PMAM-I
Patient Monitor
(5 inch)

Features

Five parameters: ECG, NIBP, SPO2, PR, TEMP.
Waveform: ECG and SPO2 waveforms.
Touch screen, 5.0-inch color TFT-LCD, simple for operating, quickly and accurately measure the data;
Build-in rechargeable Li-battery, up to 15 hours running time, support AC and DC power;
Adjustable audible and visual alarms, and sensor off alarm;
Long time monitoring and sleeping monitoring;
Easy to carry, suitable for ambulance center, has the stand for fixing;
ETCO2, FiCO2 and RR (respiration rate) are optional.

Advantage

Storage and review data up to 3888 groups via Trend Graph and Trend List.
USB connects to computer
Bluetooth connects to android software
Big font screen interface is easy to observe;
Back light can be adjusted;
Free advanced software is all standard on free (Bluetooth software; VSDV software for download the storage data; Guardian software for transmitting the real-time data and storage all data and waveform; Health aids software for Android mobile)

Specification

General Specifications

Size: 209mm×104mm×47.5mm
Net Weight: 655g

Display Specification

Measurement Display: color TFT- LCD/touch screen
Power Supply Indicator: Dual-color LED (red/green)
Charging indicator: A green LED

Power Supply

Input: 100~240VAC, 50/60Hz, 0.7A
Output: DC 5V, 1.5A
Li-ion rechargeable battery, 3.7V/7200mAH
Operating Time: 15 hours with full battery capacity (Condition: 25℃, NIBP working period is 15 minutes)
Recharge Time: 10 hours.

Environment

Working temperature:0℃~45℃
Transport and Storage temperature: -25℃~85℃
Working humidity: 30%~85 %
Transport and Storage humidity: 30%~95 % (no condensation)

ECG

Input: 5- lead ECG cable, standard AAMI cable connector
Lead Selection: I, II, III, avR, avL, avF, C
Gain Selection: ×1, ×2, ×4, ×8
Sweep Speed: 12.5, 25, and 50 mm/s
Frequency Response: None filter: 0.05~100Hz (-3dB), filter: 0.5~40Hz (-3dB)
Calibration Signal: 1mV square wave
Protection: Against electrosurgical interference and defibrillation

Heart Rate

Measuring Range: 20 bpm~300 bpm
Renew Time: 1 time per beat
Accuracy: ±1 bpm
Alarm Mode: Audible and visual alarm

SpO2

Measuring Range:0%~100%
Resolution:1 %
Accuracy: ±2 % (90%~99%), ±3 % (70%~89%), unspecified (0%~69%)

Pulse Rate

Measuring and Alarm Range: 20~300bpm
Resolution: 1bpm
Accuracy: ±1bpm

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 5, 10, 15, 20, 30, 45, 60 (min)
Measuring Period in STAT Mode: 5 min
Cuff Pressure Range:0~300mmHg
Pulse Rate Range:30~250bpm
Measurement Rage: Adult 30~255mmHg, Pediatric 30~160mmHg
Over-pressure Protection: Adult 300mmHg, Pediatric 220mmHg
Pressure Resolution: 1mmHg
The SYSTOLIC and DIASTOLIC values measured using this device shall be equal to those measured by trained medical personnel using cuff and stethoscope. The MEAN value measured using this device is equal to that measured using blood pressure measurement device.

Temperature

Input: Body surface thermal-sensitive resistor temperature sensor
Measuring Range: 0℃~50℃
Accuracy: ±0.1℃

Storage and Review

Maximum Data Quantity: 3888 groups
Maximum Trend Time: Continuous 129.6 hours

EtCO2 (optional)

Measuring Range: 0~150mmHg
Resolution: 1 mmHg
Accuracy: ±2mmHg@< 5.0% CO2

Respiration Rate (optional)

