Technical Specifications

315mm x 155 mm x 220mm

≤3.5kg, Standard parameters configuration, including a lithium battery Weight:

uMEC12 Monitor size

345mm x160mm x 255mm

Weight: ≤4kg, Standard parameters configuration, including a lithium batter and a recorder

Display Type:

uMEC10: 10.4" color LED, or touchscreen uMEC12: 12.1" color LED, or touchscreen

Resolution: 800 x 600 pixels uMEC12: up to 11

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 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s Diagnostic Mode: 0.05-150Hz

Sweep speed: Bandwidth: Monitor Mode: 0.5-40Hz

Surgical Mode: 1-20Hz

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

Diagnostic Mode: >90dB Monitor, Surgical, ST Mode: >105dB CMRR-

ST analysis: Range:-2.0 to 2.0 mV

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

Yes, multi-lead, 24 classifications, including AF Arr analysis

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

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

HR analysis

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

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

0 to 6 rpm: Not specified

Sweep speed:

3mm/s 6.25 mm/s 12.5 mm/s 25 mm/s or 50mm/s

SpO₂ Range: Resolution: 0 to 100%

±2% (70-100%, Adu/Ped) Accuracy:

±3% (70-100%, Neo) Unspecified (0-69%)

Pulse Rate

20 to 300 bpm (from SpO_2) 30 to 300 bpm (from NIBP) 25 to 350 bpm (from IBP)

Accuracy:

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

 ± 1 bpm or ± 1 %, whichever is greater (from IBP)

Refreshing rate:

Operation mode: Manual, Auto, STAT, Sequence Systolic, Diastolic, Mean Systolic range Adu: 25 to 300 mmHa Ped: 25 to 240 mmHg Neo: 25 to 140 mmHg Diastolic range Adu: 10 to 250 mmHd

Ped: 10 to 200 mmHg Neo: 10 to 115 mmHa

Ped: 15 to 215 mmHa Neo: 15 to 125 mmHg Max mean error:±5 mmHg

Max standard deviation: 8 mmHg NIBP analysis:

1-ch (uMEC10), 2-ch (uMEC12)

0 to 50°C (32 to 122 °F) 0.1°C

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

IBP (for uMEC 12 only)

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

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

Impedance range:

C.O. (for uMEC 12 only)

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

C.O.: $\pm 5\%$ or ± 0.1 L /min, whichever is greater

TB. TI: +0.1°C (without sensor)

TB. TI: 0.1°C

CO. (for uMEC 12 only)

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

±0.2% (1 to 4.9%) ±0.3% (5 to 6.9%) ±0.5% (12 to 12.9%) Unspecified (over 20%)

Sample flowrate Accuracy: $\pm 15\%$ or ± 15 ml/min, whichever is greater Start-up time: <90s

When using adult water trap and 2.5 m adult sampling line

<5.5 s @120 ml/min When using neonatal water trap and 2.5 m neonatal sampling line <4.5 s @ 90 ml/min

AWRR range: AWRR precision: < 60rpm: ±1

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

Data Storage Trend data:

1200hrs (interval 10min), 120 hrs (interval 1 min), 4 hrs (interval 5 sec) Alarm events 1800 events and associated waveforms

128 Arr. events and associated waveforms Arr. events: Max. 48 hrs full disclosure waveforms Waveforms

Battery

1 Build-in chargeable Lithium-ion battery Voltage:

Capacity:

2500 mAh (5000 mAh optional) 4 hrs(2500 mAh), 8 hrs (5000 mAh) 2500 mAh: 4 hrsmaximum (power off) Recharge time 5000 mAh: 8 hrsmaximum (power off)

Interfacing

1 AC power connector

2 USB 2.0 connector

1 multifunctional output connector (output ECG nurse call and Defih

WiFi support: Yes, 5G/2.4G dual band Barcode Scanner Support Network printer

AC Voltage:

12.5mm/s, 25 mm/s, 50 mm/s

Trace:

