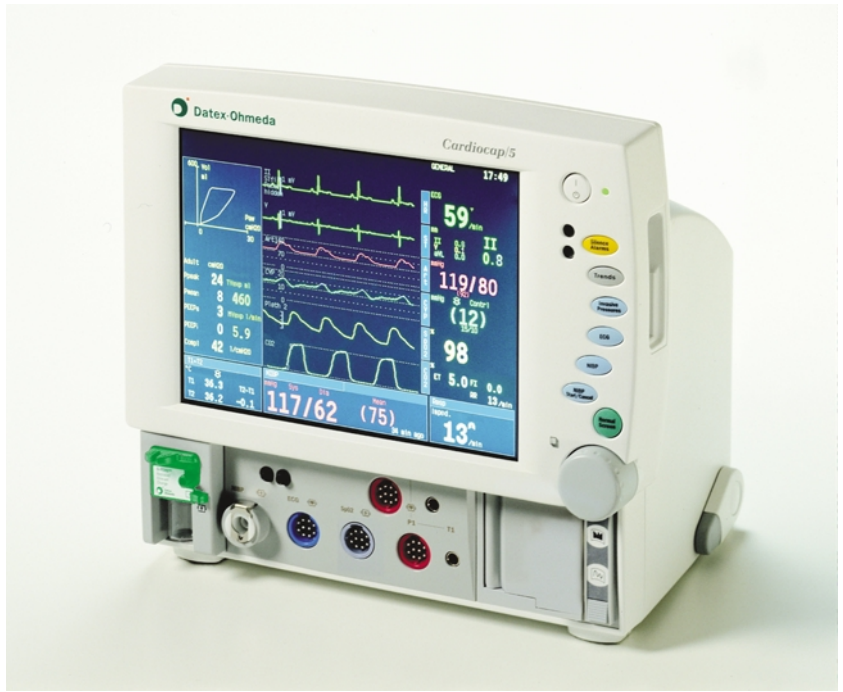
Cardiocap™/5 Critical Care Monitor

Datex-Ohmeda Cardiocap™/5 Compact All-in-one Critical Care Monitor



- Small footprint bedside monitor with large 10.4” active matrix color display
- Proven easy-to-use S/5 user interface
- Shows up to 6 waveforms
- Color-coded, prioritized alarms
- 4 user-configurable modes for care-specific pre-configurations
- Waveform snaphot to store and recall waveform samples for later analysis
- On-line help for menu functions
- 5 or 30-minute minitrends continuously on screen for quick historical view
- 24-hour graphical trends of all parameters
- Adjustable display brightness
- Optional built-in, three-channel thermal array recorder
- Built-in back-up battery to handle sudden power-down situations
- Wall mount, roll stand available for best workplace ergonomics
- Compatible with Datex-Ohmeda S/5 Network and Central for monitor-to-monitor communication and centralized viewing (optional)
- Compatible with Datex-Ohmeda S/5 Arrhythmia Workstation for arrhythmia detection
- Easy to install networking, data continuity and software upgrades for expandability

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Specifications

General

Dimensions (wxdxh)	330x 220x300 mm/13.0x 8.7x11.8"
Weight	<11.2 kg, 24.8 lbs (F-MXG) <10.2 kg, 22.6 lbs (F-MX)
Power	100-240 Vac ±10%, 60/50 Hz
Back-up battery	15 min guaranteed, charging time typically 5 h
Graphical trends	20 min, 1, 2, 4, 6, 10, 12 and 24h
Numerical trends	All parameters, sampled every 5 min and after NIBP measurement
Alarms	Adjustable high and low alarms
Operating temperature	+10...+40 °C (50...104 °F)
Storage temperature	–10...+50 °C (14...122 °F)
Atmospheric pressure	67-106 kPa (500-800 mmHg)
Recorder (optional)	Thermal array, 3-channels, paper width 50 mm
Printers	PCL-5 compatible laser printers
Mounting	Wall mount or pole mounting. A special wall mount and rollstand are available. See the accessory list or catalog to find more information.
Directives	Council Directive 93/42/ EEC:1993 (CE-mark)

Screen

Display size and type	10.4" LCD color
Number of traces	Up to 6
Display resolution	640 x 480

Hemodynamics

ECG

No. of channels	3
No. of leads	3 or 5
ST analysis	3 channels, continuous

Heart rate

Measurement range	30...250 bpm (±5 % or ±5 bpm)
Pacemaker pulse detection	2...500 mV, 0.5...2 ms

Impedance respiration

Measurement method	Measurement uses ECG electrodes to measure the impedance changes by breathing
Measurement range	4...120 breaths/min

Pulse oximetry (SpO_2)

Measurement method	Red and infrared light absorption SpO_2
Measurement range	40...100 %
Measurement accuracy	100...80 %, ±2 digits (±1SD) 80...50 %, ±3 digits (±1SD) 50...40 %, unspecified
Plethysmographic waveform/plethysmogram	

Nellcor Compatible Oxygen Saturation

Measurement range	SpO_2 1%...100 % Pulse rate 30...250 beats per minute (bpm)
Measurement accuracy	Saturation (±1SD): 100...70 %, ±2 digits or ±3 digits depending on the sensor 69...1 %, unspecified Pulse rate: ±3 digits
Plethysmographic waveform/plethysmogram	

Note! Compatible with Mallinckrodt's line of Nellcor SpO_2 sensors.

