

Infinity® Acute Care System Monitoring Solution

Transform your clinical workflow with the Infinity® Acute Care System monitoring solution. This innovative two-screen solution opens the door to a new dimension of patient mobility, flexibility and configurability – providing for the seamless transition of the patient and their information with a single monitor that travels with the patient throughout the care path.



Dräger designed the Infinity Acute Care System monitoring solution to answer the growing need in acute care environments to improve clinical workflow, reduce alarm fatigue, and customize medical devices to better suit hospital protocols and use models.

that acquires data at the bedside and on transport, without having to disconnect the patient as they move from care area to care area. MPod® and MCable® accessories allow the system to scale depending on the patient's changing acuity level.

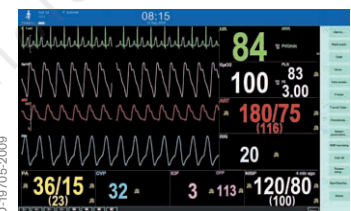
The Infinity Acute Care System monitoring solution consists of the Infinity M540 patient monitor, integrated with the Dräger Infinity C500 or C700 Medical Cockpit®. The M540 is a compact vital signs engine

The Medical Cockpit is the companion bedside workstation that provides a large, clear view of your patient's vital signs, along with a consolidated picture of your patient via information access.

FEATURES

Features available on the Infinity® Medical Cockpit®, when used in conjunction with the Infinity® M540, are as follows:

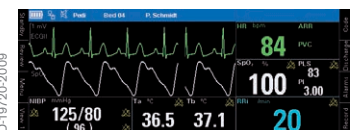
- Lets you monitor vital signs and therapy, view and control alarms, review Web-based diagnostic images, access patient records, and scale up functionality based on patient acuity level – all at one place
- Integrates real-time data, clinical applications, the hospital network and the Internet at the point of care
- Continuously displays vital signs on at least half of the Medical Cockpit® screen while allowing access to other relevant medical information on the split screen
- Allows you to scale your solution up or down depending on your patient's acuity by adding parameters, device connectivity and an optional secondary display



Medical Cockpit® vital signs screen



Medical Cockpit® IT application screen



Infinity® M540 portable monitor screen

PARAMETER INFORMATION MANAGEMENT

Trends

- Provides up to 96 hours of trends on the system, 72 hours on the M540 transport component
 - Trends and events gathered on transport are automatically available at the Cockpit upon arrival
 - Data resolution 30-second sampling
 - Trend tables 1 minute, 5 minute, 10 minute, 15 minute (default), 30 minute, 1 hour display formats
 - Trend graphs 1 hour (default), 2 hour, 4 hour, 8 hour, 12 hour, 1 day, 2 day, 3 day, 4 day display formats
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Alarm History and Events

- Alarm history review allows a retrospective view of significant events in the patient's history
- Event storage provides up to 150 events, 20-second strips, all monitored waveforms*

*only alarming parameter waveforms are available when collected during transport

Views and Profiles

- The user may choose up to 8 pre-configured views, and 8 custom views (with View Editor option) including split-screen views, where at least half of the available screen real estate is dedicated to real-time patient information
 - Views are configured depending on the care area needs and optionally support user-customizable views
 - User can configure up to 4 profiles per patient category, thus adapting alarm limits and parameter settings depending on the patient, the acuity, and the environment. A fifth Dräger profile is available.
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Lung Recruitment Application

- Displaying direct relation between hemodynamic and ventilation data allows clinicians to assess the effect of therapeutic procedures
 - A comprehensive trend page for visualizing information necessary to perform a recruitment maneuver. The page shows the effects on lung mechanics and hemodynamic parameters on a single, integrated display. The Recruitment page displays twelve minutes of data for a maximum of 9 parameters, which are configurable.
 - The page provides cursor buttons to reference separate data points on the trend graphs. The corresponding values are displayed next to the graphs.
 - The current values for the selected trend parameters are always displayed across the top of the screen with arrow symbols to indicate if the parameters have trended up, down or stated the same.
 - A recruitment trend graph report (can be printed) which contains the initial and end cursor values and the Δ value for each parameter.
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Lab Data

Available optionally with Infinity® Gateway without requiring an Infinity® CentralStation.

