

Green Patient Monitor for More Efficient Bedside Care



100% Performance with 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.

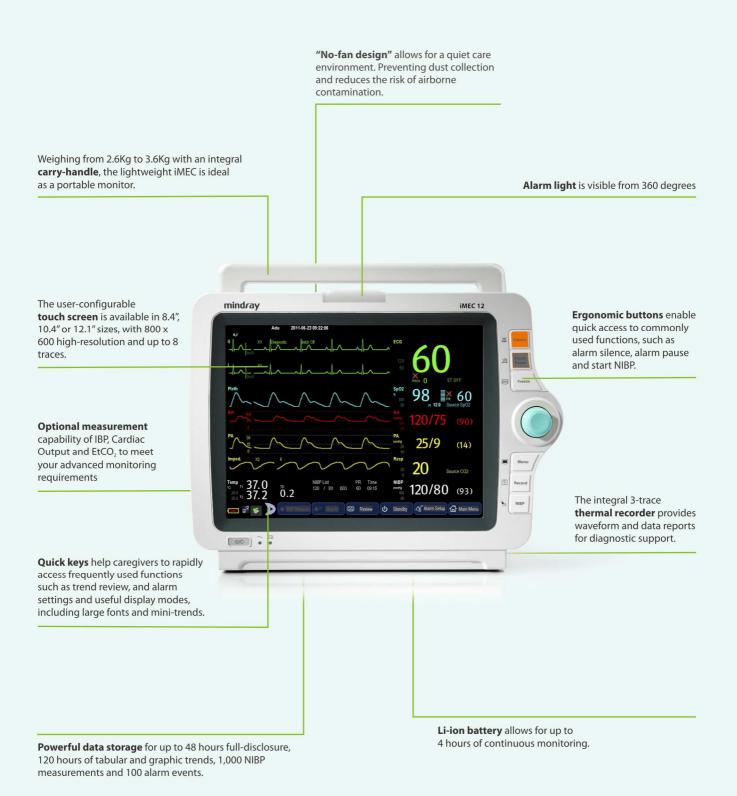
The touch screen allows you to operate iMEC in a quick and convenient way.

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



Exceptional Design and Cost-Effective 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 and IBP 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: Weight: 360mm x273 mm x 122mm 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 2.6kg, Standard parameters configuration ,including a Weight: lithium battery and a recorder;

2.9kg, standard and optional parameters configuration, including touchscreen, a lithium battery and a recorder Display iMEC 12: 12.1" color LED backlight LCD iMEC 10: 10.4" color LED backlight LCD iMEC 8: 8.4" color LED backlight LCD Type: Resolution: 800 x 600 pixels Waveforms: up to 8 External display: 1 display through VGA ECG I, II, III I, II, III, aVR, aVL, aVF, V 3-lead x0.125, x0.25, x0.5, x1, x2, x4, Auto 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s Diagnostic Mode: 0.05-150Hz Gain: Sweep speed: Bandwidth: Monitor Mode: 0.5-40Hz Surgical Mode: 1-20Hz ST Mode: 0.05-40Hz Defib.protection: Withstand 5000V (360J)defibrillation Recovery time: ≤10 s Diagnostic Mode: ≥90dB CMRR: Monitor Mode: ≥105dB Surgical Mode: ≥105dB ST Mode: ≥105dB ST analysis: -2.0 to 2.0 mV Arr analysis: **Heart Rate** Adu: 15 to 300 bpm Ped: 15 to 350 bpm Range: Neo: 15 to 350 bpm Resolution: ±1 bpm or ±1%, whichever is greater Accuracy: Respiration Adu: 0 to 120 rpm Ped/Neo: 0 to 150 rpm Range: Resolution: Accuracy: 0 to 6 rpm: 7 to 150 rpm: ± 2 rpm or $\pm 2\%$, whichever is greater Not specified Lor II (default: lead II) I ead 6.25 mm/s, 12.5 mm/s or 25 mm/s Sweep speed: SpO. Mindray/Nellcor Range: 0 to 100% Masimo Range: 1% to 100% Resolution: Mindray accuracy: ±2% (70-100%, Adu/Ped, non-motion) ±3% (70-100%, Neo, non-motion) ±3% (70-100%, motion) Unspecified (0-69%) ±2% (70-100%, Adu/Ped, non-motion) ±3% (70-100%, Neo, non-motion) Masimo accuracy: ±3% (70-100%, motion) Unspecified (0-69%) Actual accuracy depends on probe. Refer to the operator's Nellcor accuracy: manual Refreshing rate: Pulse rate Mindray SpO₂: 20 to 254 bpm Range Masimo SpO₂: 25 to 240 bpm Nellcor SpO₂: 20 to 300 bpm IBP Module: 25 to 350 bpm NIBP Module: 40 to 240 bpm Accuracy Mindray SpO₂: ±3 bpm (non-motion) ±5 bpm (motion) Masimo SpO₂: ±3 bpm (non-motion) ±5 bpm (motion) Nellcor SpO₂: ±3 bpm (20-250 bpm) Unspecified (251-300 bpm) IBP Module: ± 1 bpm or ± 1 %, whichever is greater NIBP Module: ± 3 bpm or ± 3 %, whichever is greater Resolution: Refreshing rate: NIBP Method: Automatic Oscillometric Manual, Auto, STAT Operation mode: 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

