Infinity® Acute Care System
Patient Monitoring Solution

Transform your clinical workflow with Infinity® Acute Care System. Its multiparameter monitor integrates with its networked medical-grade workstation, giving you real-time vital signs, access to clinical hospital systems and data management applications for a comprehensive range of patient information and powerful analysis tools at the point-of-care.
Benefits

Continuous surveillance without interruption

Connect the Infinity M540 monitor to the monitoring network through the wired docking station at the patient bedside. Remove it from the docking station to transport, and the M540 transmits data wirelessly to the monitoring network, where it can be accessed with an Infinity CentralStation (optional).

When the monitor is docked in a new location, it retrieves recorded data from the previous Medical Cockpit, including up to 96 hours of continuous trends, and backfills the present cockpit with data collected during transport.

One monitoring platform for the entire hospital

A single scalable Infinity M540 monitor follows a patient over the entire care pathway, from admittance to discharge. Activate parameters, as needed, by connecting MPod and MCable measurement modules. Discontinue parameters, by disconnecting modules as the patient's condition improves and those measurements are no longer required.

System interoperability

Observe lung recruitment and review trends in respiration and physiological responses to therapies by integrating a Dräger ventilator with the Infinity Acute Care System. Display respiratory information alongside hemodynamic data on the Medical Cockpit.

In the OR, Infinity Acute Care System complements the anesthesia workstation, adding real-time vital sign monitoring and access to the patient EMR, in addition to networked and web-based applications.

Pre-configured and customizable Medical Cockpit screens

Choose up to eight pre-configured views and customize as many as eight additional views on the Medical Cockpit to harmonize your workflow. Adapt alarm limits and parameter settings to the clinical needs of the care unit's patient population. Keep real-time measurements visible, while using half the screen for reviewing trends and event data from the network or integrated devices with the Cockpit's split-screen function.

Decision-making support

Compile comprehensive clinical information at the point-of-care and use the system's analysis tool to assess the impact of therapies and medications. The IT capabilities of the Medical Cockpit enable you to retrieve data from Dräger information systems.

Apply the pulse pressure variation (PPV) measurement tool of the Infinity Acute Care System as a dynamic means to assess a patient's fluid responsiveness to volume.
Benefits

Use Internet Explorer® 11 Web browser with its HTML5 functionality and the system’s IT tabs to configure inputs for analysis. Split-screen capability allows you to display real-time monitoring data alongside information collected from hospital systems and intranet applications. Run web-based applications utilizing the Medical Cockpit’s Citrix® capabilities.

Storage of trends, events and alarms

Access up to 96 hours of trends through the Medical Cockpit, and up to 72 hours on the Infinity M540. Trends and events gathered during transport are automatically available in tabular and graphical formats at the cockpit upon arrival.

See significant incidents in the patient’s care history. The system stores up to 150 events, including alarms for all monitored parameters, and displays them in 20-second strips.

System Components

Infinity® M540

Streamline workflows with a monitor that goes from bedside to transport in the push of a button. Leave cables and modules attached to your patient and continue monitoring parameters and alarms in real time, while recording data during travel. Use the Infinity® M540 as a standalone monitor, or integrate it with hospital IT to access clinical information systems and data analysis applications.
System Components

**Infinity® M500 Docking Station**

Compact docking station charges the M540’s built-in battery and makes data collected by the M540 accessible to the Infinity® Medical Cockpit, when part of the Infinity® Acute Care System monitoring.

**Infinity® C700/C500 Medical Cockpit**

Bringing relevant clinical data to the point of care, the Infinity® C700/C500 Medical Cockpit is the central display component of the Infinity® Acute Care System

**Infinity® Gateway Suite Server Software**

Infinity® Gateway is an open standards based suite of software that enables seamless integration between the Infinity® Network and the existing IT infrastructure. The suite is comprised of applications, interfaces and data access tools that facilitate the exchange of patient information between your Infinity® Network and other hospital systems.

**Infinity® P2500**

The Infinity® P2500 is the dedicated power source and networking hub for the Infinity® M540 patient monitor and Infinity® Medical Cockpit of the Infinity® Acute Care System. The P2500 can also connect networked devices to the hospital’s alarm output (staff alert) system.
Accessories

**MonoLead® ECG Lead-Wire Set**

Frustrating tangles. Lost time. Patient discomfort. Managing the “spaghetti” that results from traditional ECG lead wires is a tedious, time-consuming distraction that takes focus away from your patient. As you attach the cables, you need to untangle and route the wires. Until now. With MonoLeads you spend more time with your patients and less time with wires.

**Infinity® MPod*-Quad Hemo**

There is a simple, uncluttered way to manage invasive pressures at the bedside. The Infinity® MPod*-Quad Hemo integrates up to four invasive pressures, cardiac output (C.O.), pulmonary wedge pressure (PWP) and temperature into a single, smart hemodynamic device.

