

# PM-7000

## PORTABLE PATIENT MONITOR

### Technical Specifications

<b>Safety</b> Meet the requirements of IEC60601 serials, CE marking according to MDD93/42/EEC	<b>Pace Detection:</b> YES <b>Alarm:</b> YES, audible and visual alarm, alarm events recallable	***** Neonates *70% to 100% ±3 digits ***** 1% to 69% unspecified
<b>Dimension and Weight</b> Dimension: 310mm (W) x 280mm (H) x 150mm (D) Weight: 5.5kg (not including external Multi-gas module)	<b>Respiration</b> Method: RA-LL impedance Measurement range: Adult: 6-120rpm Pediatric/Neonatal: 6-150rpm	<b>Pulse rate:</b> 20 to 250 bpm ±3 digits <b>IBP</b> Measurement range: -50~300mmHg Channel: 2 channels
<b>Operation Environment</b> Power: AC100-250V, 50/60 Hz Temperature: 0-40°C Humidity: 15-95%	<b>Accuracy:</b> ±2 rpm <b>Alarm range:</b> Adult: 6-120rpm Pediatric/Neonatal: 6-150rpm	<b>Pressure transducer:</b> Sensitivity: 5 μV/V/mmHg Impedance range: >300 <b>Transducer sites:</b> ART, PA, CVP, RAP, LAP, ICP <b>Measurement unit:</b> mmHg/kPa selectable <b>Resolution:</b> 1mmHg <b>Accuracy:</b> ±1mmHg or ±2%, whichever is greater <b>Alarm range:</b> -10~300mmHg
<b>Patient Range</b> Adult, pediatric and neonatal	<b>Apnea alarm:</b> YES <b>NIBP</b> Method: Oscillometric Operation modes: Manual/Automatic/STAT Measurement unit: mmHg/kPa selectable Measurement types: Systolic, Diastolic, Mean Measurement range: Adult: 10-270mmHg Pediatric: 10-200mmHg Neonatal: 10-135mmHg	<b>CO</b> Method: Thermo dilution Measurement range: CO: 0.1-20 lit./min. TB: 23-43°C TI: 0-27°C <b>Resolution:</b> CO: 0.1 lit./min. Temperature: ±0.1°C CO: 2% TB: ±0.1°C TI: ±0.1°C
<b>Performance Specifications</b> Display: 10.4" color TFT Resolution: 800x600 Trace: 8 waveforms Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s Indicator: Alarm indicator Power indicator QRS beep and alarm sound	<b>Over-pressure protection:</b> YES <b>Resolution:</b> 1mmHg <b>Accuracy:</b> Mean error and standard deviation per ANSII/AAMI SP-10 Systolic, Diastolic, Mean	<b>EiCO2</b> Method: Infrared Absorption Measurement Mode: Sidestream or mainstream (optional) Measurement range: EtCO2: 0-99mmHg InsCO2: 0-99mmHg AwRR: 0-150rpm EtCO2: 1mmHg InsCO2: 1mmHg AwRR: 1rpm <b>Accuracy:</b> CO2 concentration: ±2mmHg (0-40mmHg) ±5% of reading (41-76mmHg) ±10% of reading (77-99mmHg) AwRR: ±2rpm <b>Alarm range:</b> Same as Measurement range <b>Apnea alarm:</b> YES <b>External Multi-Gas/O2</b> Method: Infrared Absorption Gas sorts: EtCO2, N2O, Des, Iso, Enf, Sev, Hal O2 (optional, paramagnetic sensor) Measurement range: EtCO2: 0-10% (0-76mmHg) N2O: 0-100% O2: 0-100% Enf, Iso, Hal: 0-5% Sev: 0-8% Des: 0-18% AwRR: 2-100rpm CO2: 0.1% (1mmHg) N2O: 1% O2: 0.1% (1mmHg) Enf, Iso, Hal, Sev, Des: 0.01% Resp rate: 1bpm
