CIC Pro Clinical Information Center

Uniting clinical intelligence across the enterprise

The CIC Pro clinical information center integrates real-time and historical data from multiple monitoring sources and presents it to caregivers in the context of their mission to reduce errors, enhance workflow productivity and drive clinical excellence.

As a viewing station, the CIC Pro information center presents real-time waveforms and vital information for any patient connected to the CARESCAPE™ Network real-time monitoring network. As a monitoring station, it also includes the ability to admit, discharge and manage patient alarms. For a comprehensive review of the patient's condition, the CIC Pro information center serves as a workstation that enables clinicians to see historical events, trends and full disclosure for patients connected to the network.

The CIC Pro information center is a flexible component of your monitoring solution that enhances quality decision-making and clinical productivity by providing a single reliable source of patient information when and where it is needed.

Clinical information access

- View real-time data, review historical information, print, visual and audible alarms for patients connected to the CARESCAPE Network

- Real-time trends offer a one-hour review of up to two parameters in the multi-patient viewer, including atrial fibrillation trending

- Access hospital wide web-based applications which might include radiology, PACS and lab results via Citrix and web connectivity*

* Displayed images should not be used for diagnostic decisions.

Efficient patient monitoring and management

- An optional second display offers clinicians the ability to admit, discharge and manage patient alarms without interrupting live multiple patient monitoring

- Caregivers can search for a patient's demographic information via access to the hospital information system as a convenient way of admitting the patient

- Caregivers or monitor technicians can use one mouse and keyboard across several displays for fast, seamless navigation and reduced desk clutter

Comprehensive patient history review

- Review up to nine recorded waveforms of full disclosure and comprehensive parameter metrics for all monitored patients for up to 72 hours

- Sort events by time and by type with intuitive event management

- Graphic trends include the ability to display up to 12 different parameters presented in up to 12 standard or user-defined groupings

- Graphical event summary displays the type and number of events in a user-selected time range

- Save specific screen configurations as "favorites" for one-click access

- Full disclosure page review offers the ability to display up to five user-identified waveforms including ECG, respirations, cardiac (BP) and SpO_2 and the ability to print up to eight user-defined waveforms

- Patient Data Server (PDS) button allows displaying events from PDS or bedside monitor for individual patient review

Processor (CPU) specifications	CIC Pro v4.1 & v5 software upgrades only	MP100D desktop	MP100R rack-mount
Main processor	933 MHz Mobile Pentium III processor (min)	1.2 GHz Mobile CoreDuo® processor (min)	1.2 GHz Mobile CoreDuo® processor (min)
Main memory	512k SDRAM (min)	1 GB DDR2 SDRAM (min)	1 GB DDR2 SDRAM (min)
Video/graphics capability	Two DVI-I (VGA or digital) video outputs	One DVI-I (VGA or digital) and one DVI-D (digital only) video outputs	One DVI-I (VGA or digital) and one DVI-D (digital only) video outputs
Storage	1 GB Compact Flash (min) 40 GB IDE Hard Drive (min)	8 GB SATA Solid-State Drive (min) 120 GB SATA-II Hard Drive (min)	8 GB SATA Solid-State Drive (min) 120 GB SATA-II Hard Drive (min)
Interfaces	(2) 10/100 Ethernet Connectors (4) USB 2.0 ports (keyboard, mouse, touch screens, printer) (2) RS-232 Serial ports	(2) 10/100 Ethernet Connectors (1 currently used) (1) 10/100/1000 Ethernet Connector (6) USB 2.0 ports (keyboard, mouse, touch screens, printer) (2) RS-232 Serial ports	(2) 10/100 Ethernet Connectors (1 currently used) (1) 10/100/1000 Ethernet Connector (6) USB 2.0 ports (keyboard, mouse, touch screens, printer) (2) RS-232 Serial ports
Software upgrades	Via network	Via network	Via network
Software reloading	Via network	Via USB 2.0	Via USB 2.0
Audio output	Manufacturer supplied speakers required (Dual-redundant internal speakers provided)	Manufacturer supplied speakers required (Dual-redundant internal speakers provided)	Manufacturer supplied speakers required (Dual-redundant internal speakers provided)
Operating system	Microsoft Windows XP embedded with Service Pack 2	Microsoft Windows XP embedded with Service Pack 2	Microsoft Windows XP embedded with Service Pack 2
Environmental specifications (CPU)			
Operating temperature	10°C to 35°C (50°F to 95°F)	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
Storage temperature	–20°C to 60°C (–4°F to 140°F)	–40°C to 70°C (–40°F to 158°F)	–40°C to 70°C (–40°F to 158°F)
Operating relative humidity	30% to 75% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing
Storage relative humidity	10% to 85% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing
Cooling	Forced air (redundant variable speed fans)	Forced air (redundant variable speed fans)	Forced air (redundant variable speed fans)
Mounting	Vertical (with optional stand), horizontal desktop, or wall mount (with supplied mount)	Vertical (with optional stand), horizontal desktop, or wall mount (with supplied mount)	19" rack-mount, horizontal desktop, or wall mount (with supplied mount)
Physical specifications (CPU)			
Height	8.0 cm (3.2 in)	8.0 cm (3.2 in)	8.8cm (3.5 in) – excludes rubber feet
Width	41.0 cm (16.2 in)	41.0 cm (16.2 in)	40.0 cm (15.7 in) – excludes rack-mounting flanges 48.3 cm (19.0 in) – includes rack-mounting flanges
Depth	33.0 cm (13.0 in)	33.0 cm (13.0 in)	27.6 cm (10.9 in) – standard flange mounting location
Weight	6.6 kg (14.5 lb)	6.6 kg (14.5 lb)	5.6 kg (12.3 lb)
Power requirements (CPU)			
Voltage	Auto-ranging for 110 to 120 VAC or 200 to 240 VAC ± 10%	100 to 240 VAC	100 to 240 VAC
Current	1. 0 A (max) at 115 VAC, 0.5 A (max) at 200V	1 A (max)	1 A (max)
Frequency	50/60 Hz ± 3 Hz	50 to 60 Hz	50 to 60 Hz
Power	100 W (max), 50 W (typical)	100 W (max), 50 W (typical)	100 W (max), 50 W (typical)

