

MINDRAY EPM 10A



ABOUT

The Mindray ePM 10A is a 10.1-inch capacitive touchscreen patient monitor for adult, pediatric, and neonatal patients in general wards, emergency departments, and perioperative care settings. It monitors 3- and 5-lead ECG with arrhythmia analysis and Afib detection, Masimo SET SpO₂, NIBP, respiration, and temperature. Optional integrated sidestream CO₂ monitoring is available for respiratory assessment. The monitor stores 48 hours of full disclosure waveforms and up to 120 hours of trend data at 1-minute resolution. It supports HL7 and DIAP protocols for EMR integration.

FEATURES

- **Capacitive Touchscreen:** 1280 x 800 pixel resolution with multi-gesture support; reaches 98% of monitoring functions in 2 touches or less.
- **Standard Parameters:** 3- and 5-lead ECG, Masimo SET SpO₂, NIBP, impedance respiration, and dual temperature channels.
- **Optional CO₂:** Integrated sidestream CO₂ module (0–150 mmHg range, ±2 mmHg accuracy 0–40 mmHg) for EtCO₂ and FiCO₂ monitoring.
- **Waveform Capacity:** Displays up to 8 standard waveforms; supports 48 hours of storage.
- **Connectivity:** HL7 and DIAP protocol support for EMR and external device integration; standard RJ45 Ethernet, 2 USB ports, VGA output, and multifunctional RS232 connector.
- **Construction:** IPX1 rated; constructed with industry-standard plastics compatible with medical-grade cleaners; concealed handle for transport.



SPECIFICATIONS



DISPLAY

Screen Type: 10.1-inch capacitive, multi-point color touchscreen

Resolution: 1280 x 800 pixels

Wide Angle View: $\geq 170^\circ$

Quick Keys: Up to 18 configurable quick keys

PHYSICAL SPECIFICATIONS

Width: 10.6 in (27.1 cm)

Height: 8.9 in (22.6 cm)

Depth: 6.8 in (17.3 cm)

Maximum Weight: 4.0 kg (standard configuration with recorder, excluding battery and accessories)

Weight: 3.2 kg (excluding battery, accessories, and recorder)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: 0 to 40 °C

Operating Relative Humidity: 15 to 95% (noncondensing)

Operating Barometric Pressure: 427.5 to 805.5 mmHg (57 to 107.4 kPa)

Storage Temperature: -20 to 60 °C

Storage Relative Humidity: 10 to 95% (noncondensing)

Storage Barometric Pressure: 120 to 805.5 mmHg (16 to 107.4 kPa)

Ingress Protection Rating: IPX1 (protected against vertically falling water drops)

POWER SUPPLY

Line Voltage: 100 to 240 VAC ($\pm 10\%$)<

Input Current: 2.0 to 0.9 A<

Frequency: 50/60 Hz (± 3 Hz)

Battery Type: Rechargeable lithium-ion battery (10.95 V, 5200 mAh)<

Battery Runtime: ≥ 4 hours (with new fully-charged battery, 5-lead ECG and SpO₂ connected, auto NIBP at 15-minute intervals, brightness set to 1)

Battery Charge Time: ≤ 5 hours to 90% (monitor off); ≤ 10 hours to 90% (monitor on)

RECORDER SPECIFICATIONS

Method: Thermal dot array

Horizontal Resolution: 16 dots/mm (25 mm/s paper speed)

Vertical Resolution: 8 dots/mm

Paper Width: 50 mm ± 1 mm

Paper Length: 20 m

Paper Speed: < 25 mm/s, 50 mm/s ($\pm 5\%$ accuracy)

Waveform Channels: Maximum of 3

MONITOR INTERFACE SPECIFICATIONS

AC Power Input: 1

Network Connector: 1, standard RJ45 connector, 100 Base-TX, IEEE 802.3

USB Connectors: 2, USB 2.0

Multifunctional Connector: 1 (outputs analog ECG, defibrillator synchronization signals, RS232 communication)