

# ZONCARE

## PM-7000D

### Multi-parameter Bed-side Patient Monitor



#### Overview

##### Application

Adult/Pediatric/Neonatal/Medicine/Surgery/  
Operating Room/ICU/CCU

##### Features

Light & handy

##### Measurement

ECG/ SpO<sub>2</sub>/NIBP/HR&PR/Temp/Resp

##### Network

Wire/wireless network & online update

##### Triplex alarms

Light/Message/Sound (support real voice)  
(High/medium/low levels adjustable)

Electrode Disconnection Alarm (Diagram)

##### Vista Operating System

Easy operation/stable performance

##### Electrotome/defibrillation tolerance

Restore within 5 seconds after defibrillation

##### Power Supply:

AC & DC

##### Data Storage

Trend diagram/table: 720h

NIBP review: 10000 events

Wave review: 12h

Alarm review: 200 alarm events

Support drug concentration titration analysis

#### Physical Specification

##### Dimension & weight

Equipment:

310mm×150mm×285mm; 4 kg

Package:

410mm×280mm×360mm; 6 kg

##### Monitor

12.1" real color TFT screen

##### Battery

2.6Ah12V

1h operating after full charge

5min operating after low battery alarm

##### Electrical Power

AC: 100 ~ 240V, 50Hz/60Hz

DC: Built-in rechargeable battery

##### Environmental Conditions

###### Temperature:

Working 0 ~ 40°C

Storage -20 ~ 55°C

###### Humidity:

Working 15% ~ 80%

Storage 10% ~ 90%

###### Pressure:

Working 86.0 kPa ~ 106.0kPa

Storage 86.0 kPa ~ 106.0kPa

#### Technique Specification

##### ECG

5 Leads: RA, LA, LL, RL, V

Lead mode: I, II, III, AVR, AVL, AVF, V

Gain: ×1.25mm/mV, 2.5mm/mV,

5.0mm/mV, 10mm/mV,

20mm/mV (error≤5%)

Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s,

50mm/s (error≤±10%)

Bandwidth: Surgery 1 ~ 25 Hz

Monitor 0.5 ~ 40 Hz

Diagnostic 0.05 ~ 130 Hz

Sensitivity: >200 μV P-P

CMRR: ≥112dB

Differential Input Impedance: >5M ohm

Electrode Offset Potential: ±300mV

Polarization Voltage: ≥±500mV

Input Impedance: ≥5 M

Calibration Voltage: 1mV±5%

ST Segment Range:

-2.0mV ~ +2.0mV (accuracy 0.02mV)

Double Insulation Protection

(4000VAC/50Hz)

Defibrillation tolerance

High frequency electrotome tolerance

AC and Drift tolerance

Support heart Pace-making Analysis

13 Arrhythmia Analysis:

Asystole, V-Fibrillation/Tachycardia,

Single/Paired/Multiform PVC, Bigeminy,

Trigeminy, Polycardia, P-0N-T,

Bradycardia, Leaky-wave, Pacemaker

not captured, Pacemaker failure

##### SpO<sub>2</sub> (Masimo)

Measurement range: 0 ~ 100%

Resolution: 1%

Accuracy: 70% ~ 100% ±2%

40% ~ 69% ±3%

Pulse rate:

Measure/alarm range 20 ~ 300bpm

Resolution 1bpm

Accuracy ±3bpm

##### NIBP

Method: Oscillometry

Measure mode: Manual, Auto, STAT

Measure interval in auto mode:

1~5/10/15/30/60/90/120/180/240/480min

Measure period in STAT mode: 5min

Pulse rate range: 40 ~ 240bpm

Measure & alarm range:

Adult mode

SYS 40 ~ 280mmHg

DIA 10 ~ 220mmHg

MEAN 20 ~ 240mmHg

Pediatric mode

SYS 40 ~ 220mmHg

DIA 10 ~ 160mmHg

MEAN 20 ~ 170mmHg



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## PM-7000D

### Multi-parameter Bed-side Patient Monitor

#### Neonatal mode

SYS	40 ~ 135mmHg
DIA	10 ~ 100mmHg
MEAN	20 ~ 110mmHg

#### Static pressure measurement

Range:	0 ~ 300mmHg
Accuracy:	±3mmHg

Resolution: 1mmHg

Accuracy:

Max. Mean Error ±5mmHg

Max. Standard Deviation 8mmHg

#### Overpressure protection:

Adult	300mmHg
Pediatric	240mmHg
Neonatal	150mmHg

#### Heart/Pulse Rate

Measure range:

Adult	15 ~ 300 bpm
Neonatal/Pediatric	15 ~ 350 bpm

Accuracy: ±1%

Resolution: 1 bpm

#### Temp

Channel	2
Measure & alarm range	0 ~ 50°C
Resolution	0.1°C
Accuracy (no sensor)	±0.1°C (0~50°C)

#### Resp

Method:	impedance between RA-LL
Resp Impedance range:	0.3 ~ 3Ω
Base Impedance range:	200Ω ~ 4000Ω
Bandwidth:	0.3 ~ 2.5Hz
Gain:	×0.25, ×0.5, ×1, ×2, ×4
Resp rate:	
Measurement Range	
Adult	0 ~ 120BrPM
Neonatal/Pediatric	0 ~ 150BrPM

Resolution:	1BrPM
Accuracy:	7 ~ 150BrPM (±2BrPM) 0 ~ 6BrPM (unspecified)
Apnea Alarm:	10 ~ 40s

#### IBP (optional)

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#### EtCO<sub>2</sub> (optional)

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#### Anesthesia Depth (optional)

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#### Anesthetic Gases (optional)

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#### System Inputs & Outputs

NIBP/SpO<sub>2</sub>/Temp/ECG/IBP Sensor Sockets  
RJ45 port

#### Standard Package

PM-7000D main unit  
(12.1" screen)  
NIBP cuff & tube  
ECG cable & electrodes  
SpO<sub>2</sub> sensor  
Temperature probe  
Lithium-ion battery

#### Optional Accessories

Touch screen  
Trolley bracket  
Hanging bracket  
Monitor recorder  
Vehicle-mounted power supply

#### Classification

SFDA: Class II b  
Anti-electroshock degree:  
Class I equipment  
(internal power supply)

TEMP/SpO <sub>2</sub> /NIBP:	BF
ECG/Resp:	CF

#### Certificates

##### Quality Standards

ISO9001  
ISO13485  
CMD  
CMC  
CCC

##### Design Standard

EN60601-1 and IEC60601-1  
EN60601-1-1 and IEC60601-1-1  
IEC60601-1-2 and IEC60601-1-4  
EN60601-2-27 and EN60601-2-30  
EN12470 and IEC60601-2-49

##### CE Declaration

PM-7000D has been assessed with respect to the conformity assessment procedure described in Article 11.3.a and Annex II excluding section 4 (Module H) of Council Directive 93/42/EEC on Medical Devices, as amended, and found to comply.