Measuring Range: 0~120rpm
Resolution: 1rpm
Accuracy: ±1rpm


Optional ETCO2

Standard Accessories

Color palm patient monitor main unit 1 pc
5-lead ECG cable (include surface TEMP probe) 1 pc
Adult finger SpO2 sensor 1 pc
Adult NIBP cuff 1 pc

NIBP extension tube 1 pc
USB cable 1 pc
AC power adapter 1 pc
The operator’s manual 1 pc

Selectable Accessories

Pediatric NIBP cuff
Pediatric finger Spo2 sensor
Neonatal wrap SpO2 sensor
EtCO2 module(optional) 1 pc
Drying tube(optional) 2 pcs
Sampling tube(optional) 1 pc
Nasal tube(optional) 1 pc
3-way elbow(optional) 1 pc

PMM-8000E Patient Monitor

(8 inch)

Feature

1. 8-inch, two kinds of configuration for choice: 3 Para, or 6 Para
   3 Para: NIBP, SPO2, PR
   6 Para: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratiotable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
10. Options of Central Monitoring System;
11. Built-in rechargeable battery 2200mAh;
12. 8" high resolution color TFT LCD display;
13. Large volume of tabular and graphic trends information storage and easy to recall;
14. Anti-ESU, anti- defibrillator;
15. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)
Lead selection: I, II, III, avR, avL, avF, V,
Waveform: 2 ch
Lead mode: 3 Leads (R, L, F or RA, LA, LL)
Lead selection: I, II, III,
Waveform: 1 ch
Gain: ‘2.5mm/mV, ‘5.0mm/mV, ‘10mm/mV, ‘20mm/mV, auto

Heart Rate and Alarm

Range
Adult: 15 ~ 300 bpm
Neo/Ped: 15 ~ 350 bpm
Accuracy: ± 1% or ± 1bpm, which great
Resolution: 1 bpm
Sensitivity: > 200 (uV P-P)
Differential Input Impedance: > 5 MΩ
CMRR
-Monitor: > 105 dB
-Operation: > 105 dB
-Diagnosis: > 85 dB
Electrode offset potential: ±300mV
Leakage Current: < 10 uA
Baseline Recovery: < 3 S after Defi.
ECG Signal Range: ±8 m V (Vp-p)
Bandwidth
-Surgery: 1 ~ 15 Hz
-Monitor: 0.5 ~ 35 Hz
-Diagnostic: 0.05 ~ 100 Hz
Calibration Signal: 1 (mV p-p), Accuracy: ±5%
ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV
ARR Detecting
Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
Alarm: Available
Review: Available

Respiration

Method: Impedance between R-F (RA-LL)
Differential Input Impedance: >2.5 MΩ
Measuring Impedance Range: 0.3~5.0Ω
Base line Impedance Range: 0 – 2.5 KΩ
Bandwidth: 0.3 ~ 2.5 Hz
Resp. Rate
Measuring and Alarm Range

-Adult: 0 ~ 120 rpm
-Neo/Ped: 0 ~ 150 rpm
Resolution: 1 rpm
Accuracy: ±2 rpm
Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min)
Measuring Period in STAT Mode: 5 Min
Pulse Rate Range: 40 ~ 240 bpm
Alarm Type: SYS, DIA, MEAN
Measuring and alarm range
Adult Mode
-SYS: 40 ~ 270 mmHg
-DIA: 10 ~ 215 mmHg
-MEAN: 20 ~ 235 mmHg
Pediatric Mode
-SYS: 40 ~ 200 mmHg
-DIA: 10 ~ 150 mmHg
-MEAN: 20 ~ 165 mmHg
Neonatal Mode
-SYS: 40 ~ 135 mmHg
-DIA: 10 ~ 100 mmHg
-MEAN: 20 ~ 110 mmHg
Resolution Pressure: 1mmHg
Accuracy Pressure Maximum Mean error: ±5mmHg
Maximum Standard deviation: ±8mmHg
Overpressure Protection
-Adult Mode: 297±3 mmHg
-Pediatric Mode: 240±3 mmHg
-Neonatal Mode: 147±3 mmHg

