0 to 50°C (32 to 122°F)

T1, T2 and TD

-50 to 360 mmHg

±0.1°C or ±0.2 F (without probe)

±2% or ±1 mmHg, whichever is greater (without sensor)

Accuracy:

Accuracy:

Technical Specifications 300 to 30000 Impedance range: 362 mm x 273 mm x 122 mm Monitor size: 3.2 kg, Standard parameters configuration, including a (Not an option for iMEC8) lithium battery and a recorder 3.6 kg, Standard and optional parameters configuration, C.O.: 0.1 to 20 L/min including touchscreen, a lithium battery and a recorder TB: 23 to 43°C TI: 0 to 27°C C.O.: ±5% or ±0.1 L/min, whichever is greater Accuracy: iMEC 12: 12.1" color LED backlight screen TB, TI: ±0.1°C (without sensor) Resolution: Resolution: 800 x 600 pixels C.O.: 0.1 L/min TB, TI: 0.1°C External display 1 display through VGA ECG 3-lead: 5-lead: CO, Range: 0 to 99 mmHa Accuracy: 0 to 40 mmHg: ±2 mmHg 41 to 76 mmHg: ±5% of the reading 77 to 99 mmHg: ±10% of the reading I II III aVR aVI aVF V 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 Sample flow rate Adult: 70, 100, 120, 150 ml/min Monitor Mode: 0.5-40Hz Accuracy: ±15% or ±15 ml/min, whichever is greater Warm-up time: Iso accuracy mode: 45 s Surgical Mode: 1-20Hz ST Mode: 0.05-40Hz Full accuracy mode: 10 min 0 to 120 rpm awRR range: Defib. protection: Withstand 5000V (360J) defibrillation Recovery time: CMRR: awRR precision Diagnostic Mode: ≥90dB When using neonatal water trap and 2.5 m neonatal sampling line Response time: Monitor Mode: ≥105dB <4 s @ 100 ml/min <4.5 s @ 70 ml/min Surgical Mode: >105dB When using adult water trap and 2.5 m adult sampling line <4.5 s @ 150 ml/min ST analysis -2 0 to 2 0 mV <5 s @ 120 ml/min <5.5 s @ 100 ml/min Arr analysis: OT/OTc· <6.5 s @ 70 ml/min ECG summary 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s Appea time: Adu: 15 to 300 bpm CO2 Range: 0 to 99 mmHg Ped: 15 to 350 bpm Neo: 15 to 350 bpm Accuracy: 0 to 38 mmHq: ±2 mmHq 39 to 99 mmHg: ±5% of reading +0.08% for every 1mmHg ±1 bpm or ±1%, whichever is greate (above 38mmHg) Sample flow rate: Accuracy: Initialization time: -7 5/+15ml/min Adu: 0 to 200 rpm 30 s (typical) awRR range: awRR precision: 0 to 150 rpm 7 to 150 rpm: ±2 rpm or ±2%, whichever is greater 71 to 120 rpm; ±2 rpm 121 to 150 rpm: ±3 rpm 0 to 6 rpm: Not specified I or II (default: lead II) Response time: Measured with a FilterLine of standard length 3 mm/s, 6.25 mm/s, 12.5 mm/s or 25 mm/s, or 50 mm/s Sweep speed: 2.9 s (typical) 45 s (Maximum) Apnea time: 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s **SpO₂** Mindray/Nellcor range: Masimo range: 1% to 100% 0 to 150 mmHg 0 to 40 mmHg: ±2 mmHg CO2 Range: +2% (70-100%, Adu/Ped) Mindray accuracy: Accuracy: 41 to 70 mmHg: ±5% of the reading Unspecified (0-69%) 71 to 100 mmHg: ±8% of the reading Masimo accuracy: ±2% (70-100%, Adu/Ped, non-motion) 101 to 150 mmHg: ±10% of the reading awRR range +3% (70-100%, Neo. non-motion) 0 to 150 rpm ±3% (70-100%, motion) Unspecified (1-69%) Response time Nellcor accuracy: Actual accuracy depends on probe. Refer to the operator's manual 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s 120 hrs (interval 1 min), 4 hrs (interval 5 sec), 1 hrs(interval 1 sec) Pulse Rate Trend data: Mindray SpO₃: 20 to 300 bpm Alarm events: 100 events and associated waveforms Masimo SpO₂: 25 to 240 bpm Arr. events: 100 Arr, events and associated waveforms Nellcor SpO.: 20 to 300 bpm Max. 48 hrs full disclosure waveforms (specific storage time IBP Module: 25 to 350 bpm Waveforms: depends on the type and number of waveforms stored) NIBP Module: 30 to 300 bpm EWS: MEWS, NEWS and User-defined Scoring
Dose, Oxygenation, Ventilation, Hemodynamic and Renal calculations Accuracy: Calculations: Masimo SpO.: +3 bpm (non-motion), +5 bpm (motion) Nellcor SpO₂: ±3 bpm (20-250 bpm) Unspecified (251-300 bpm) IBP Module: ±1bpm or ±1%, whichever is greate Chargeable Lithium-Ion NIBP Module: ±3bpm or ±3%, whichever is greater Voltage: Capacity: 11 1 VDC 2600 mAh (4500 mAh optional) Refreshing rate: 2 hrs (2600 mAh) 4 hrs (4500 mAh) Automatic Oscillometric 4.5 hrs maximum (2600 mAh) Method: Operation mode: Manual, Auto, STAT, Sequence 8 hrs maximum (4500 mAh) Systolic range: Adu: 25 to 290 mmHa 1 AC power connector Ped: 25 to 240 mmHg Neo: 25 to 140 mmH 1 RJ45 network connector 1 USB 2.0 connector Diastolic range: Adu: 10 to 250 mmHg Ped: 10 to 200 mmHg 1 VGA output connector 1 multifunctional output connector (output ECG, IBP, Neo: 10 to 115 mmHc Adu: 15 to 260 mmHd nurse call and Defib. Synch. Signals) 1 built-in dual-band WiFi module (2.4G/5G) Ped: 15 to 215 mmHg Neo: 15 to 125 mmHg Accuracy: Max mean error: ±5 mmHg Max standard deviation: 8 mmHg Thermal dot array Resolution 25 mm/s, 50 mm/s

AC Voltage:

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> iMEC12 **Patient Monitor**



Green Patient Monitor for More Efficient Bedside Care



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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 Outpatient areas.



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 bedrail mounting allows for convenient inhospital transport.

An optional rolling stand provides iMEC with maximum mobility. Both rolling stand and wall mount feature simple mounting and guick release.

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.
- EWS assists with detection of physiological changes and helps identify patients at risk of further deterioration.
- ECG summary offers a quick view of abnormal ECG information in the previous 24 hours.

Auto detectable 3 or 5 lead ECG and self-adjusting ECG, SpO_2 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 MaintenanceThe 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.











