

PM-8000Express

Patient Monitor

Technical specifications

Safety

IEC60601-1 approved

Dimension and Weight

Dimension: 261mm (W) x 240mm (H) x 171mm (D)
Weight: < 5 kg (including a battery)

Operation Environment

AC Power Requirements: 100-240 VAC (± 10%), 50/60 Hz (± 3 Hz), 110 VA
Temperature: 0-40°C
Humidity: 15% - 95%, non-condensing

Patient Range

Neonate, pediatric, and adult patients

Performance Specifications

Display: 8.4" color TFT
Rolling and refreshing waveform display
Resolution: 800x600
Multiple display modes, including:
Standard display
Large-font Display
Trend split display
Freeze display with 40-second full-disclosure
Alarm limit display
Multi-lead and ECG simultaneous display
Bed-to-bed view display
OxyCRG dynamic view display

Trace: 8 waveforms
Sweep Speed: 6.25mm/s, 1.25mm/s, 25mm/s, 50mm/s

Indicator: Alarm indicator light
Power indicator light
Battery indicator light
QRS beep and alarm sound

Interface: Parameter cable interface
AC Power input socket
Software upgrade through networking port
External VGA interface for connection of an alternate display
Aux Output (Analog / Defib-Synch / Nurse Call)

Lithium Ion Battery: Rechargeable, maximum 6.5 hours for charging, 3 hours for continuous working

Trend time: 1-96 hours

Alarm: User-adjustable High and Low limits 3-level audible and visual alarm

Networking: Connected to central monitoring System (be available soon in US market)

Recorder: Built-in, thermal array
Plethysmogram waveform: 2 channels
Record mode: manual, on alarm, time-defined, etc.
Record width: 50mm
Print speed: 25mm/s, 50mm/s

ECG

5-lead and 3-lead selectable
Input: 5-lead: RA; LA; RL; LL; V
I; II; III; aVR; aVL; aVF; V1-V6
Lead selection:
ECG waveform:
Gain selection:
Sweep speed:
Heart Rate range:
Accuracy:
Resolution:
Filter:

Protection: Surgical mode: 1-20Hz
Withstand 4000VAC/50Hz voltage in isolation
Against electrosurgical interference and defibrillation

Scaling signal: 1mV5%

Alarm range: 15-350bpm

Alarm: YES, audible and visual alarm, alarm events recallable

Respiration

Method: Thoracic impedance

Sensing leads: Lead I and lead II are optional (default: lead II)

Operation modes: Auto/ Manual

Measurement range: Adult: 0-120rpm; Neonate/Child: 0-150rpm

Apnea alarm: YES

NIBP

Method: Automatic oscillometric

Operation modes: Manual/Automatic/Continuous

Auto measure time: Adjustable

Measurement unit: mmHg/kPa selectable

Measurement types: Systolic, Diastolic, Mean

Measurement range:

Range of systolic pressure	Adult Mode	40 - 270 mmHg
	Pediatric Mode	40 - 200 mmHg
	Neonatal Mode	40 - 135 mmHg
Range of diastolic pressure	Adult Mode	10 - 210 mmHg
	Pediatric Mode	10 - 150 mmHg
	Neonatal Mode	10 - 95 mmHg
Range of mean pressure	Adult Mode	20 - 230mmHg
	Pediatric Mode	20 - 165mmHg
	Neonatal Mode	20 - 110mmHg

Over-pressure protection: double safety protection

Resolution: 1mmHg

Alarm: Systolic, Diastolic, Mean mean error +/- 5mmHg

Accuracy: Standard deviation 8mmHg

SpO₂

MINDRAY SpO₂:

Measurement range: 0-100%

Resolution: 1%

Accuracy: ± 2% (70-100%, Adult/Pediatric); ± 3% (70-100%, Neonate); 0-69% unspecified

Alarm range: 0-100%

Pulse rate: Range: 20-254bpm
Resolution: 1bpm
Accuracy: ± 3bpm ± 5bpm
Alarm range: 20-254bpm

MASIMO SpO₂

Measurement range: 0-100%

Resolution: 1%

Accuracy: ± 2% (70-100%, Adult/Pediatric, non-motion); ± 3% (70-100%, Neonate, non-motion); ± 3% (70-100%, Adult/Pediatric/Neonate, motion); 0-69% unspecified

Alarm range: 0-100%

Pulse rate: Range: 25-240bpm
Resolution: 1bpm
Accuracy: ± 3bpm (non-motion), ± 5bpm (motion)
Alarm range: 25-240bpm

NELLCOR SpO₂

Measurement range: 0-100%

Resolution: 1%

Accuracy: ± 2% (70-100%, MAX-A, MAX-AL, MAX-N, MAX-R, MAX-land, MAX-FAST sensors); ± 2.5% (70-100%, OxiCliq A, OxiCliq N, OxiCliq P and OxiCliq I sensors); ± 3% (70-100%, D-YS, DS-100A, OXI-A/N and OXI-P/I sensors); ± 3.5% (70-100%, MAX-R, D-YSE And D-YSPD sensors);