SpO2

Measuring Range: 0 ~ 100 %
Alarm Range: 0 ~ 100 %
Resolution: 1 %
Accuracy: 70% ~ 100% ±2 %; 0% ~ 69% unspecified
Actualization interval: about 1 Sec.
Alarm Delay: 10 Sec.
Pulse Rate
Measuring and Alarm Range: 20~300bpm

Resolution: 1bpm
Accuracy: ±2bpm

Temperature

Channel: 2
Measuring and Alarm Range: 0 ~ 50 °C
Resolution: 0.1°C
Accuracy: ±0.1°C
Actualization interval: about 1 Sec.
Average Time Constant:<10 Sec.

Standard Packing List

3 Para

Adult finger SpO2 sensor
Adult NIBP cuff
NIBP extension tube
AC power adaptor
Operation instruction

6 Para

5-lead ECG cable (including RESP)
Adult finger SpO2 sensor
Adult NIBP cuff
NIBP extension tube
TEMP sensor
AC power adaptor
ECG electrodes
Operation instruction

Optional Function

Central Monitoring System

PMM-8000S Patient Monitor

(10.1 inch)

Feature

1. 10.1-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratiotable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
10. Options of IBP, EtCO2, Central Monitoring System;
11. Built-in rechargeable battery 4400mAh;
12. 10.1" high resolution color TFT LCD display;
13. Large volume of tabular and graphic trends information storage and easy to recall;
14. Anti-ESU, anti- defibrillator;
15. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)
Lead selection: I, II, III, avR, avL, avF, V,
Waveform: 2 ch
Lead mode: 3 Leads (R, L, F or RA, LA, LL)

Lead selection: I, II, III,
Waveform: 1 ch
Gain: ‘2.5mm/mV, ‘5.0mm/mV, ‘10mm/mV, ‘20mm/mV, auto

Heart Rate and Alarm

Range
Adult: 15 ~ 300 bpm
Neo/Ped: 15 ~ 350 bpm
Accuracy: ± 1% or ± 1bpm, which great
Resolution: 1 bpm
Sensitivity: > 200 (uV P-P)
Differential Input Impedance: > 5 MΩ
CMRR
-Monitor: > 105 dB
-Operation: > 105 dB
-Diagnosis: > 85 dB
Electrode offset potential: ±300mV
Leakage Current: < 10 uA
Baseline Recovery: < 3 S after Defi.
ECG Signal Range: ±8 m V (Vp-p)
Bandwidth
-Surgery: 1 ~ 15 Hz
-Monitor: 0.5 ~ 35 Hz
-Diagnostic: 0.05 ~ 100 Hz
Calibration Signal: 1 (mV p-p), Accuracy: ±5%
ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV
ARR Detecting
Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
Alarm: Available
Review: Available

Respiration

Method: Impedance between R-F (RA-LL)
Differential Input Impedance: >2.5 MΩ
Measuring Impedance Range: 0.3~5.0Ω
Base line Impedance Range: 0 – 2.5 KΩ
Bandwidth: 0.3 ~ 2.5 Hz
Resp. Rate
Measuring and Alarm Range
-Adult: 0 ~ 120 rpm
-Neo/Ped: 0 ~ 150 rpm
Resolution: 1 rpm
Accuracy: ±2 rpm

Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min)
Measuring Period in STAT Mode: 5 Min
Pulse Rate Range: 40 ~ 240 bpm
Alarm Type: SYS, DIA, MEAN
Measuring and alarm range
- Adult Mode
  - -SYS: 40 ~ 270 mmHg
  - -DIA: 10 ~ 215 mmHg
  - -MEAN: 20 ~ 235 mmHg
- Pediatric Mode
  - -SYS: 40 ~ 200 mmHg
  - -DIA: 10 ~ 150 mmHg
  - -MEAN: 20 ~ 165 mmHg
- Neonatal Mode
  - -SYS: 40 ~ 135 mmHg
  - -DIA: 10 ~ 100 mmHg
  - -MEAN: 20 ~ 110 mmHg