CIC Pro MP100D desktop server

CIC Pro MP100R rack-mount server

General performance specifications

Number of patients	1 to 16 in standard display format, 1 to 17 in "view patient" format
Display format	Select up to four waveforms for a maximum of 16
Displayed wavelengths	Up to 11 seconds of waveform, dependent on configuration choice
Display information	Access to detailed patient information. Arrhythmia and ST histories sortable by type and time. Highly configurable graphic trends, arrhythmia event trend and tabular vital signs. Full disclosure data viewable in strip, calipers and page view with zoom. Parameter numerics and waveforms available in a live view presentation.
Electronic calipers	Measure horizontal (time) and vertical (voltage) distances along historical waveform data
Real-time trend graph	Graphic trend available in up to 16 live waveform windows at once. Graphical trend of the last hour of trend data from up to two parameter numerics.
Graphic trends	Up to 12 in full-screen mode; up to 12 user-defined trend groups for customized trend views. Arrhythmia events and support for AFib trending.
Vital signs	Up to 12 user-defined sort modes for parameters. Episodic parameters displayed only at time of measurement.
Full disclosure page review	View large amounts of full disclosure waveform data at one time. Configurable to view up to 5 different waveforms at once with up to 1 minute per line, variable number of lines based on window height. ECG, IBP, SPO$_2$ and respiration waveforms available in this view.
Event directory	Viewable alongside and time synced with all historical view clients. Sortable by type and time. Provides key information about each event including type, time, severity, and quantity of each event type.
Monitor control	Remote control of select ADT, parameter, alarm and patient monitor settings.
ADT picklist	Retrieval of ADT information from a hospital HIS system via the Aware® Gateway Server in a query picklist format.
Secondary display	Capability to use a second display for review of complete patient information including arrhythmia histories, graphic trends, tabular vital signs, full disclosure waveforms, and parameter numerics. Second screen allows for multiple display clients to be viewed at one time based on user need.
Remote view	Video output from CIC Pro center is split from one to four remote view ports up to 315 m (800 ft.). Non-interactive, no audible alarm, no patient admitting or discharge, no modification of alarm limits. Enabled with video-splitter kit, does not require additional license.
Mirror display	Shares the same patient/bed list as the primary central station. Supports audible alarms and printing. Enabled with multi-viewer mirror license.
Full disclosure storage	12 waveforms and all parameters for 1 hour; 24, 48, 72 hour options available including parameter numeric and alarms
Citrix and web connectivity	Capability to access web-based applications such as MUSE® Web via an embedded browser; access to Citrix servers via a built-in Citrix client.
User favorites (screen shortcuts)	Configurable favorite buttons that allow quick access to often used screen formats.
MultiKM	Ability to use 1 mouse and 1 keyboard across up to 8 displays.
Network connectivity	CARESCAPE Network MC real-time monitoring network; CARESCAPE Network IX hospital enterprise network; Patient Data Server (PDS) connectivity for patient centric trends and histories. Aware Gateway connectivity for patient demographics retrieval.
Controls	USB keyboard and USB optical mouse, optional touch screen, optional MultiKM and optional video splitter kits.
Recorder (optional)	2 inch external direct digital writer, laser printer
PDS/ bedside event options	User ability to select patient's historical events from either the bedside monitor or the PDS (Patient Data Server) as needed.

Alarms

Patient alarms	4 configurable levels: crisis, warning, advisory and message
System alarms	3 levels: warning, advisory and message
Notification	Audible, visual, and history storage (dependent on level), alarm display button to view alarming beds
Display of alarm information	Alarm information located in waveform window, parameter box, and alarm display buttons
Silencing	Current patient alarms silenced for 1 minute
Parameter alarm limits	Configurable monitoring device alarm limits for select parameters.

Display requirements

Display size	Recommended minimum – 19 in
Resolution	Display must support 1280 × 1024 (4:3 Aspect Ratio) @ 60 Hz
Display interfaces	Primary display (VGA or DVI) Secondary display - Upgrades (VGA or DVI) Secondary display - MP100D or MP100R (DVI only)
Touch screen	GE qualified touch screen display

GE CDA19(T) display specifications

Display size	19 in medical grade color LCD flat panel display
Resolution	1280 × 1024 (4:3 Aspect Ratio) @ 60 Hz
Display interfaces	VGA and DVI
Touch screen	Touch (CDA19T) and non-touch (CDA19) versions available
Controls	On/off, brightness, contrast, color, temperature
Power requirements	Universal Input Voltage/Frequency 100 to 250 VAC ± 10%, 50/60 Hz

Power requirements

Auto-ranging	Auto-ranging for 110-120 VAC or 200-240 VAC ±10%; 50/60 Hz ±3 Hz; 1.0 amps @ 115 VAC, 0.5 amps @ 220 VAC
PC power supply output	100 W (max)

Compliance and approvals

UL 60601-1,
CAN/CSA C22.2 No. 601.1,
IEC/EN 60601-1,
IEC/EN 60601-1-2,
IEC/EN 60601-1-4,
CE marked to the Medical Devices Directive 93/42/EEC

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