1 mmHq

Neo: 20 to 110 mmHg Max mean error: ±5 mmHg Max standard deviation: 8 mmHg

Parameters

Systolic range

Diastolic range

Mean range

Accuracy Resolution

Temperature 0 to 50°C (32 to 122 F) Range : Resolution 0.1°C ±0.1°C or ±0.2 F (without probe) Accuracy: Parameters : T1, T2 and TD Channel: up to 2 channels -50 to 300 mmHg Range: Resolution: 1 mmHg ±2% or ±1 mmHg, whichever is greater (without sensor) 5 uV/mmHg/V Accuracy : Sensitivity: Impedance range $300 \text{ to } 3000\Omega$ (Not an option for iMEC8) C.O. Thermodilution C.O.: 0.1 to 20 L/min Method: Range TB: 23 to 43°C TI:0 to 27°C C.O.: $\pm 5\%$ or ± 0.1 L /min, whichever is greater Accuracy TB, TI: ±0.1°C (without sensor) C.O.: 0.1 L/min Resolution TB. TI: 0.1°C Sidestream CO, 0 to 99 mmHg CO, Range 0 to 40 mmHg : ±2 mmHg 41 to 76 mmHg : ±5% of the reading 77 to 99 mmHg : ±10% of the reading Accuracy Sample flowrate: 70, 100 ml/min Accuracy: Warm-up time +15% or ±15 ml/min, whichever is greater. ISO accuracy mode : 45 s Full accuracy mode : 10 min 0 to 120 rpm AWRR range: AWRR precision: ±2 rpm Response time When using neonatal watertrap and 2.5 m neonatal sampling line <4 s @ 100 ml/min 45 s @ 70 ml/min
When using adult watertrap and 2.5 m adult sampling line
6 s @ 100 ml/min <7 s @ 70 ml/min 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s Apnea time: Microstream CO, 0 to 99 mmHg CO, Range 0 to 38 mmHg : \pm 2 mmHg 39 to 99 mmHg : \pm 5% of reading +0.08% for every 1mmHg(above 38mmHg) Sample flowrate: 50ml/min -7.5/+15ml/min Accuracy: 30 s (typical) 0 to 150 rpm Initialization time: awRR range: awRR precision: 0 to 70 rpm: ±1 rpm 71 to 120 rpm : ±2 rpm 121 to 150 rpm : ±3 rpm 2.9 s (typical) 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s Response time: Apnea time: Mainstream CO. CO₂ Range: 0 to 150 mmHg 0 to 40 mmHg : ±2 mmHg 41 to 70 mmHg : ±5% of the reading 71 to 100 mmHg : ±8% of the reading Accuracy: 101 to 150 mmHg: ±10% of the reading 0 to 150 rpm awRR range: Accuracy: Response time: ±1 rpm <60 ms **Data Storage** 120 hrs (interval 1 min), 4 hrs (interval 5 sec),1 hrs(interval 1 sec) 100 events and associated waveforms Trend data Alarm events: Arr. events: NIBP: 100 Arr. events and associated waveforms 1000 measurements Waveforms Max. 48 hrs full disclosure waveforms(specific storage time depends on the type and number of waveforms stored) Battery Type: Number: Chargeable Lithium-Ion Voltage: 11.1 VDC 2600 mAh (4500 mAh optional) Capacity: Run time 2 hrs(2600 mAh) 4 hrs(4500 mAh) Recharge time: 4.5 hrs maximum(2600 mAh) 8 hrs maximum(4500 mAh) Interfacing 1 AC power connector 1 RJ45 network connector Connectors 1 USB 2.0 connector 1 VGA output connector 1 multifunctional output connector (output ECG, IBP , nurse call and Defib. Synch. Signals) Recorder Thermal array 25 mm/s, 50 mm/s

Type: Speed: Trace: **Power Requirements**

AC Voltage:

100 to 240 VAC, 50/60Hz Current

1.1 to 0.5 A

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Mindray is listed on the NYSE under the symbol "MR"