Resolution Pressure: 1mmHg
Accuracy Pressure Maximum Mean error: ±5mmHg
Maximum Standard deviation: ±8mmHg
Overpressure Protection
- -Adult Mode: 297±3 mmHg
- -Pediatric Mode: 240±3 mmHg
- -Neonatal Mode: 147±3 mmHg

SpO2

Measuring Range: 0 ~ 100 %
Alarm Range: 0 ~ 100 %
Resolution: 1 %
Accuracy: 70% ~ 100% ±2 %; 0% ~ 69% unspecified
Actualization interval: about 1 Sec.
Alarm Delay: 10 Sec.
Pulse Rate
Measuring and Alarm Range: 20~300bpm
Resolution: 1bpm
Accuracy: ±2bpm

Temperature

Channel: 2
Measuring and Alarm Range: 0 ~ 50 °C
Resolution: 0.1°C
Accuracy: ±0.1°C
Actualization interval: about 1 Sec.
Average Time Constant:<10 Sec.

IBP (optional)

Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2
Measuring and alarm range
-ART: 0 ~ 300 mmHg
-PA: -6 ~ 120 mmHg
-CVP/RAP/LAP/ICP: -10 ~ 40 mmHg
-P1/P2: -10 ~ 300 mmHg
Press Sensor
Sensitivity: 5 uV/V/mmHg
Impedance: 300-3000Ω
Resolution: 1 mmHg
Accuracy: ±2% or ±1mmHg, which great
Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)
Adult finger SpO2 sensor
Adult NIBP cuff
NIBP extension tube
TEMP sensor
AC power adaptor
ECG electrodes
Operation instruction

Optional Function

IBP, EtCO2, Central Monitoring System

PMM-9000E Patient Monitor

(12.1 inch)

Feature

1. 12.1-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratiotable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
10. Options of Internal Recorder, IBP, EtCO2, Central Monitoring System, Touch Screen, VGA, Neonate SPO2
11. Built-in rechargeable battery 4400mAh;
12. 12.1" high resolution color TFT LCD display;
13. Large volume of tabular and graphic trends information storage and easy to recall;
14. Anti-ESU, anti- defibrillator;
15. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)
Lead selection: I, II, III, avR, avL, avF, V,
Waveform: 2 ch
Lead mode: 3 Leads (R, L, F or RA, LA, LL)
Lead selection: I, II, III,
Waveform: 1 ch
Gain: ‘2.5mm/mV, ‘5.0mm/mV, ‘10mm/mV, ‘20mm/mV, auto

Heart Rate and Alarm

Range
-Adult: 15 ~ 300 bpm
-Neo/Ped: 15 ~ 350 bpm
Accuracy: ± 1% or ± 1bpm, which great
Resolution: 1 bpm
Sensitivity: >200 (uV P-P)
Differential Input Impedance: > 5 MΩ
CMRR
-Monitor: > 105 dB
-Operation: > 105 dB
-Diagnosis: > 85 dB
Electrode offset potential: ±300mV
Leakage Current: <10uA
Baseline Recovery: < 3S after Defi.
ECG Signal Range: ±8 m V (Vp-p)
Bandwidth
-Surgery: 1 ~ 15 Hz
-Monitor: 0.5 ~ 35 Hz
-Diagnostic: 0.05 ~ 100 Hz
Calibration Signal: 1 (mV p-p), Accuracy: ±5%
ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV
ARR Detecting
Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
Alarm: Available
Review: Available

Respiration

Method: Impedance between R-F (RA-LL)
Differential Input Impedance: >2.5 MΩ
Measuring Impedance Range: 0.3 ~ 5.0Ω
Base line Impedance Range: 0 ~ 2.5 KΩ
Bandwidth: 0.3 ~ 2.5 Hz
Resp. Rate
Measuring and Alarm Range