NIBP (Non-invasive blood pressure)

Measurement range	adult 25...260 mmHg child 25...195 mmHg infant 15...145 mmHg

Invasive blood pressure (InvBP)

Measurement range	-40...320 mmHg (±5 % or ±2 mmHg)
Transducer sensitivity	5 µV/V/mmHg, 5 Vdc, max 20 mA
PCWP (Pulmonary Capillary Wedge Pressure)	

Temperature

Measurement range	10...45 °C / 50...113 °F
Probe type	Datex-Ohmeda only
Measurement accuracy	±0.1 °C (25.0...45.0 °C); ±0.2 °F (77-103°F) ±0.2 °C (10.0...24.9 °C); ±0.4 °F (50-76.8°F)

Airway Gases

Measurement method	Sidestream
Sampling rate	200 ml/min
Measurement range and accuracy	CO_2 0...15 %, ≤0.3 vol %, O_2 0...100 %, ≤2 vol %,
Respiration from CO_2	
Breath detection	1 % change in CO2 level
Measurement range	4...60 breaths/min
Measurement accuracy	±5% or ±5 resp/min whichever is greater

Patient Spirometry™

Measurement range and accuracy:

	Adult	Pediatric
Tidal volume	150...2000 ml (±6 % or 30 ml)	15...300 ml (±6 % or 4 ml)
Minute volume	2...20 l/min ±6 %	0.5...5 l/min ±6 %
Flow	1.5...100 l/min	0.25...25 l/min
Compliance	4...100 ml/cmH_2O	4...100 ml/cmH_2O
Airway resistance	0...40 cmH_2O/ L/s	0...40 cmH_2O/ L/s
Airway pressure	-20...100 cmH_2O (±1 cmH_2O)	-20...100 cmH_2O (±1 cmH_2O)

Intended Purpose

The Datex-Ohmeda Cardiocap/5 (models F-MX, F-MXG) and accessories is indicated for indoor monitoring of hemodynamic (ECG, Impedance respiration, NIBP, Temperature, SpO2 and Invasive pressure), respiratory (CO2, O2, respiration rate) and ventilatory status (airway pressure, volume and flow) of all hospital patients.

Impedance Respiration measurement is indicated for patients ages 3 and up.
Cardiocap/5 is indicated for patients with weight from 5 kg (11 lb.) up.
The monitor is indicated for use by qualified medical personnel only.

Ordering: Parameters

Hemodynamic Model, F-MX:
5-lead ECG, SpO_2, temperature, NIBP and impedance respiration.
Optional built-in measuring parameters:

- N-XP Invasive Pressures (2 pressures, includes 2nd Temp)
- N-XNSAT Nellcor Compatible Oxygen Saturation

Hemodynamic Model with Airway Gas Measurement, F-MXG.
Optional built-in measuring parameters:

- N-XP Invasive Pressures (2 pressures, includes 2nd Temp)
- N-XNSAT Nellcor Compatible Oxygen Saturation
- N-XC Sidestream CO_2
- N-XCO CO_2, and Patient Oxygen™
- N-XV Patient Spirometry (requires N-XCO)

Ordering: Software and Data Management

Software:

S-XCCA01	Software, Critical Care

Data collection and data management options:

N-XREC	Recorder for printouts, 3-channels
N-XNET	Network (connects monitor to Datex-Ohmeda S/S Network and central)
N-XDNET	Data card and Network (Data Continuity) for storing and retrieving continuous physiological data trends

Cardiocap/5 hemodynamic (F-MX) and options (N) for Critical Care

	ECG, 5-lead w/ ST analysis	SpO_2/Pleth	Temp	NIBP	Impedance respiration	InvBP	Nellcor Comp. Oxygen Saturation	Recorder	Networking	Patient Data Continuity
F-MX	■	■	1	■	■					
N-XP			2			2				
N-XNSAT							■			
N-XREC								■		
N-XNET									■	
N-XDNET									■	■

Cardiocap/5 w/ airway gases (F-MXG) and options (N) for Critical Care

	ECG, 5-lead w/ ST analysis	SpO_2/Pleth	Temp	NIBP	Impedance respiration	InvBP	Nellcor Comp. Oxygen Saturation	CO_2	Patient O_2	Patient Spirometry	Recorder	Networking	Patient Data Continuity
F-MXG	■	■	1	■	■								
N-XP			2			2							
N-XNSAT							■						
N-XC								■					
N-XCO								■	■				
N-XV*										■			
N-XREC											■		
N-XNET												■	
N-XDNET												■	■

*) Requires N-XCO

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