Operating: 0 to 40°C(32 to 104 °F) Temperature: -20 to 60°C (-4 to 140 °F) 15 to 95 % (non condensing Humidity: Operating:

10 to 95 % (non condensing)

Operating: 427.5 to 805.5 mmHg (57.0 to 107.4 kPa) Barometric

100 to 240 VAC, 50/60Hz

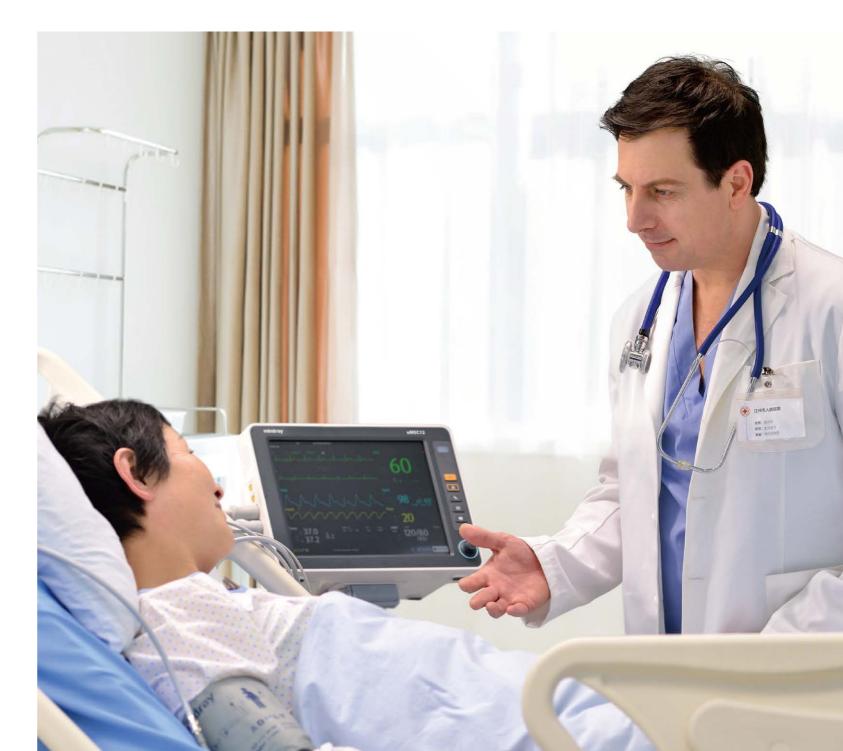
*Not all of the functions are available in all geographies, please contact with local Mindray sales





uMEC Patient Monitor

Taking high cost out of quality healthcare





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 greatly improves the accuracy of measurement and reduces false alarms
- NIBP quick-measurement technique reduces the discomfort caused by cuff inflation, especially for patients suffering from hypertension or hypotension
- Anti-interference SpO₂ algorithm provides accurate measurement even when the patient is mobile
- Large capacity for data storage enables comprehensive review of patient's history data, and external USB storage devices are also supported
- 8-hour continuous runtime with one Lithium-ion battery



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



Essentially advanced measurements

Huge data capacity

Long battery working time





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.

- 10.4 inch/12.1 inch high resolution LED screen with optional touch screen
- Supports various monitoring screen layouts for different clinical needs, including large font, full/half screen 7-lead monitoring, view other bed, etc.
- Default settings satisfy general clinical requirements, no need to adjust the settings before using and helps you get started quickly
- Statistics for heart rate changes and ambulatory blood pressure monitoring, making ups and downs visible
- Less than 3.5kg weight with battery makes it very portable
- Unique accessory cabinet makes accessories management effective
- One piece design makes cleaning easier







HR/BP Analysis

User-friendly Interfaces

Unique accessory cabinet



Durability

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 makes it environmentally friendly and reduces the risk of cross contamination
- Mindray accessories are highly reliable with quality material and production technique



High-quality Accessories



Drop protection



Compatible with multiple cleaning agents