

# CARESCAPE Central Station

Version v2.1

Powerful insight. Streamlined design.

The CARESCAPE™ Central Station transforms an ordinary central monitoring station into a clinician-centric workstation designed to help increase workflow productivity and optimize workspace. Integration with other medical devices and systems provides access to historical data as the patient moves within a care area, or between care areas, allowing clinicians to perform in-depth analyses at a central location. By collecting comprehensive patient data, providing convenient access for review and simplifying case reporting, the CARESCAPE Central Station offers exceptional clinical decision support.

## Features

### Enables fast, confident decision making

- Ability to remotely manage patient monitors, including viewing active or historic data, and remotely configuring settings on the monitor
- Full disclosure and ST Review records for up to six days (144 hours) and available post-discharge<sup>1</sup>
- ST Review trends ST-segment changes over time, prints 12SL reports, or sends them to MUSE™ cardiology information system<sup>1</sup>
- Wide screen (16:9) display enables more waveform information than a 4:3 screen
- Access intranet content with built-in Web browser and Citrix® hosted applications
- EMR connectivity through HL7 standard 2.3, 2.4, & 2.6 enables electronic transfer of patient reports
- MARSTM™ ambulatory ECG review station by GE can request Full Disclosure data from the CARESCAPE Central Station, enabling clinicians to perform retrospective analyses
- Depending on monitoring device acquisition, can provide up to 72 hours of trended data
- Single point of receiving and distribution for patient data gathered from GE bedside monitors, ApexPro™ Telemetry System and other compatible devices. (See User Manual for a complete list)



All-in-one system option



Standard desktop system option

### Adaptable and flexible

- Exceptional alarm configurability to help reduce alarm fatigue
- Configuration options help optimize workspace as well as workflow efficiency

### Reliable and easy serviceability

- Solid state disk drive, fan-less design and embedded speakers help improve overall system reliability and reduce cable clutter
- Built on the MP200 platform engineered with redundancy and fault tolerance
- InSite™ ExC compatibility, allowing GE Healthcare's trained personnel to assist remotely in diagnosing and repairing your GE devices<sup>2</sup>
- Webmin – on-site remote access right from the biomedical engineer's workstation to CARESCAPE Network devices

<sup>1</sup> ST Review available with CARESCAPE modular monitors (B850, B650, B450) only.

<sup>2</sup> May not be available in all regions. Please inquire with your sales representative.

## Technical specifications

### Processor

Main processor	1.6 GHz dual-core processor (min)
Main memory	4 GB DDR3 SDRAM (min)
Video/graphic outputs	Color video output, DisplayPort 1.1a, Output resolution 1920 x 1080 @ 60Hz, Aspect ratio 16:9
Audio output	Dual internal speakers
Connections/Interfaces	(2) DisplayPort output, (2) network (Ethernet) connection/interfaces, (6) USB 2.0 (Type A) connection/interfaces, and power socket with fuse and switch
Storage	256 GB SSD flash drive (min) for operating system, application, and Full Disclosure data
Operating system	Microsoft® Windows® Embedded Standard 7 (WES7)
Software update	Via network interface or USB

### Display requirements

Recommended display size – 54.61 cm (21.5 in)

Native display resolution – 1920 x 1080 @ 60Hz

Display interfaces:

- Primary display (DisplayPort 1.1a)
- Secondary display (DisplayPort 1.1a)

### GE stand-alone display specifications

Display size	54.61 cm (21.5 in) medical grade color LCD flat panel display
Resolution	1920 x 1080 @ 60Hz
Display interfaced	DisplayPort 1.1a
Controls	On/off and brightness
Power requirements	Universal input voltage/frequency 100 to 250 VAC, 50/60 Hz

## Performance specifications

**ADT picklist** Retrieval of ADT information from a hospital EHR/HIS system via the CARESCAPE Gateway or Aware™ Gateway in a query picklist format

### Alarms

Audio pause	Option to silence alarms per patient or all active alarms on the central station (configuration dependent)
Display of alarm	Alarm information located in patient title bar, waveform information window, parameter box, and alarm display buttons
Notification	Audible and visual
Parameter alarm limits	Configurable monitoring device alarm limits for select parameters
Patient alarms	3 configurable levels – (Low, Medium, High) complies with IEC standard

**Citrix and Web** Capability to access Web-based connectivity applications such as MUSE Web via an embedded browser; access to Citrix servers via a built-in Citrix XenApp client. (See the User Manual's Compatible Devices section for full list.)

**Controls** USB keyboard and USB optical mouse, optional touch screen, optional MultiKM and optional video splitter kits

### Display format

Single viewer	View up to eight waveforms per patient
Multi-viewer	Select up to four waveforms per patient. 1 to 16 individual patient slots in standard display format

**Display Information** Access to patient demographic information; review arrhythmia, ECG samples, RR-Apnea, caliper measurement and ST, SPO<sub>2</sub>, SPO<sub>2</sub> rate, respiration rate limit violation events; parameter data in graphic and numeric trends; Full Disclosure data in strip view, page view with zoom, or in calipers. Parameter numerics and waveforms available in a live view presentation

**Displayed wavelenghts** Up to 15 seconds of waveform (dependent on configuration)

**Electronic calipers** Measure horizontal (time) and vertical (voltage) distances along historical waveform data. Option to store the caliper measurements for later review.

