



iMEC Series

Patient Monitor



Green Patient Monitor for More Efficient Bedside Care

mindray
healthcare within reach

100% Performance – 50% Energy

An innovative patient monitor with 'green' credentials, Mindray's iMEC helps you to reduce your hospital's ecological footprint and to contribute to a sustainable care environment.

Based on its optimized hardware design, iMEC achieves a **50% lower power consumption** compared to conventional patient monitors. This allows for an improved battery life and a fan-less design, providing cleaner and quieter performance. It also offers a robust but thin and lightweight structure, making iMEC very easy to carry.

The touch screen allows you to operate iMEC in a quick and convenient way.

With Wi-Fi capability, iMEC integrates seamlessly with Mindray's Hypervisor VI Central Monitoring System. This provides you with convenient access to real time patient information - even during transport.

Its preconfigured measurement parameters meet all standard clinical requirements and allow iMEC to operate in various hospital settings, including Emergency Rooms, Recovery Units, General Wards and Outpatient areas.



Exceptional Design and Cost-Effective Monitoring

"No-fan design" allows for a quiet care environment. Preventing dust collection and reduces the risk of airborne contamination.

Weighing from 2.6Kg to 3.6Kg with an integral **carry-handle**, the lightweight iMEC is ideal as a portable monitor.

Alarm light is visible from 360 degrees

The user-configurable **touch screen** is available in 8.4", 10.4" or 12.1" sizes, with 800 x 600 high-resolution and up to 8 traces.

Ergonomic buttons enable quick access to commonly used functions, such as alarm silence, alarm pause and start NIBP.



Quick keys help caregivers to rapidly access frequently used functions such as trend review, and alarm settings and useful display modes, including large fonts and mini-trends.

The integral 3-trace **thermal recorder** provides waveform and data reports for diagnostic support.

Powerful data storage for up to 48 hours full-disclosure, 120 hours of tabular and graphic trends, 1,000 NIBP measurements and 100 alarm events.

Li-ion battery allows for up to 4 hours of continuous monitoring.

Reliable Technology for Improved Usability

Patient Care in One Touch

Through its simple and intuitive touch screen display, iMEC offers instant access to all functions and allows you to monitor your patients in a quicker and more convenient way.

Customizable hot keys provide shortcuts to the most frequently used functions, saving you time for patient care

Quick and Easy Monitoring

A compact and light weight design make iMEC easy to carry while optional rolling-stand and bedrail mounting allow for convenient in-hospital transport.

iMEC's user-friendly interface is intuitive and easy to use.

- Dynamic mini-trends provide up to 8 hours of useful information on your patient's status
- Large font display offers a clear view of all vital signs and allows you to monitor your patient from a distance.
- "View other bed" helps you to monitor other patients directly at the bedside on the iMEC without accessing the central station.

Auto detectable 3 or 5 lead ECG and self-adjusting ECG, SpO₂ waveforms allow you to spend more time on patient care and less time on operating the monitor.

The centralized alarm system enables you to quickly review and modify alarm settings.

The logical review of alarms, events, trends and full-disclosure data helps you to quickly and accurately assess a patient's situation.

With LAN and Wi-Fi capability, your iMEC can communicate with the HyperVisor VI Central Monitoring System both from the bedside and during transport.

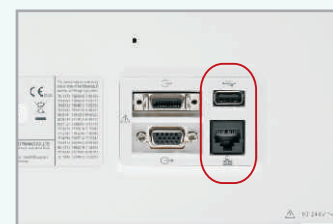
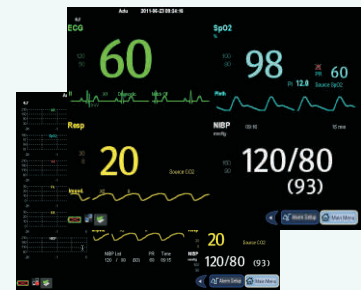
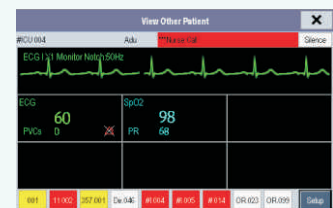
Optimized Structural Design – Simplifying Upgrades and Maintenance

The iMEC is designed to simplify maintenance and make it easy to perform future upgrades.

Future software upgrades can be performed on one iMEC or multiple iMECs simultaneously through a standard RJ45 port.

The USB port allows you to transfer patient data to a PC and to copy your personalized user settings to different iMECs.

The maintenance-free Li-ion battery offers up to 4 hours continuous monitoring.