**Infinity® MCable*-Dual Hemo**

There is a simple, uncluttered way to manage two invasive pressures at the bedside. With its distinctive design, the Infinity® MCable*-Dual Hemo consolidates up to two invasive pressure cables into a single cable that leads back to the Infinity® M540 monitor.

**Infinity® MCable*-Masimo SET®**

Bring the advantages of Masimo’s Signal Extraction Technology® (SET®) to your pulse oximetry monitoring. The noninvasive, motion-tolerant Infinity® MCable*-Masimo SET® works with Infinity® M540 patient monitor to provide reliable continuous readings during transport in the hospital and while stationary at the patient’s bedside.
Accessories

**Infinity® MCable®-Masimo rainbow SET®**

Bring the advantages of Masimo's rainbow Signal Extraction Technology (SET®) to the Infinity® M540 monitor – both at the bedside and on transport in the hospital.

**Infinity® MCable®-Nellcor™ OxiMax™**

Connect Infinity® MCable®-Nellcor™ OxiMax™ to the Infinity® M540 monitor and view accurate, continuous SpO₂ and pulse rate readings, even under difficult monitoring conditions. Set threshold limits and the sensor’s SatSeconds™ technology filters out minor, transient desaturation events, helping eliminate nuisance alarms.

**Infinity® MCable®-Mainstream CO₂**

Fast and easy to apply, the Infinity® MCable®-Mainstream CO₂ uses infrared absorption technology to make mainstream CO₂ measurements. It measures both end-tidal and inspired CO₂ and calculates the respiratory rate from the CO₂ waveform – at the bedside and on transport. Measured values are displayed on the Infinity® M540 or the Evita® Infinity® V500.

**Infinity® MCable®-Microstream® CO₂**

With Infinity® MCable®-Microstream® CO₂, measuring the presence of carbon dioxide helps you detect changes in your patient’s ventilatory status to pre-empt possible respiratory depression. You’ll see continuous waveforms and readings for end-tidal CO₂ concentration, inspiratory CO₂ concentration and respiratory rate on the patient’s Infinity® M540 monitor.
Accessories

**Infinity® MCable®-Analog/Sync**
Exports Analog Output data (ECG or ART) or QRS Synchronization data (ECG) parameter signals to an external device.

**Infinity® MCable®-Nurse Call**
Allows connection of either the M540 or the IACS to a hospital alarm output system. Active life-threatening or serious alarms at the bedside are then sent out to the hospital’s alarm output system.

**Scio Four Family**
O₂, CO₂, N₂O and volatile anaesthetic agents at a glance:
Scio Four Family can be used with an Infinity® monitor anywhere you need it.
Related Products

**Infinity® CentralStation Wide**

Viewing comprehensive real-time and retrospective clinical data supports you in making the most effective care decisions for your patients. Infinity® CentralStation Wide brings hemodynamic vital signs together with values from interfaced patient monitors, ventilators, and anesthesia devices. The Infinity® CentralStation Wide can also be used as a remote alarm annunciator for external devices such as ventilators.

**Infinity® OneNet**

Infinity® OneNet is an innovative networking solution that enables lifecritical patient data to be sent and received safely and securely over an existing hospital network. OneNet makes it possible for hospitals to link together data from Dräger point-of-care devices and access that data hospital-wide and beyond.

**TOFscan®**

The TOFscan® monitor provides an easy, reliable way to measure the muscle relaxation status of an anesthetized patient. You will see a range of data points to support you in making treatment decisions and adjustments to the patient’s neuromuscular blockade.
Technical Data

**Software Version**
Infinity Medical Cockpit and M540 Monitor
IACS VG7.1

**Secondary Display**
A Medical Cockpit can support video output (only) to a secondary display. The maximum screen resolution of the secondary display should match that of the C500 or C700 Medical Cockpit to which it is connected. The output is as follows, depending whether a C500 or C700 is used:

<table>
<thead>
<tr>
<th>Resolution</th>
<th>From C500: 17.3 in (439 mm) display: 1920 x 1080 pixel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>From C700: 21.5 in (546 mm) display: 1920 x 1080 pixel</td>
</tr>
</tbody>
</table>

**Cockpit to secondary display**

<table>
<thead>
<tr>
<th>Maximum display delay</th>
<th>250 ms in reference to the patient signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection to Cockpit</td>
<td>DisplayPort connector</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
</tbody>
</table>

**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.

**Infinity® Gateway PatientWatch**
This application allows you to review real-time and retrospective data from up to four bedside monitors on a Medical Cockpit.