<b>Interface:</b> Net Port <b>Battery:</b> Rechargeable Lead-Acid: >45 minutes Lithium-ion: >90 minutes <b>Trend time:</b> 1-96 hours <b>Alarm:</b> 10-level audible and visual alarm <b>Networking:</b> LAN/Wireless LAN to Mindray Hypervisor III central station <b>Wireless LAN:</b> Operates on license free ISM (Industrial, Scientific and Medical) 2.4 ~ 2.483 GHz radio frequency band IEEE 802.11b compliant <b>Recorder:</b> Built-in, thermal array, 2 channels Record width: 48mm, (record paper 50mm) Record speed: 25mm/s, 50mm/s	<b>Alarm:</b> YES <b>Temperature</b> Measurement range: 0-50°C <b>Resolution:</b> 0.1°C <b>Accuracy:</b> ±0.1°C (not including probe) <b>Channel:</b> Dual-channel <b>Alarm range:</b> 0-50°C <b>Mindray SpO2</b> Measurement range: 0-100% <b>Resolution:</b> 1% <b>Accuracy:</b> 70-100% ±2%; 0-69% unspecified <b>Alarm range:</b> 0-100% <b>Pulse rate</b> Range: 0-254bpm Resolution: 1bpm Accuracy: ±2bpm (30-250bpm) Alarm range: 0-254bpm	<b>Resolution:</b> CO2 concentration: ±2mmHg (0-40mmHg) ±5% of reading (41-76mmHg) ±10% of reading (77-99mmHg) AwRR: ±2rpm <b>Alarm range:</b> Same as Measurement range <b>Apnea alarm:</b> YES <b>External Multi-Gas/O2</b> Method: Infrared Absorption Gas sorts: EtCO2, N2O, Des, Iso, Enf, Sev, Hal O2 (optional, paramagnetic sensor) Measurement range: EtCO2: 0-10% (0-76mmHg) N2O: 0-100% O2: 0-100% Enf, Iso, Hal: 0-5% Sev: 0-8% Des: 0-18% AwRR: 2-100rpm CO2: 0.1% (1mmHg) N2O: 1% O2: 0.1% (1mmHg) Enf, Iso, Hal, Sev, Des: 0.01% Resp rate: 1bpm
<b>ECG</b> 5-lead or 3-lead selectable Input: 5-lead: RA; LA; RL; LL; V or R; L; N; F; C 3-lead: RA; LA; LL or R; L; F Lead selection: 5-lead: I; II; III; aVR; aVL; aVF; Vx I, II, III, aVR, aVL, aVF, V (n) 3-lead: I; II; III ECG waveform: 2 channels Gain selection: x0.25; x0.5; x1; x2(mm/mV); auto Sweep speed: 12.5mm/s, 25mm/s, 50mm/s Heart Rate range: Adult: 15-300bpm; Pediatric/Neonatal: 15-350bpm <b>Accuracy:</b> ±1bpm or ±1%, whichever is greater <b>Protection:</b> Withstand 4000VAC/50Hz voltage in isolation. Against electro-surgical interference and defibrillation <b>CMRR:</b> Diagnostic mode: >90dB Monitoring mode: >105dB Operating mode: >105dB <b>Operation modes:</b> Diagnostic, Monitor, Surgery <b>Bandwidth:</b> 0.05-100Hz <b>Alarm range:</b> Adult: 15-300bpm Pediatric/Neonatal: 15-350bpm <b>S-T detection:</b> YES Measurement range: -2.0mV~2.0mV Alarm range: -2.0mV~2.0mV <b>Arrhythmia analysis:</b> YES	<b>Masimo SET™ SpO2</b> Range Saturation (SpO2): 1-100% <b>Pulse Rate:</b> 30-235 bpm Adult SpO2 Range: 70%-100% 0% to 69% <b>Accuracy (±1 Std. Dev.):</b> ±2 digits Unspecified <b>Pulse Rate Range:</b> 25-240 bpm <b>Accuracy (±1 Std. Dev.):</b> ±3 bpm Neonate SpO2 Range: 70%-95% 0% to 69% <b>Accuracy (±1 Std. Dev.):</b> ±3 Digits Unspecified <b>Pulse Rate Range:</b> 30-235 bpm <b>Accuracy (±1 Std. Dev.):</b> ±3 bpm <b>Nellcor SpO2</b> Measurement Range SpO2: 1% to 100% <b>Pulse Rate:</b> 20 to 250 beats per minute (bpm) <b>Accuracy</b> Saturation (% SpO2 ± SD): ***** Adults *70% to 100% *±2 digits	<b>Data output:</b> Fi and Et Values <b>Respiration rate:</b> 4-60±1bpm <b>Other:</b> Up to 3 waveforms displayed Agent mixture detection MAC value displayed