## Performance specifications continued

<b>Event review</b>	Arrhythmia, ECG samples, RR-Apnea, caliper measurement limit violation events for ST, SPO <sub>2</sub> , SPO <sub>2</sub> rate and respiration rate; up to 2,000 per patient and monitoring session (dependent on configuration). Filter by type, review state and/or severity. Annotate and select events that need to be part of the patient record. Capability to transfer the selected events to EMR. Ability to select patient's historical events from either Full Disclosure, bedside monitor or Patient Data Server (PDS)
<b>Event review storage option available</b>	Up to 2,000 events per patient monitoring session
<b>Full Disclosure</b>	
Page	View patient waveform data. Configurable to view up to five different waveforms per patient, including ECG, IBP, SpO <sub>2</sub> and respiratory rate waveforms
Strip	View patient waveform data. View up to eight waveforms per patient, including ECG, IBP, SpO <sub>2</sub> and respiration rate; and additional respiratory waveforms (pressure, flow and CO <sub>2</sub> )
<b>Full Disclosure storage</b>	High fidelity waveform storage for ECG (up to 12 leads), SPO <sub>2</sub> , RR, CO <sub>2</sub> , Pressure, Flow, and Invasive Pressures. Storage duration options include 24, 48, 72, 96, 144 hours.
<b>Mirror display</b>	Shares the same patient/bed list as the primary central station. Supports audible alarms and printing
<b>Monitor control</b>	Remote control of select admit/discharge settings, parameter priority, alarm and patient monitor settings
<b>MultiKM</b>	Ability to use 1 mouse and 1 keyboard across up to 8 displays
<b>Network connectivity</b>	CARESCAPE Network MC network and CARESCAPE Network IX network

## Performance specifications continued

<b>Real-time trend graph</b>	User defined one-hour graphic trend, up to two parameter numerics, for up to 16 patients
<b>Recorder (optional)</b>	50 mm (2 in.) external direct digital writer, laser printer
<b>Remote view</b>	Video output can be split to support up to four remote view ports not exceeding 304.8 m (1000 ft.). Non-interactive, no patient admitting or discharge, no modification of alarm limits. Some remote displays provide audio alarm notification. For more information, consult qualified personnel regarding device/system configuration
<b>Secondary display</b>	Capability to use a second display for review of patient information including arrhythmia histories, graphic trends, tabular vital signs, Full Disclosure waveforms, parameter numerics and ST Review. Second screen allows for multiple display clients to be viewed at one time based on your need
<b>Time focus</b>	When viewing an area of interest for one type of patient data, choosing another type of patient data will display for that same time focus
<b>Trend duration and interval</b>	
Graphic trend time scales	1 min, 15 min, 30 min, 1 hr, 2 hr, 4 hr, 8 hr, 12 hr, 24 hr
Graphic trend views	Up to 12 user-defined trend groups for customized trend views
Numeric trend time scales	1 min, 5 min, 15 min, 30 min, 60 min
Numeric trend views	12 user-defined sort modes for parameters. Episodic parameters displayed only at time of measurement
Graphic and numeric trend time	Up to 72 hours, depending on device configuration
<b>User favorites</b>	Configurable favorite buttons that allow (screen shortcuts) quick access to often used screen formats



## Power specifications

---

The below specifications pertain to the all-in-one and standard desktop systems:

Voltage	100 to 240 VAC (nominal)
Frequency	50 to 60 Hz
Current	1 A (max)
Power	100 W (342 BTU/hr) (max)
Heat dissipation	342 BTU/hr (max), 171 BTU/hr (typical)

## Environmental specifications

---

Operating temperature	0°C to 40°C (32°F to 104°F)
Transport and storage temperature	-30°C to 70°C (-22°F to 158°F)
Operating relative humidity	5% to 95% non-condensing
Storage relative humidity	5% to 95% non-condensing
Storage and shipping barometric pressures	500 hPa to 1075 hPa
Cooling	Convection cooling with heat sink
Mounting	Vertical mount with stand; wall mount (fixed flush mount and tilt and swivel flush mount)

## 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.

© 2018 General Electric Company.

GE, the GE Monogram, imagination at work, CARESCAPE, MARS, ApexPro, 12SL, MUSE, InSite and Aware are trademarks of General Electric Company.

Citrix is a registered trademark of Citrix Systems, Inc. Microsoft and Windows are registered trademarks of Microsoft Corporation. Intel and Core are registered trademarks of Intel Corporation. All other third-party trademarks are the property of their respective owners.

Reproduction in any form is forbidden without prior written permission from GE. Nothing in this material should be used to diagnose or treat any disease or condition. Readers must consult a healthcare professional.

CARESCAPE Central Station MAI700 (integrated system)  
CARESCAPE Central Station MAS700 (desktop system)

DOC1810553 rev3 6/18

## Physical specifications

---

### All-in-one system

Dimensions (H x W x D)	40.0 x 55.5 x 28.0 cm (15.75 x 21.85 x 11.02 in) includes stand
Weight	12 kg (26.5 lb)

### Standalone processing unit (CPU)

Dimensions (H x W x D)	38.5 x 34.0 cm x 28.0 cm (15.16 x 13.38 x 11.02 in) includes stand
Weight	8 kg (17.6 lbs)

### Standalone touchscreen display

Dimensions (H x W x D)	40.0 x 55.5 x 28.0 cm (15.75 x 21.85 x 11.02 in) includes stand
Weight	12 kg (26.5 lbs)

## Certifications

---

UL 60601-1  
CAN/CSA-C22.2 No. 601.1-M90  
CAN/CSA-C22.2 No. 60601-1  
IEC/EN 60601-1  
IEC/EN 60601-1-1  
IEC/EN 60601-1-2  
IEC/EN 60601-1-4  
IEC/EN 60601-1-6  
IEC/EN 60601-1-8  
IEC/EN 60601-2-27  
IEC/EN 60601-2-49  
IEC/EN 62366  
IEC/EN 62304  
ISO/EN 80601-2-61  
ISO/EN 15223-1  
ISO/EN 9919  
AAMI/ANSI EC13  
ANSI/AAMI ES60601-1  
CE marked to the Medical Devices Directive 93/42/EEC