Technical Specifications

Weight: uMEC12

315mm x 155 mm x 220mm ≤3.5kg, Standard parameters configuration, including a lithium battery

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

Resolution

IRP (for uMEC 12 only)

Monitor size Weight:

345mm x160mm x 255mm ≤4kg, Standard parameters configuration, including a lithium batter

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

800 x 600 pixels Resolution

External display: 1 display through VGA

Lead set:

3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, 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 Sween sneed

Diagnostic Mode: 0.05-150Hz Bandwidth: Monitor Mode: 0.5-40Hz Surgical Mode: 1-20Hz

ST Mode: 0.05-40Hz

Withstand 5000V (360J)defibrillation Recovery time: Diagnostic Mode: >90dB

CMRR:

Monitor, Surgical, ST Mode: >105dB ST analysis:

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

Yes, multi-lead, 24 classifications, including AF

QT analysis

Heart Rate Range:

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

±1 bpm or ±1%, whichever is greater

HR analysis

Range: Ped/Neo: 0 to 150 rpm

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

0 to 6 rpm: Not specified

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

0 to 100%

Resolution ±2% (70-100%, Adu/Ped) Accuracy Unspecified (0-69%)

Refreshing rate

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

±3 bpm (from SpO.)

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

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

Resolution

Refreshing rate

Accuracy

Method: Automatic Oscillometric Manual, Auto, STAT Operation mode **Parameters** Systolic range: Adu: 25 to 290 mmHd

Ped: 25 to 240 mmHd Adu: 10 to 250 mmHg Ped: 10 to 200 mmHo

Neo: 10 to 115 mmHo Ped: 15 to 215 mmHo Neo: 15 to 125 mmHg

Accuracy: Max mean error:±5 mmHg Max standard deviation: 8 mmHg

Resolution: NIBP analysis:

Temperature

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

Channel:

Parameters:

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

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

0 to 50°C (32 to 122 °F)

C.O. (for uMEC 12 only)

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

Accuracy: C.O.: ±5% or ±0.1 L/min, whichever is greater TB.Tl: +0.1°C (without sensor)

CO, (for uMEC 12 only)

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

Accuracy

±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, 120 ml/min (Sidestream

Sample flowrate: Start-up time:

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 AWRR precision 60-150 rpm: +7

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

Data Storage Trend data:

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

128 Arr. events and associated waveforms

Max. 48 hrs full disclosure waveforms Waveforms

Battery Type:

1 Build-in chargeable Lithium-ion battery Voltage: 2500 mAh (5000 mAh optional) 4 hrs(2500 mAh), 8 hrs (5000 mAh) Run time Recharge time 2500 mAh: 4 hrsmaximum (power off) 5000 mAh: 8 hrsmaximum (power off)

Interfacing

1 AC power connector 1 R I45 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

Barcode Scanner: Network printer

Type:

12.5mm/s, 25 mm/s, 50 mm/s Speed: Trace:

Power Requirement

AC Voltage: 100 to 240 VAC, 50/60Hz

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

10 to 95 % (non condensing) Storage 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-210285X4P-20180426

©2018 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved





uMEC

Patient Monitor

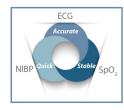
Taking high cost out of quality healthcare





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



1200 hours trends 1800 alarms 1600 NIBP 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



High 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