Technical Specifications

uMEC10 Monitor size:

315mm x 155 mm x 220mm

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

uMEC12

345mm x160mm x 255mm

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

and a recorder

Display

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

1 display through VGA

Diagnostic Mode: 0.05-150Hz

Resolution: 800 x 600 pixels Waveforms: uMEC10: up to 7

FCG

External display:

Lead set: 3-lead: I, II, III

5-lead: I. II. III. aVR. aVI . aVF. V Automatic 3/5 - lead recognition 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

Monitor Mode: 0.5-40Hz Surgical Mode: 1-20Hz ST Mode: 0.05-40Hz

Defib.protection Withstand 5000V (360J)defibrillation

CMRR-

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

ST analysis: Range:-2.0 to 2.0 mV Accuracy: ± 0.02 mV or ± 10 %, whichever is greater (-0.8 to +0.8 mV)

Resolution: 0.01mV

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

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

Resolution: Accuracy:

±1 bpm or ±1%, whichever is greater HR analysis:

Respiration

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

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

0 to 6 rpm: Not specified

Sween speed:

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

Range:

0 to 100% Resolution:

±2% (70-100%, Adu/Ped) Accuracy:

Unspecified (0-69%)

Refreshing rate

Pulse Rate Accuracy:

20 to 300 bpm (from Sp∩) 30 to 300 bpm (from NIRP) +3 bpm (from SpO.)

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

Resolution: Refreshing rate:

Method: Automatic Oscillometric Operation mode Manual, Auto, STAT, Sequence Systolic, Diastolic, Mean Systolic range: Adu: 25 to 290 mmHg Ped: 25 to 240 mmHg

Neo: 25 to 140 mmHg

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

Adu: 15 to 260 mmHg Ped: 15 to 215 mmHg Neo: 15 to 125 mmHg

Accuracy: Max mean error:±5 mmHg

Max standard devia ion: 8 mmHq Resolution: 1 mmHg NIBP analysis:

Temperature

1-ch (uMEC10), 2-ch (uMEC12) Parameters: T1, T2 and TDRange: 0 to 50°C (32 to 122 °F) Resolution:

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

Data Storage

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

128 Arr. events and associated waveforms Arr. events:

Waveforms: Max. 48 hrs full disclosure waveforms

Battery Туре:

1 Build-in chargeable Lithium-ion battery 111 VDC

Voltage: 2500 mAh (5000 mAh optional) Capacity:

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

1 AC power connector 1 RJ45 network connector

2 USB 2.0 connector 1 VGA output connector

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

WiFi support: Yes, 5G/2.4G dual band Support

Barcode Scanner: Network printer: Support

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

Trace:

Power Requirement

100 to 240 VAC. 50/60Hz AC Voltage: Current:

Environmental Requirements

Operating: 0 to 40°C(32 to 104 °F) Temperature: -20 to 60°C (-4 to 140 °F) Storage:

Humidity: Operating: 15 to 95 % (non condensing) 10 to 95 % (non condensing) Barometric

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

www.mindray.com P/N:ENG-uMEC(basic)-210285X4P-20181128





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







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