





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

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

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
- 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 carbinet



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

Technical Specifications

Monitor size

315mm x 155 mm x 220mm

Weight:

\$3.5kg, Standard parameters configuration, including alithium battery and a recorder

uMEC12

345mm x160mm x 255mm s4kg, Standard parameters configuration,including allthium batter and a recorder Weight:

Display Resolution:

uMEC10: 10.4" color LED uMEC12: 12.1" color LED 800 x 600 pixels uMEC10: up to 2

Waveforms

uMEC12: up to 8 1 display through VGA

ECG

Lead set:

Gain:

Sweep speed: Bandwidth:

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 Monitor Mode: 0.5-40Hz

Surgical Mode: 1-20Hz ST Mode: 0.05-40Hz Withstand 5000V (360J)defibrillation

Defib.protection:

Recovery time: CMRR:

Diagnostic Mode: >90rlB

Diagnostic Modes - 990B Monitor, Surgical, ST Modes > 105dB Ranges-20 to 2.0 mV Accuracy: ±0.02 mV or ±10 %, whichever is greater (-0.8 to +0.8 mV) Resolution: 0.01 mV

Arr analysis: Yes, multi-lead, 24 classifications

Heart Rate

Adu: 15 to 300 bpm Ped/Neo: 15 to 350 bpm 1 bpm Range:

Resolution:

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

HR analysis:

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

Lead:

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

SpO,

0 to 100% Range: Resolution:

±2% (70-100%, Adu/Ped) ±3% (70-100%, Neo) Unspecified (0-69%)

Refreshing rate:

Pulse Rate

Range:

20 to 300 bpm (from SpO.)

Accuracy:

20 to 300 bpm (from SpU) 30 to 300 bpm (from NIBP) 25 to 350 bpm (from IBP) ±3 bpm (from SpU) ±3 bpm or ±3%, whichever is greater (from NIBP) ±1 bpm or ±1%, whichever is greater (from IBP)

Refreshing rate:

Method Operation mode Parameters: Systolic range:

Automatic Oscillometric Manual, Auto, STAT Systolic, Diastolic, Mean 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

Diastolic range

Neo: 10 to 115 mmHg Ady: 15 to 260 mmHg Ped: 15 to 215 mmHg Neo: 15 to 125 mmHg

Accuracy:

Max mean error:±5 mmHg Max standard deviation NIBP analysis:

Temperature

Mean range:

Channel 1-ch (uMEC10), 2-ch (uMEC12) Parameters:

T1, T2 and TD 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 Range: -50 to 300 mmHa

Resolution:

-30 to 300 mining ±296 or ±1 mmHg, whichever is greater (without sensor) 5 μVV/mmHg 300 to 3000Ω Accuracy: Sensitivity

Impedance range

C.O. (for uMEC 12 only)

Range:

C.O.: 0.1 to 20 L/min TB: 23 to 43°C TI:0 to 27°C

TBJ to 27 C. CO: ±5% or ±0.1 L /min, whichever is greater TB, TI: ±0.1 °C (without sensor) C.O: 0.1 L/min Accuracy:

Resolution: TR TE 0.1%

CO₂ (for uMEC 12 only)

Sidestream, Low flow

Range:

Sidestream, Low flow
0 to 20% (0-152mmHg under standard atmospheric pressure)
±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%)
±0.5% (13 to 12.9%)
±(0.43%+8%tel) (13 to 20%)
Unspecified (over 20%)
90, 120 ml/min (Sidestream)
50 pat (size 4.5%)

Sample flowrate: 50, 120 ml/min (Sidestream) 50 ml/min (Low flow) 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 $<5.5 \text{ s} \otimes 120 \text{ ml/min}$ Response time:

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

<.4.5 s @ 90 m/min
When using low flow accessories
<.5 s @ 50 ml/min
0 to 150 rpm
<.60 rpm: ±1
60-150 rpm: ±2

AWRR range: AWRR precision

Appea time 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s

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: NIBP:

1600 measurements Max. 48 hrs full disclosure waveforms Waveforms:

Battery

Type: Voltage: 1 Build-in chargeable Lithium-ion battery

15 build-in chargeapie Lithium-ion batt 11.1 VPC 2500 mAh (5000 mAh optional) 4 hrs(2500 mAh), 8 hrs (5000 mAh) 2500 mAh/4 hrsmaximum (power off) 8 hrsmaximum (power off) Capacity: Run time

Interfacing

AC power connector RJ45 network connector 2 USB 2.0 connector

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

Synch. Signals) Yes, 5G/2.4G dual band

Barcode Scanner Network printer

Recorder

WiFi support:

Type:

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

Power Requirements

100 to 240 VAC, 50/60Hz 1.5 A

Environmental Require

Temperature: Storage: Humidity: Operating:

Storage Barometric

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

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