Technical Specifications

iMEC12/ iMEC10

Monitor size: 360mm x273 mm x 122mm
 Weight: 3.2kg, Standard parameters configuration, including a lithium battery and a recorder;
 3.6kg, standard and optional parameters configuration, including touchscreen, a lithium battery and a recorder

iMEC8

Monitor size: 268mm x210 mm x 114mm
 Weight: 2.6kg, Standard parameters configuration ,including a lithium battery and a recorder;
 2.9kg, standard and optional parameters configuration, including touchscreen, a lithium battery and a recorder

Display

Type: iMEC 12: 12.1" color LED backlight LCD
 iMEC 10: 10.4" color LED backlight LCD
 iMEC 8: 8.4" color LED backlight LCD
 Resolution: 800 x 600 pixels
 Waveforms: up to 8
 External display: 1 display through VGA

ECG

3-lead: I, II, III
 5-lead: I, II, III, aVR, aVL, aVF, V
 Gain: x0.125, x0.25, x0.5, x1, x2, x4, Auto
 Sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
 Bandwidth: Diagnostic Mode: 0.05-150Hz
 Monitor Mode: 0.5-40Hz
 Surgical Mode: 1-20Hz
 ST Mode: 0.05-40Hz

Defib.protection:

Withstand 5000V (360J)defibrillation

Recovery time:

≤10 s

CMRR:

Diagnostic Mode: ≥90dB
 Monitor Mode: ≥105dB
 Surgical Mode: ≥105dB
 ST Mode: ≥105dB
 -2.0 to 2.0 mV
 Yes

ST analysis:

Arr analysis:

Heart Rate

Range:

Adu: 15 to 300 bpm
 Ped: 15 to 350 bpm
 Neo: 15 to 350 bpm

Resolution:

Accuracy:

±1 bpm or ±1%, whichever is greater

Respiration

Range:

Adu: 0 to 120 rpm
 Ped/Neo: 0 to 150 rpm

Resolution:

Accuracy:

7 to 150 rpm: ±2 rpm or ±2%, whichever is greater

0 to 6 rpm:

Lead:

1 rpm
 Not specified
 I or II (default: lead II)

Sweep speed:

6.25 mm/s, 12.5 mm/s or 25 mm/s

SpO₂

Mindray Range:

Resolution:

Mindray accuracy:

0 to 100%
 1%
 ±2% (70-100%, Adu/Ped, non-motion)
 ±3% (70-100%, Neo, non-motion)
 ±3% (70-100%, motion)
 Unspecified (0-69%)

Refreshing rate:

Pulse rate

Range

1 s
 Mindray SpO₂: 20 to 254 bpm
 Masimo SpO₂: 25 to 240 bpm
 Nellcor SpO₂: 20 to 300 bpm
 IBP Module: 25 to 350 bpm
 NIBP Module: 40 to 240 bpm
 Mindray SpO₂: ±3 bpm (non-motion)
 ±5 bpm (motion)

Accuracy

IBP Module: ±1bpm or ±1%, whichever is greater
 NIBP Module: ±3bpm or ±3%, whichever is greater
 1 bpm

Resolution:

Refreshing rate:

NIBP

Method:

Operation:

Parameters:

Systolic range

Diastolic range

Mean range

Accuracy

Resolution:

Automatic Oscillometric mode Manual, Auto, STAT
 Systolic, Diastolic, Mean
 Adu: 40 to 270 mmHg
 Ped: 40 to 200 mmHg
 Neo: 40 to 135 mmHg
 Adu: 10 to 210 mmHg
 Ped: 10 to 150 mmHg
 Neo: 10 to 100 mmHg
 Adu: 20 to 230 mmHg
 Ped: 20 to 165 mmHg
 Neo: 20 to 110 mmHg
 Max mean error: ±5 mmHg
 Max standard deviation: 8 mmHg
 1 mmHg

Temperature

Range: 0 to 50°C (32 to 122 F)

Resolution: 0.1°C

Accuracy: ±0.1°C or ±0.2 F (without probe)

Parameters: T1, T2 and TD

Data Storage

Trend data: 120 hrs (interval 1 min), 4 hrs (interval 5 sec)

Alarm events: 100 events and associated waveforms

Arr. events: 100 Arr. events and associated waveforms

NIBP: 1000 measurements

Waveforms: Max. 48 hrs full disclosure waveforms(specific storage time depends on the type and numberof waveforms stored)

Battery

Type: Chargeable Lithium-Ion

Number: 1

Voltage: 11.1 VDC

Capacity: 2600 mAh (4500 mAh optional)

Run time: 2 hrs(2600 mAh)

4 hrs(4500 mAh)

Recharge time: 4.5 hrs maximum(2600 mAh)

8 hrs maximum(4500 mAh)

Interfacing

Connectors:

1 AC power connector
 1 RJ45 network connector
 1 USB 2.0 connector
 1 VGA output connector
 1 multifunctional output connector (output ECG, IBP , nurse call and Defib. Synch. Signals)

Recorder

Type: Thermal array

Speed: 25 mm/s, 50 mm/s

Trace: 3

Power Requirements

AC Voltage: 100 to 240 VAC, 50/60Hz

Current: 1.1 to 0.5 A

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