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# Infinity® Acute Care System Monitoring Solution

Transform your hospital's workflow with the Infinity Acute Care System monitoring solution. This innovative two-screen solution opens the door to a new dimension of mobility, adaptability and configurability – providing for the seamless transition of the patient and the patient's information throughout the care path.



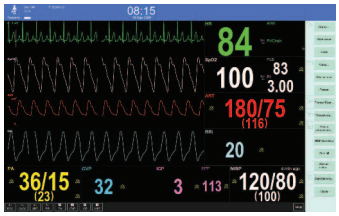

The Infinity® Acute Care System monitoring solution consists of the Infinity M540 patient monitor, integrated with the Dräger Infinity C500 or C700 Medical Cockpit®. The M540 is the vital signs engine that acquires data at the bedside and on transport, without having to disconnect the patient. Please refer to the datasheets for the M540 as well as the MPod® and MCable® accessories, which allow the system to scale depending on the patient's changing acuity level.

The Medical Cockpit is the bedside workstation for the Infinity Acute Care System monitoring solution, allowing a large, clear view of your patient's vital signs along with a consolidated picture of your patient via information access.

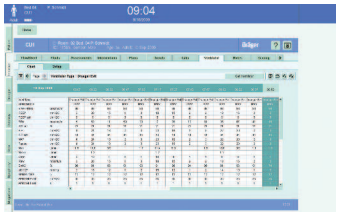
## FEATURES

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

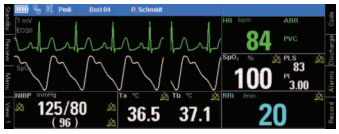
- Lets you monitor vital signs and therapy, view and control alarms, review Web-based diagnostic images, access patient records, and scale up functionality based on patient acuity level – all at one place
- Integrates real-time data, clinical applications, the hospital network and the Internet at the 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
- Scale up or down your solution 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




M540 portable monitor screen

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## 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, 2 hour, 4 hour, 8 hour, 12 hour, 1 day, 2 day, 3 day, 4 day display formats

### 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 (optional) 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 5 profiles per patient category, thus adapting alarm limits and parameter settings depending on the patient, the acuity, and the environment

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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 | 0.0 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

#### Lab data

Available optionally with Infinity Gateway

#### Calculations

Physiological (hemo/oxy/vent) calculations – optional

Drug dosage calculations

*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 | from 7.6 m (25 ft) |
| | |
| Cockpit to secondary display | |
| Maximum display delay | 250 ms in reference to the patient signal |
| Connection to Cockpit | DVI-I connector |

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## 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.

**Innovian® Solution Suite**

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 Innovian Solution Suite application, the admit screen is presented.

**Infinity Symphony Suite VF7**

This Dräger 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) VF5**

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 12.1

**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.

**Device Connectivity**

Infinity Acute Care System device connection compatibility:

Dräger Evita® V500

Dräger Babylog® VN500

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

Ventilator parameters supported: available upon request (in product IFU)

Ventilator waveforms: Paw, Flow, $CO_2$

Flow/volume and pressure/volume loops

Edwards Vigilance II $SvO_2$/CCO (all software versions)

Edwards Vigileo $SvO_2$/CCO (all software versions)

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## 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 LJ 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 | Approximately 150 watts |

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## CONTINUING TECHNICAL DATA




D-16440-2010

**Infinity P2500**

### 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 | – RS232<br>– Alarm output (Nurse Call)<br>– System cable<br>– Infinity Network (Ethernet)<br>– Potential equalization connector (grounding) |

#### 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.

#### 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 | 500 to 1060 hPa |
| Storage | 500 to 1060 hPa |

| | |
|---|---|
| Type of protection against electric shock | Class 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, 4A |
| Battery | SLA |
| Operating time | At least 5 min at full rated load |
| Recharging time | 12 hours (maximum) |

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## ORDERING INFORMATION

Order via:

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

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

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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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).

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