs as well as capable of maintaining all bedside monitoring functions during intra-hospital transport.

Exceptional clinical excellence

- Enables you to use a wide parameter set with its compatibility with the CARESCAPE Patient Data Module (PDM), Patient Side Module (E-PSM) as well as single-width E-modules
- Consistent, innovative algorithms aid in accurate diagnoses, including Datex-Ohmeda sidestream CO₂, 12SL* diagnostic ECG with direct two-way MUSE* ECG communication, DINAMAP* SuperSTAT NIBP, Entropy*, BIS**, and your choice of GE TruTrak*, Masimo SET** or Nellcor** OxiMax** SpO₂
- Exceptional alarm functionality enables remote bed-to-bed viewing (Auto View on Alarms), quick adjustment to all parameter limits, defining parameter limit range(s), preventing specific alarms from being turned off and setting adjustments to meet patient changing conditions may help optimize your workflow and reduce alarm fatigue
- Dedicated software and parameters for the OR, PACU, Critical Care, Emergency Care and NICU care areas make it easier to configure to your work patterns
- Remote service through InSite* ExC provides updates and predictive maintenance to assist your biomed servicing capabilities

Lightweight, intuitive design and simplified servicing

- Especially developed for the intra-hospital transport of patients, with the capability to attach and detach GE hemodynamic modules, E-PSM(P) or CARESCAPE Patient Data Module
- Designed for flexible acuity care settings, the Pages and Profiles functionality may increase workflow efficiency by allowing you to configure the monitor to unit standards and patient populations

Dependable data continuity and integration

- Provides continuous hemodynamic measurement during intra-hospital transport and also transfers trend data with the CARESCAPE Patient Data Module
- Wireless connectivity with GE's CARESCAPE Gateway enables communications to EMR systems through standard HL7 protocol
- Eases workflow and enables patient mobility with telemetry and combination monitoring capability
- Provides a peer-to-peer networking option that allows monitors to communicate and view information from other GE CARESCAPE monitors
- Supports networking with other GE Healthcare products including CARESCAPE CIC Pro, iCentral, MUSE* ECG database, Unity Network* ID and other products that run on the CARESCAPE Network



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	Standard
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	Patient Side Module (E-PSM, E-PSMP)	CARESCAPE Patient Data Module (PDM)
ECG	3, 5, 6 and 10 leadwires	3, 5, 6 and 10 leadwires
SpO ₂	GE SpO ₂	Masimo SET, Nellcor OxiMax
NIBP	GE	GE DINAMAP SuperSTAT algorithm
InvBP	0 or 2	0 or 4
Temp	2	2, Optional with C.O.
Cardiac output	-	Optional with temperature

Parameters	E-Modules ²
Multi parameter modules	
InvBP & Temp	E-P ¹ , E-PP ¹ , E-PT
SvO ₂ & C.O.	E-COP, E-COPsv
Single parameter modules	
SpO ₂	E-NSATX, E-MASIMO
NMT	E-NMT
CCO	E-PiCCO
EEG	E-EEG
BIS	E-BIS
Entropy*	E-ENTROPY
Respiratory modules	
Sidestream CO ₂	E-miniC
Sidestream CO ₂ & O ₂	E-sCO, E-sCOV
Sidestream CO ₂ , O ₂ , Agents & N ₂ O	E-sCAiO ³ , E-sCAiOV ³
Patient Spirometry	E-sCOV ³ , E-sCAiOV ³

Parameter modules are ordered separately.

¹ Module measures invasive pressure only.

² Acronyms for the parameters measured are as follows: P=invasive pressure; R=respiration rate, E=ECG; S=SpO₂; T=temperature; N=NIBP; C=CO₂ and N₂O; Ai=anesthetic agents and nitrous oxide with agent identification; O=O₂; V=Patient Spirometry; s=single width.

³ Displayed data (including but not limited to TV, MV, RR, Raw and N₂O) 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	ESP v2 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, S/5 Network, MUSE ECG database, Unity Network ID
Features	Centralized viewing and remote alarm management with bed-to-bed viewing and AVOA functionality
Network type	LAN, WLAN (optional)
WLAN communication protocol (optional)	IEEE 802.11a/b/g
Operating frequency	2.4 GHz and 5 GHz
Data rate	1 - 54 Mbps

I/O Connectors

Ethernet	3 RJ45 for IX, MC, Unity Network ID
Serial Port	Available via USB converter
Slave/independent screen	1 DVI-D out
USB Port	2 USB 2.0
ePort	1 E-port
Analog output	Proprietary analog output connector on CARESCAPE Patient Data Module. Analog output connector (Mini-DIN 7) on the monitor frame is for Patient Side Module (PSM) use only.
Remote-On	Remote power on control input for anesthesia machine integration

Paper recorder (optional, in-built)

Method	Thermal dot array
Horizontal resolution	24 dots/mm (600 dpi) @ 25 mm/sec
Vertical resolution	8 dots/mm (200 dpi)
Number of recorder waveforms	4
Paper width	50 mm (2 in)
Paper speed	1, 5, 10, 12.5, 25, and 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 and Informational In accordance 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
Snapshot	
15 s Waveform	400 snapshots
ST	10 snapshots
Events	999 events

Power specifications

Power supply

Universal input 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 batteries (min)
Charge time	2 to 3 hours per battery, depending on configuration
Run time	3.5 hours, depending on configuration
Battery life	300 cycles to 60% capacity

Environmental conditions

Operating conditions

Temperature	10 to 35°C (50 to 95°F)
Relative 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 (11.4 x 11.9 x 6.2 in)
Weight	5.0 kg (11.0 lb) with all options and battery, without modules

Warranty

One year.

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GE imagination at work

For accessory information, please refer to CARESCAPE Modular Monitors Supplies and Accessories document.

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