\* Testing is based on healthy adult volunteers in induced hypoxia studies with LNOP® Adt sensors; during no motion.  
Testing to verify saturation specification is done against a CO-Oximeter. Testing to verify pulse rate specification is done against an ECG monitor.  
\*\* Languages: Chinese, English, French, German, Italian, Spanish, Portuguese, Polish, Russian, Turkish, Czechish

**Standard configurations:** ECG/RESP, NIBP, Mindray SpO2, TEMP, Battery  
**Optional configurations:** Masimo SET™ SpO2, 2-IBP, CO, EtCO2, External Multi-Gas/O2, Thermal Recorder



Address: Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen, P. R. China, 518057  
Tel: +86 755 26582888, 26582492  
Fax: +86 755 26582500, 26582501  
E-mail: intl-market@mindray.com.cn  
[www.mindray.com.cn](http://www.mindray.com.cn)

**DISTRIBUTOR:**  
Artemis Medical Ltd,  
Butterly Avenue, Questor Business Park,  
Dartford, Kent DA1 1JG  
Tel: 01322 628877 • Fax: 01322 628878  
Email: info@artemismedical.co.uk  
Web: www.artemismedical.co.uk

NOTE: specifications subject to change without prior notice  
P/N: CHN-PM7000-420285-20041013

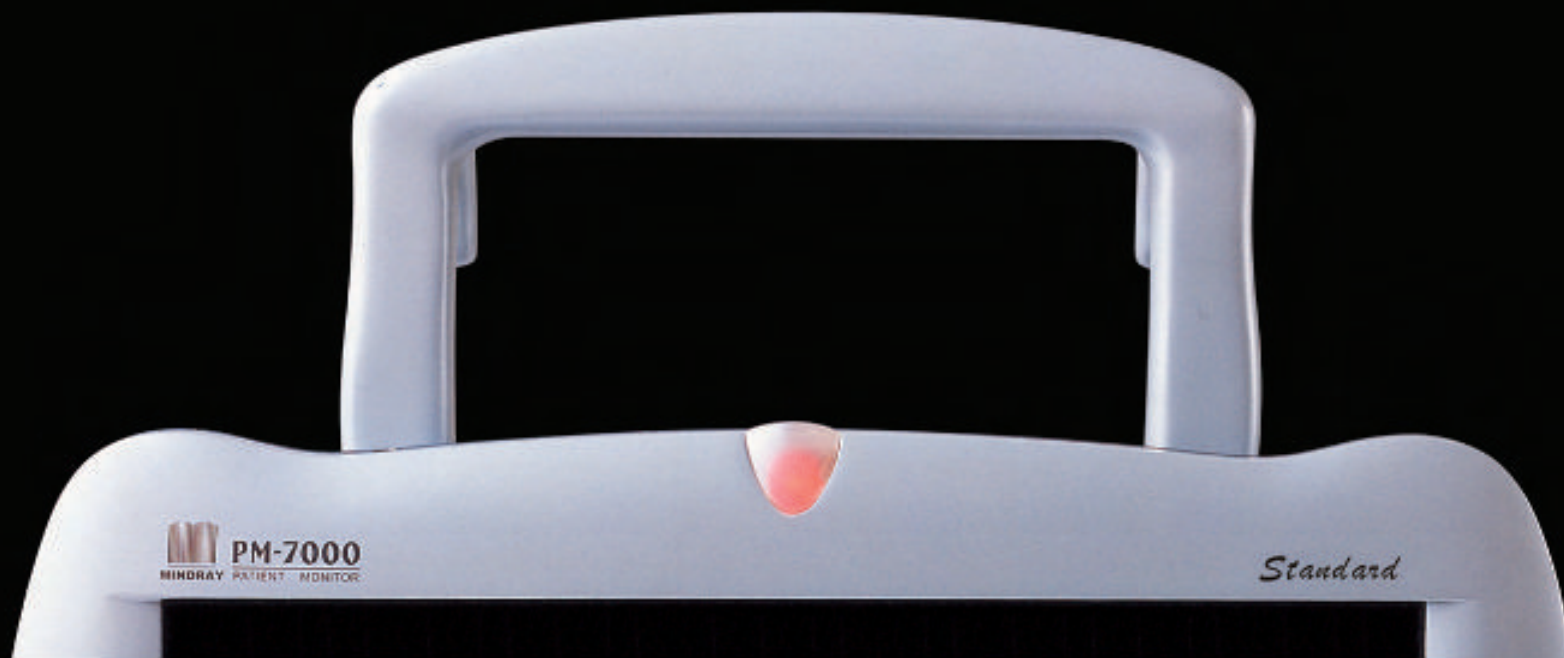


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## PORTABLE PATIENT MONITOR







10.4"color TFT with maximum 8 waveforms

Masimo and Nellcor SPO<sub>2</sub> optional

SpO<sub>2</sub> pulse-tone modulation (Pitch Tone)

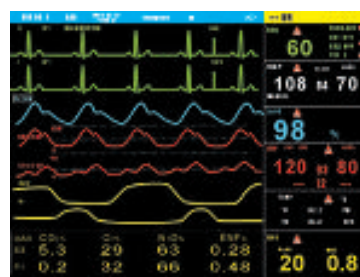
Adjustable 10-level alarm sound

Nurse call connection available

Optional Li-ion battery

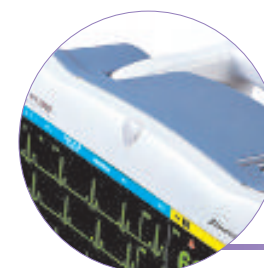
Large numeric for visibility from distance

LAN/ Wireless LAN connection



**Multi-Gas/O<sub>2</sub> Measuring**

Adopting infrared absorption technique to measure the concentration of EtCO<sub>2</sub>, N<sub>2</sub>O and five other anesthesia gases, including Des, Iso, Enf, Sev, Hal. O<sub>2</sub> is also available.



**Alarm light**

Illuminates when an alarm is triggered with conspicuous color: yellow or red



**Wireless LAN**

Wireless solution for Central Monitor system



**Handle/bedrail hook**

Bedrail hook with slide proof design



**External Multi-GAS module**



**Large Color Display**

10.4"color TFT display with 8 waveforms and values of parameters in large size, featured by high resolution and particular design.



**Trend Graph**

Comprehensive review of monitoring information obtaining access to 72-hour trend graph of all parameters and 40" full-disclosure waveforms



**Comprehensive Arrhythmia Review**

Display of real-time waveforms and vital data produced prior to, during and after the occurrence of Arrhythmia events