-Adult: 0 ~ 120 rpm
-Neo/Ped: 0 ~ 150 rpm
Resolution: 1 rpm
Accuracy: ±2 rpm
Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min)
Measuring Period in STAT Mode: 5 Min
Pulse Rate Range: 40 ~ 240 bpm
Alarm Type: SYS, DIA, MEAN
Measuring and alarm range
Adult Mode
-SYS: 40 ~ 270 mmHg
-DIA: 10 ~ 215 mmHg
-MEAN: 20 ~ 235 mmHg
Pediatric Mode
-SYS: 40 ~ 200 mmHg
-DIA: 10 ~ 150 mmHg
-MEAN: 20 ~ 165 mmHg
Neonatal Mode
-SYS: 40 ~ 135 mmHg
-DIA: 10 ~ 100 mmHg
-MEAN: 20 ~ 110 mmHg
Resolution Pressure: 1mmHg
Accuracy Pressure Maximum Mean error: ±5mmHg
Maximum Standard deviation: ±8mmHg
Overpressure Protection
-Adult Mode: 297±3 mmHg
-Pediatric Mode: 240±3 mmHg
-Neonatal Mode: 147±3 mmHg

SpO2

Measuring Range: 0 ~ 100 %
Alarm Range: 0 ~ 100 %
Resolution: 1 %
Accuracy: 70% ~ 100% ±2 %; 0% ~ 69% unspecified
Actualization interval: about 1 Sec.
Alarm Delay: 10 Sec.
Pulse Rate
Measuring and Alarm Range: 20~300bpm

Resolution: 1bpm
Accuracy: ±2bpm

Temperature

Channel: 2
Measuring and Alarm Range: 0 ~ 50°C
Resolution: 0.1°C
Accuracy: ±0.1°C
Actualization interval: about 1 Sec.
Average Time Constant:<10 Sec.

IBP (optional)

Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2
Measuring and alarm range
-ART: 0 ~ 300 mmHg
-PA: -6 ~ 120 mmHg
-CVP/RAP/LAP/ICP: -10 ~ 40 mmHg
-P1/P2: -10 ~ 300 mmHg
Press Sensor
Sensitivity: 5uV/V/mmHg
Impedance: 300-3000Ω
Resolution: 1 mmHg
Accuracy: ±2% or ±1mmHg, which great
Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)
Adult finger SpO2 sensor
Adult NIBP cuff
NIBP extension tube
TEMP sensor
AC power adaptor
ECG electrodes
Operation instruction

Optional Function

Internal Recorder, IBP, EtCO2, Central Monitoring System, Touch Screen, VGA, Neonate SPO2

PMM-9000S
Patient Monitor
(15.6 inch)

Feature

1. 15.6-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratiotable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
10. Options of Internal Recorder, IBP, EtCO2, Central Monitoring System, Neonate SPO2
11. Built-in rechargeable battery 4800mAh;
12. 15.6" high resolution color TFT LCD display;
13. Large volume of tabular and graphic trends information storage and easy to recall;
14. Anti-ESU, anti- defibrillator;
15. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)

Lead selection: I, II, III, avR, avL, avF, V,

Waveform: 2 ch
Lead mode: 3 Leads (R, L, F or RA, LA, LL)
Lead selection: I, II, III,
Waveform: 1 ch
Gain: ‘2.5mm/mV, ‘5.0mm/mV, ‘10mm/mV, ‘20mm/mV, auto

Heart Rate and Alarm

Range
Adult: 15 ~ 300 bpm
Neo/Ped: 15 ~ 350 bpm
Accuracy: ± 1% or ± 1bpm, which great
Resolution: 1 bpm
Sensitivity: > 200 (uV P-P)
Differential Input Impedance: > 5 MΩ
CMRR
-Monitor: > 105 dB
-Operation: > 105 dB
-Diagnosis: > 85 dB
Electrode offset potential: ±300mV
Leakage Current: < 10 uA
Baseline Recovery: < 3 S after Defi.
ECG Signal Range: ±8 m V (Vp-p)
Bandwidth
-Surgery: 1 ~ 15 Hz
-Monitor: 0.5 ~ 35 Hz
-Diagnostic: 0.05 ~ 100 Hz
Calibration Signal: 1 (mV p-p), Accuracy: ±5%
ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV
ARR Detecting
Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
Alarm: Available
Review: Available