Calculations

Physiological (hemo/oxy/vent) calculations – optional

- Calculations can be performed using automatically entered values (as a result of algorithm processing), or manually entered values
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Drug dosage calculations

- Customize a drug list of up to 40 drugs
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TECHNICAL DATA

PROCEDURES

Cardiac Output (C.O.)*

Parameter display	Cardiac output (C.O.), blood temperature (Tblood), injectate temperature (Tinj)
Measuring method	Thermodilution
Measurement range	
Cardiac output	0.5 to 20 L/min
Blood temperature	25 °C to 43 °C (77 °F to 109 °F)
Injectate temperature	- 5 °C to + 35 °C (23 °F to 95 °F)
Accuracy	
Cardiac output	± 5 %
Blood temperature	± 0.15 °C (not including probe errors)
Injectate temperature	± 0.25 °C (not including probe errors)
Resolution	
Cardiac output	0.1 L/min
Blood temperature	0.1 °C (0.1 °F)
Injectate temperature	0.1 °C (0.1 °F)
Response time	
Blood temperature	3 sec
Injectate temperature	3 sec

Pulmonary Wedge Pressure (PWP)*

PWP procedure supported with freeze/adjust and save wedge

*Available when connected to Infinity® M540 via Infinity® Hemo2® pod, Hemo4® pod or MPod®-Quad Hemo

Secondary Display

A secondary display is supported that provides a straight video output from the Medical Cockpit®.

The output is as follows, depending whether a C500 or C700 is used:

Resolution	From C500: 17 in (43 cm) display: 1440 x 900 From C700: 20 in (51 cm) display: 1680 x 1050
Maximum supported distance	5 m (16.4 ft)
Cockpit to secondary display	
Maximum display delay	250 ms in reference to the patient signal
Connection to Cockpit	DVI-I connector
Aspect ratio	16:10

CONTINUING TECHNICAL DATA

IT APPLICATIONS

Using the optional IT locked options of Web-enabled tabs and Web-enabled layouts, Dräger allows you to integrate IT applications at the point of care. This can allow you access to Web applications, patient data management systems, Web-based imaging, your hospital intranet, or Dräger IT applications as described below. Check with your Dräger representative for more details on integrating such applications or on the latest available revision support.

Innovian® Solution Suite VF6

The Innovian layout or tab can be configured to display either a single patient or multiple patients. In single patient mode, when you access the Innovian tab the local patient is displayed; if the local patient has not yet been admitted to the Innovian® Solution Suite application, the admit screen is presented.

Infinity® Symphony Suite VF7

This application provides retrospective analysis of patient information stored on the Infinity® CentralStation by making it available virtually anywhere on your hospital network.

RemoteView (Infinity® Gateway PatientWatch) VF6

This application allows you to review real-time or retrospective data from up to four different bedside monitors from the Cockpit. It also enables connection to a hospital information system.

Citrix®

Infinity® Acute Care System monitoring can support IT applications using a Citrix® server.
Application ICA client version 12.3.0.8
Supports IT applications using a Citrix® XenApp server (version 5, 6 and 6.5)

Microsoft® Internet Explorer® Web Browser

You can set up the Internet Explorer® 7 Web browser with service packs as an IT tab that contains several pre-configured Web pages or within a split screen setup.

Export Protocol

Allows you to share data with other Dräger and third-party devices (for example, clinical information and anesthesia record systems and data loggers). Contact your local Dräger representative for more details.

Staff Alert (Alarm Output or Nurse Call)

A staff alert system can be configured with Infinity® Acute Care System monitoring.
See the Infinity® MCable-Nurse Call datasheet for detailed technical information.

Device Connectivity

Ventilation devices:

Dräger Evita® V500, 2.20 and higher
Dräger Evita® V300, 2.31
Dräger Babylog® VN500, 2.20 and higher
Dräger Evita® 2/2D 1.00 and higher
Dräger Evita® 4 1.00 and higher
Dräger Evita® XL 5.00 and higher
Maquet Servo-i 3.2

Anesthesia devices:

Dräger Perseus® A500 (may not be available in all markets)
Dräger Primus®, 4.5
Dräger Primus® IE, 4.5
Dräger Apollo®, 4.5 and higher
Dräger Zeus® IE, 1.03

Ventilation waveforms, parameters, trends, alarms, modes and settings supported (available upon request)

Ventilator waveforms: Paw, Flow, CO₂
Flow/volume and pressure/volume loops

 Edwards Vigilance II SvO₂/CCO

 Edwards Vigileo SvO₂/CCO

SUPPORTED PRINTERS

HP Universal Printing PS (recommended for most users)

