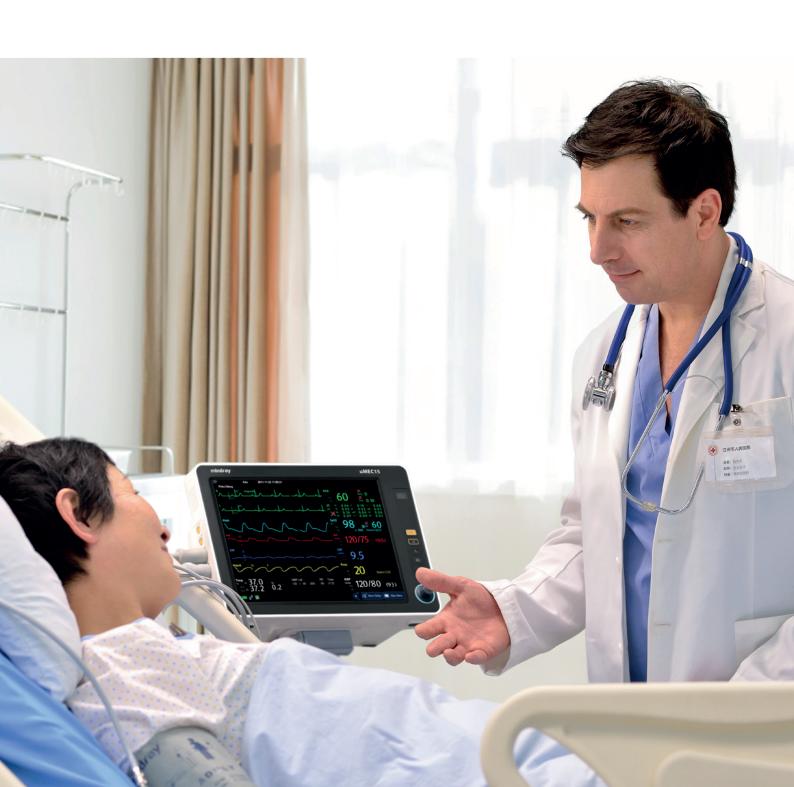
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uMEC 15

Patient Monitor

Lots to care, less to spend



uMEC 15 Patient Monitor

Excellent Performance

With Mindray's 25-year experience in patient monitoring, uMEC series patient monitors cater to clinical needs by offering precise and stable measurement of essential parameters. When monitoring is reliable, you can naturally be more confident with your clinical decisions.

- Mindray's patented Multi-lead ECG Algorithm
- NIBP quick-measurement technique
- Anti-interference SpO₂ algorithm
- Large capacity for data storage
- External USB storage devices supported
- 6-hour continuous runtime with one Lithium-ion battery







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Reliability

To be effective in different environment, uMEC has passed strict electrical safety tests and reliability tests. It is extremely durable and has a long life span.

- Working temperature is 0~40°C, unaffected by extremes
- 0.75 m drop-protection and IPX1 water resistance
- Strong plastic housing resists aging and yellowing, with high corrosion resistance
- Low power consumption and fanless design
- Mindray accessories with quality material and production technique



Essentially advanced measurements

1200hours trends 1800 alarms **1600**NIBP measurements **48**hours full disclosure

Huge data capacity





HR/BP analysis Long battery working time

uMEC 15 Patient Monitor



Ease of Use

As an user-friendly patient monitor, uMEC helps to simplify workflow and improve efficiency. The monitor provides very intuitive user interface to help faster and easier applications even for new users. Caregivers need less time for training, and get more time for patient care.

- 15 inch high resolution LED screen with optional touch screen
- Supports various monitoring screen layouts, including large font, full/half screen 7-lead monitoring, view other bed, etc.
- Default settings satisfy general clinical requirements
- Statistics for heart rate changes and ambulatory blood pressure monitoring
- Less than 5kg weight with battery
- Unique accessory cabinet

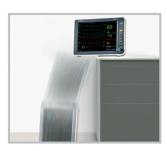




User-friendly interface



Unique accessory cabinet



Drop protection



Compatible with multiple cleaning agents

Technical Specifications

uMEC15

405mm x165mm x 305mm

Monitor size: Weight: ≤5kg, standard parameters configuration.

including a lithium battery and a recorde

Display

15" color LED, or touch screen 1024x768 pixels Type: Resolution:

Waveforms: 1 display through VGA External display:

Lead set

3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, aVF, V Automatic 3/5-lead recognition x0.125, x0.25, x0.5, x1, x2, x4, Auto

Gain: Sweep speed: Bandwidth:

Surgical Mode: 1-20Hz ST Mode: 0.05-40Hz

Defib.protection: Withstand 5000V (360J)defibrillation

Recovery time: <10 s

Diagnostic Mode: >90dB

Monitor, Surgical, ST Mode: >105dB

Range:-2.0 to 2.0 mV ST analysis:

Accuracy: ± 0.02 mV or ± 10 %, whichever is greater (-0.8 to +0.8 mV)