Respiration

Method: Impedance between R-F (RA-LL)
Differential Input Impedance: >2.5 MΩ
Measuring Impedance Range: 0.3~5.0Ω
Base line Impedance Range: 0 – 2.5 KΩ
Bandwidth: 0.3 ~ 2.5 Hz
Resp. Rate
Measuring and Alarm Range
-Adult: 0 ~ 120 rpm
-Neo/Ped: 0 ~ 150 rpm

Resolution: 1 rpm
Accuracy: ±2 rpm
Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min)
Measuring Period in STAT Mode: 5 Min
Pulse Rate Range: 40 ~ 240 bpm
Alarm Type: SYS, DIA, MEAN
Measuring and alarm range
Adult Mode
-SYS: 40 ~ 270 mmHg
-DIA: 10 ~ 215 mmHg
-MEAN: 20 ~ 235 mmHg
Pediatric Mode
-SYS: 40 ~ 200 mmHg
-DIA: 10 ~ 150 mmHg
-MEAN: 20 ~ 165 mmHg
Neonatal Mode
-SYS: 40 ~ 135 mmHg
-DIA: 10 ~ 100 mmHg
-MEAN: 20 ~ 110 mmHg
Resolution Pressure: 1mmHg
Accuracy Pressure Maximum Mean error: ±5mmHg
Maximum Standard deviation: ±8mmHg
Overpressure Protection
-Adult Mode: 297±3 mmHg
-Pediatric Mode: 240±3 mmHg
-Neonatal Mode: 147±3 mmHg

SpO2

Measuring Range: 0 ~ 100 %
Alarm Range: 0 ~ 100 %
Resolution: 1 %
Accuracy: 70% ~ 100% ±2 %; 0% ~ 69% unspecified
Actualization interval: about 1 Sec.
Alarm Delay: 10 Sec.
Pulse Rate
Measuring and Alarm Range: 20~300bpm
Resolution: 1bpm
Accuracy: ±2bpm

Temperature

Channel: 2
Measuring and Alarm Range: 0 ~ 50 °C
Resolution: 0.1°C
Accuracy: ±0.1°C
Actualization interval: about 1 Sec.
Average Time Constant:<10 Sec.

IBP (optional)

Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2
Measuring and alarm range
-ART: 0 ~ 300 mmHg
-PA: -6 ~ 120 mmHg
-CVP/RAP/LAP/ICP: -10 ~ 40 mmHg
-P1/P2: -10 ~ 300 mmHg
Press Sensor
Sensitivity: 5 uV/V/mmHg
Impedance: 300-3000Ω
Resolution: 1 mmHg
Accuracy: ±2% or ±1mmHg, which great
Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)
Adult finger SpO2 sensor
Adult NIBP cuff
NIBP extension tube
TEMP sensor
AC power adaptor
ECG electrodes
Operation instruction

Optional Function

Internal Recorder, IBP, EtCO2, Central Monitoring System, Neonate SPO2

PMARI-800B+
Patient Monitor
(15 inch)

Feature

16. 15-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
17. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratiotable;
18. Efficient resistance to interference of defibrillator and electrosurgical cautery;
19. SPO2 can testing for 0.1% Weak;
20. RA-LL impedance Respiration;
21. Trend Coexist Display;
22. OxyCRG DyNamic View Display;
23. Bed to Bed view Display;
24. Networking capacity and nurse calling system;
25. Options of printing, IBP, VGA and EtCO2;
26. UP to 4 hours working capacity of built-in rechargeable battery;
27. 15.1" high resolution color TFT LCD display;
28. Large volume of tabular and graphic trends information storage and easy to recall;
29. Anti-ESU, anti- defibrillator;
30. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)
Lead selection: I, II, III, avR, avL, avF, V,
Waveform: 2 ch
Lead mode: 3 Leads (R, L, F or RA, LA, LL)
Lead selection: I, II, III,
Waveform: 1 ch
Gain: ‘2.5mm/mV, ‘5.0mm/mV, ‘10mm/mV, ‘20mm/mV, auto