HP Color LaserJet	HP Color LaserJet 2500	HP Color LaserJet 2550 Series
HP Color LaserJet 2800 Series	HP Color LaserJet 3700	HP Color LaserJet 4500
HP Color LaserJet 4550	HP Color LaserJet 4600	HP Color LaserJet 4610
HP Color LaserJet 4650	HP Color LaserJet 4700	HP Color LaserJet 4730mfp
HP Color LaserJet 5500	HP Color LaserJet 5550	HP Color LaserJet 5M
HP Color LaserJet 8500	HP Color LaserJet 8550	HP Color LaserJet 9500
HP Color LaserJet 9500 MFP	HP LaserJet 1200	HP LaserJet 1220
HP LaserJet 1300 Series	HP LaserJet 1320 series	HP LaserJet 2100 Series
HP LaserJet 2200	HP LaserJet 2300	HP LaserJet 2410
HP LaserJet 2420	HP LaserJet 2430	HP LaserJet 3015
HP LaserJet 3020 3030	HP LaserJet 3200	HP LaserJet 3300 Series
HP LaserJet 3380	HP LaserJet 4/4M	HP LaserJet 4000 Series
HP LaserJet 4050 Series	HP LaserJet 4100 MFP	HP LaserJet 4100 Series
HP LaserJet 4200 Series	HP LaserJet 4240	HP LaserJet 4250
HP LaserJet 4300 Series	HP LaserJet 4345 MFP	HP LaserJet 4350
HP LaserJet 4 Plus	HP LaserJet	HP LaserJet 4MP
HP LaserJet 4Si Postscript 600 dpi	HP LaserJet 4V/4MV	HP LaserJet 5000 Series
HP LaserJet 5100 Series	HP LaserJet 5M	HP LaserJet 5MP
HP LaserJet 5Si/5Si MX PS	HP LaserJet 5Si Mopier PS	HP LaserJet 6P/6MP – PostScript
HP LaserJet 8000 Series	HP LaserJet 8100 Series	HP LaserJet 8150 Series
HP LaserJet 9000 MFP	HP LaserJet 9000 Series	HP LaserJet 9040
HP LaserJet 9040 9050 MFP	HP LaserJet 9050	
HP LaserJet 9055 9065 MFP		
HP Mopier 240	HP Mopier 320	Lexmark T520 PS
Lexmark T522 PS		

System operating power

Infinity® Medical Cockpit® (C500 or C700), M540, M500, PS250 Comm Hub or Infinity® P2500 running with Cockpit display power on	150 watts on average
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CONTINUING TECHNICAL DATA

INFINITY® P2500

The Infinity® P2500 provides networking and power to the Infinity® Acute Care System for monitoring, connects it to the Infinity® Network, and provides an optional connection to the hospital's alarm output (staff alert) system.

Physical Specifications

Dimensions (H x W x D)	36 x 22 x 14.9 cm (14.2 x 8.75 x 5.9 in)
Weight	10 kg (22 lbs)
Cooling	Convection (requires the P2500 to be mounted)
Connections	<ul style="list-style-type: none"> - Export Protocol (RS232) - Alarm output (Nurse Call) - Two interchangeable system cable connectors; one for the M540, one for the Medical Cockpit® - Infinity® Network (Ethernet) - Power cord - Potential equalization connector (grounding)
Front LEDs	Power mains – green when the device is connected to AC power Battery indicator – yellow during startup or fault conditions (such as a faulty battery)

Environmental Specifications

Humidity (non-condensing)

Operating	10 to 95 %
Storage	10 to 95 %

Temperature

Operating	0 to 40 °C (32 to 104 °F)
Storage	- 20 to 60 °C (- 4 to 140 °F)

Atmospheric pressure

Operating	485 mmHg to 795 mmHg (647 hPa to 1060 hPa)
Storage	375 mmHg to 795 mmHg (500 hPa to 1060 hPa)
Type of protection against electric shock	Class 1 (according to IEC 60601-1)
Protection against ingress of water	IPX1 per IEC 60529 – protected against harmful effects of water

Electrical specifications

Input voltage	100 to 240 VAC 50/60 Hz, 4 A
Battery	SLA
Operating time	At least 5 min (@ 250 W)
Recharging time	12 hours (maximum)



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Infinity® P2500

ORDERING INFORMATION**Order via:**

IACS Monitoring with C500	MS25510
IACS Monitoring with C700	MS25520
IACS Accessories	MS22113
System Accessories	MS23333

Language Support: English, German, French, Spanish, Italian, Dutch, Swedish, Portuguese (Brazilian), Danish, Norwegian, Japanese (Katakana), Russian, Turkish, Polish, Greek, Hungarian, Chinese (Simplified), Czech, Finnish

Note: language availability may vary. Please see your Dräger representative for more information.

Locked Options

12 Channel option (note: applies to C500 only)	MS20505
16 Channel option (note: applies to C500 and C700)	MS20506
Full Arrhythmia option	MS22225
12-lead ECG option	MS20508
Multi-IBP (IBP > 2) option	MS20504
IT Web-enabled layouts	MS20511
IT Web-enabled tabs	MS20512
View Editor (Custom View Editor)	MS20515
Physiological Calculations option	MS20516
Wireless (M540)	MS16266

For more information, please contact your Dräger representative.



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This product may not be approved for Market Release in all countries.

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The quality management system at Dräger Medical GmbH is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical devices).