0-69% unspecified

Alarm range: 0-100%

Pulse rate: Range: 20-300bpm
Resolution: 1bpm
Accuracy: ± 3bpm (20-250bpm); 251-300bpm unspecified
Alarm range: 20-250bpm

Temperature

Measurement range: 0-50°C

Resolution: 0.1°C

Accuracy: ± 0.1°C

Channel: Dual-channel. Provide T1; T2; Δ T

IBP

Measurement range: -50-300mmHg

Channel: 2 channels

Pressure transducer: Sensitivity: 5V/V/mmHg
Impedance range: 300-3000 Ohm
ART, PA, CVP, RAP, LAP, ICP, CPP

Pressure names: 1mmHg

Resolution: ± 2% or ± 1 mmHg, whichever is greater (exclusive of transducer)

Accuracy: ± 2% or ± 1 mmHg, whichever is greater (exclusive of transducer)

Alarm range: -50-300mmHg

Microstream CO₂

CO₂ range: 0-99mmHg

Accuracy: 0-38 mmHg ± 2 mmHg
39-99 mmHg ± 5% of reading + 0.08% for every 1 mmHg (above 38 mmHg)

Resolution: Waveform: 0.1mmHg
Value: 1 mmHg

Sampling rate: 50ml/min - 7.5+15ml/min

Initialization time: 30 seconds (typical), Reaches ± 5% steady-state accuracy within 3 minutes.

Response time: Typical value: 2.9s, including the rising time and the delay time (adopting the FilterLine of standard length) Rising time < 190ms (rising from 10% to 90%) Delay time = 2.7s (typical value)

Respiration rate: 0-150 breaths/min

Respiration rate accuracy: 0 70bpm ± 1bpm
71 120bpm ± 2bpm
121 150bpm ± 3bpm

Mode: Adult, Neonate

Standard configuration:

ECG, RESP, Dual-Temperature, SpO₂, NIBP, Li-ion Battery

Options:

Dual-IBP, EtCO₂, Thermal Recorder

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Taking high cost out of quality healthcare



PM-8000Express

Patient Monitor





Parameters: ECG, RESP, NIBP, SpO₂, 2-TEMP, 2-IBP, EtCO₂

MINDRAY™ PM-8000Express
PATIENT MONITOR

- 8.4" color TFT display with maximum 8 waveforms
- MasimoSET™ / Nellcor OxiMax™ / Mindray SpO₂
- Microstream™ EtCO₂ (Oridion)
- Maximum 96-hour graphic and tabular trends of all parameters
- Large font display mode
- SpO₂ pulse-tone modulation (Pitch Tone)
- 40-second full-disclosure waveform review
- Alarm light indicator
- Flash memory card option
- Li-ion battery
- Suitable for adult, pediatric and neonatal patients

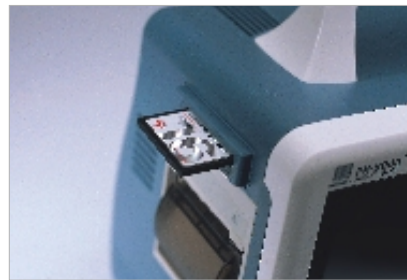


Microstream™ EtCO₂

Suitable for non-intubated and intubated applications
For adult, pediatric, infant/neonate patients
Low sampling rate 50ml/min (± 7.5ml/min)



Wall Mount



Memory Card

Provides power off storage for 96-hour graphic and trend, 800 NIBP records and 70 alarm records

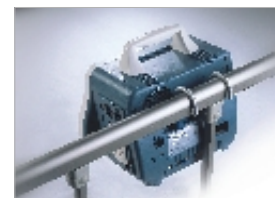


Bedrail Clamp

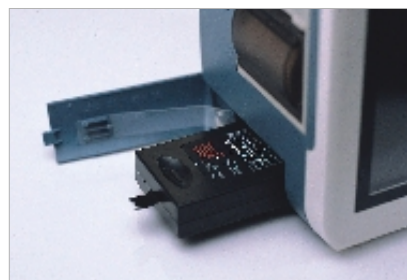


Rear Panel

Ethernet Receptacle
AUX port (for Analog/ Nurse Call/ Defib-Synch output)

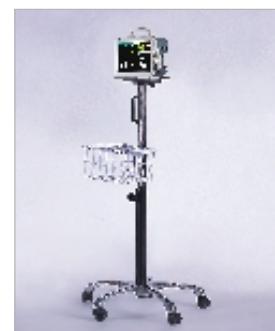


Bedrail Hook



Li-ion Battery

Up to 3-hour continuous monitoring



Rolling Stand



Large Font Display Mode

Basic parameters (ECG, SpO₂, NIBP) in large font for distance view



"Viewbed Screen" Mode

View patient data from another monitor with a simple LAN connection



"Trend Screen" Mode

Dynamic 2-hour trend data viewed next to real-time waveform data



OxyCRG

Display of the interactive relation between heart rate, respiration and Oxygen parameter