**Citrix®**
Infinity Acute Care System can support IT applications using Citrix solutions.

- Citrix receiver version 14.7.0.13011 (version 4.7)
- Citrix Xenapp servers (versions 5, 6 and 6.5)
- Citrix Storefront version 3.6 and above with Citrix Web receiver version 2.0.0.47 and above

**Microsoft® Internet Explorer® Web Browser**
You can set up the Internet Explorer® 11 Web browser as an IT tab that contains several pre-configured Web pages or as a split-screen feature. There is also a Web application tab for a unique pre-configured page.

**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). For more details, speak with your local Dräger representative.

**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 technical data for detailed product specifications.

**Device Connectivity**

Anesthesia devices:
- Dräger Perseus® A500, 2.01
- Dräger Primus®, 4.53
- Dräger Primus IE, 4.53
- Dräger Fabius®, 3.35
- Dräger Apollo®, 4.53
- Dräger Zeus® IE, 2.0

Ventilation devices:
- Dräger Evita® V500, 2.51
- Dräger Evita V300, 2.42
- Dräger Babylog® VN500, 2.51
- Dräger Evita 2D, 1.00 and higher
Technical Data

Dräger Evita 4, 1.00 and higher
Dräger Evita XL, 5.00 and higher
Dräger Oxylog® 3000+, 1.06
Dräger Savina® 300, 4.21
Dräger Carina®, 3.21
Maquet Servo-i, V7

CCO devices:
Edwards Vigilance II SvO₂/CCO
Edwards Vigileo SvO₂/CCO
Edwards EV1000 SvO₂/CCO

BIS device:
Medtronic BIS VISTA

NMT device:
idMed TOFscan

SpO₂ devices:
Nellcor PM1000N Oximeter
Masimo Radical 7

Printer:
Universal Printing PS (recommended for most users)

Infinity Acute Care System can print to any printer compatible with the HP Universal Print Driver v6.2.0.20412.

System operating power
Infinity Medical Cockpit (C500 or C700), M540, M500, P2500 running with Cockpit display power on
150 watts on average

Infinity M540 Monitor and M500 Docking Station
See the Infinity M540 Monitor technical data for detailed M540 and M500 product specifications.

Infinity Medical Cockpit
See the Infinity Medical Cockpit technical data for detailed C500 and C700 product specifications.

Infinity P2500 networking hub and power supply
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.

Infinity P2500 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 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)
Technical Data

Infinity P2500 Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Operating</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity (non-condensing)</td>
<td>10 to 95%</td>
<td>5 to 95%</td>
</tr>
<tr>
<td>Temperature</td>
<td>0 to 40 °C (32 to 104 °F)</td>
<td>-20 to 60 °C (-4 to 140 °F)</td>
</tr>
<tr>
<td>Atmospheric pressure</td>
<td>485 mmHg to 795 mmHg (647 hPa to 1,060 hPa)</td>
<td>375 mmHg to 795 mmHg (500 hPa to 1,060 hPa)</td>
</tr>
<tr>
<td>Type of protection against electric shock</td>
<td>Class 1 (according to IEC 60601-1)</td>
<td></td>
</tr>
</tbody>
</table>

Electrical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>100 to 240 VAC 50/60 Hz, 4 A</td>
</tr>
<tr>
<td>Battery</td>
<td>SLA</td>
</tr>
<tr>
<td>Operating time</td>
<td>At least 5 min (@ 250 W)</td>
</tr>
<tr>
<td>Recharging time</td>
<td>12 hours (maximum)</td>
</tr>
<tr>
<td>Protection against ingress of water</td>
<td>IPX1 per IEC 60529 – protected against harmful effects of water</td>
</tr>
</tbody>
</table>

Ordering Information

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, Croatian and Romanian.

Note: Language availability may vary. Please speak with your Dräger representative for more information.

Locked Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Channel option (note: applies to C500 only)</td>
<td>MS20505</td>
</tr>
<tr>
<td>16 Channel option (note: applies to C500 and C700)</td>
<td>MS20506</td>
</tr>
<tr>
<td>Full Arrhythmia option</td>
<td>MS22225</td>
</tr>
<tr>
<td>12-lead ECG option</td>
<td>MS20508</td>
</tr>
<tr>
<td>Multi-IBP (IBP &gt; 2) option</td>
<td>MS20504</td>
</tr>
<tr>
<td>IT Web-enabled layouts</td>
<td>MS20511</td>
</tr>
<tr>
<td>IT Web-enabled tabs</td>
<td>MS20512</td>
</tr>
<tr>
<td>View Editor (Custom View Editor)</td>
<td>MS20515</td>
</tr>
<tr>
<td>Physiological Calculations option</td>
<td>MS20516</td>
</tr>
<tr>
<td>Wireless (M540)</td>
<td>MS16266</td>
</tr>
<tr>
<td>Independent Display</td>
<td>MS33832</td>
</tr>
</tbody>
</table>

For more information, please speak with your Dräger representative.

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TOFscan is manufactured by iDMed of Marseille, France. Distributed by Dräger.
Notes