Resolution: 0.01 mV

Support, multi-lead, 24 classifications, including AF Arr analysis:

QT analysis:

Heart Rate

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

Resolution: ±1 bpm or ±1%, whichever is greater Accuracy

HR analysis: Support

Respiration

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

Resolution: 1 rpm

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

0 to 6 rpm: Not specified

Sweep speed: 3 mm/s, 6.25 mm/s, 12.5 mm/s, 25 mm/s or 50mm/s

Range: Resolution: 0 to 100%

Accuracy:

±2% (70-100%, Adu/Ped) ±3% (70-100%, Neo)

Unspecified (0-69%)

Refreshing rate:

Pulse Rate

Accuracy:

25 to 350 bpm (from IBP) Range:

20 to 254 bpm (from SpO. 30 to 300 bpm (from NIBP)

±3 bpm (from SpO₂) ±3bpm or ±3%, whichever is greater (from NIBP)

Resolution: 1 bpm

Refreshing rate:

NIBP

Method: Automatic Oscillometric Manual, Auto, STAT, Sequence Systolic, Diastolic, Mean Operation mode: Parameters: Systolic range

Adu: 25 to 290 mmHg Ped: 25 to 240 mmHg Neo: 25 to 140 mmHg Adu: 10 to 250 mmHg Ped: 10 to 200 mmHg Neo: 10 to 115 mmHg

Adu: 15 to 260 mmHg Mean range: Ped: 15 to 215 mmHg Neo: 15 to 125 mmHg Max mean error:±5 mmHg

Accuracy: Max standard deviation: Resolution: 1 mmHa NIBP analysis: Support

Temperature

Diastolic range:

Channel: T1 T2 and TD Parameters: Range: 0 to 50°C (32 to 122 °F)

Resolution:

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

IBP Option

up to 2 channels -50 to 300 mmHg Channel: Range: Resolution:

1 mmHg $\pm 2\%$ or ± 1 mmHg, whichever is greater (without sensor) Accuracy:

 $5 \,\mu\text{V/V/mmHg}$ 300 to 3000 Ω Sensitivity: Impedance range:

Thermodilution C.O.: 0.1 to 20 L/min TB: 23 to 43°C Method: Range:

TI: 0 to 27°C C.O.: \pm 5% or \pm 0.1 L/min, whichever is greater Accuracy:

TB, TI: ±0.1°C (without sensor) C.O.: 0.1 L/min

Resolution:

Sample flowrate:

Sidestream 0 to 20% (0-152mmHg under standard atmospheric pressure) Range: Accuracy:

±0.1% (<1%) ±0.2% (1 to 4.9%) ±0.3% (5 to 6.9%) ±0.4% (7 to 11.9%) ±0.5% (12 to 12.9%) ±(0.43%+8%rel) (13 to 20%)

Unspecified (over 20%) 90, 120ml/min(sidestream)

Sample flowrate accuracy: ±15% or ±15 ml/min, whichever is greater.

Start-up time: <90s

When using adult water trap and 2.5 m adult sampling line Response time:

When using neonatal water trap and 2.5 m neonatal sampling line <4.5 s @ 90 ml/min

0 to 150 rpm <60rpm: ±1

10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s Apnea time:

Data Storage Trend data:

AWRR range: AWRR precision:

1200hrs (interval 10min), 120 hrs (interval 1 min), 4 hrs (interval 5 sec)

Alarm events: 1800 events and associated waveforms Arr. events: 128 Arr. events and associated waveforms 1600 measurements

Waveforms: Max. 48 hrs full disclosure waveforms

Battery

1 Build-in Chargeable Lithium-lon battery 11.1 VDC Type: Voltage:

2500 mAh (5000 mAh optional) 2.5 hrs (2500mAh), 6 hrs(5000 mAh) 2500 mAh: 4 hrs maximum (power off) Capacity: Run time: Recharge time: 5000 mAh: 8 hrs maximum (power off)

Interfacing

1 AC power connector 1 RJ45 network connector Connectors:

2 USB 2.0 connector 1 VGA output connector

1 multifunctional output connector (output ECG, nurse call and Defib.

Synch. Signals) Support, 5G/2.4G dual band Barcode scanner: Support

Network printer: Support

Recorder Option

Type:

Thermal array 12.5mm/s, 25 mm/s, 50 mm/s Speed:

Trace:

Power Requirements AC Voltage:

100 to 240 VAC, 50/60Hz

Environmental Requirements

Operating: 0 to 40°C (32 to 104°F) Storage: -20 to 60°C (-4 to 140°F) Operating: 15 to 95 % (non condensing) Humidity: Storage: 10 to 95 % (non condensing) Operating: 427.5 to 805.5 mmHg (57.0 to 107.4 kPa) Barometric:

Storage: 120 to 805.5 mmHg (16.0 to 107.4 kPa)

*Not all of the functions are available in all geographies, please contact with local Mindray sales representative for more information.