Heart Rate and Alarm

Range
Adult: 15 ~ 300 bpm
Neo/Ped: 15 ~ 350 bpm
Accuracy: ± 1% or ± 1bpm, which great
Resolution: 1 bpm
Sensitivity: > 200 (uV P-P)
Differential Input Impedance: > 5 MΩ
CMRR
-Monitor: > 105 dB
-Operation: > 105 dB
-Diagnosis: > 85 dB
Electrode offset potential: ±300mV
Leakage Current: < 10 uA
Baseline Recovery: < 3 S after Defi.
ECG Signal Range: ±8 m V (Vp-p)
Bandwidth
-Surgery: 1 ~ 15 Hz
-Monitor: 0.5 ~ 35 Hz
-Diagnostic: 0.05 ~ 100 Hz
Calibration Signal: 1 (mV p-p), Accuracy: ±5%
ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV
ARR Detecting
Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
Alarm: Available
Review: Available

Respiration

Method: Impedance between R-F (RA-LL)
Differential Input Impedance: >2.5 MΩ
Measuring Impedance Range: 0.3~5.0Ω
Base line Impedance Range: 0 – 2.5 KΩ

Bandwidth: 0.3 ~ 2.5 Hz
Resp. Rate
Measuring and Alarm Range
-Adult: 0 ~ 120 rpm
-Neo/Ped: 0 ~ 150 rpm
Resolution: 1 rpm
Accuracy: ±2 rpm
Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min)
Measuring Period in STAT Mode: 5 Min
Pulse Rate Range: 40 ~ 240 bpm
Alarm Type: SYS, DIA, MEAN
Measuring and alarm range
Adult Mode
-SYS: 40 ~ 270 mmHg
-DIA: 10 ~ 215 mmHg
-MEAN: 20 ~ 235 mmHg
Pediatric Mode
-SYS: 40 ~ 200 mmHg
-DIA: 10 ~ 150 mmHg
-MEAN: 20 ~ 165 mmHg
Neonatal Mode
-SYS: 40 ~ 135 mmHg
-DIA: 10 ~ 100 mmHg
-MEAN: 20 ~ 110 mmHg
Resolution Pressure: 1mmHg
Accuracy Pressure Maximum Mean error: ±5mmHg
Maximum Standard deviation: ±8mmHg
Overpressure Protection
-Adult Mode: 297±3 mmHg
-Pediatric Mode: 240±3 mmHg
-Neonatal Mode: 147±3 mmHg

SpO2

Measuring Range: 0 ~ 100 %
Alarm Range: 0 ~ 100 %
Resolution: 1 %
Accuracy: 70% ~ 100% ±2 %; 0% ~ 69% unspecified
Actualization interval: about 1 Sec.

Alarm Delay: 10 Sec.
Pulse Rate
Measuring and Alarm Range: 20~300bpm
Resolution: 1bpm
Accuracy: ±2bpm

Temperature

Channel: 2
Measuring and Alarm Range: 0 ~ 50 °C
Resolution: 0.1°C
Accuracy: ±0.1°C
Actualization interval: about 1 Sec.
Average Time Constant:<10 Sec.

IBP (Optional)

Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2
Measuring and alarm range
-ART: 0 ~ 300 mmHg
-PA: -6 ~ 120 mmHg
-CVP/RAP/LAP/ICP: -10 ~ 40 mmHg
-P1/P2: -10 ~ 300 mmHg
Press Sensor
Sensitivity: 5 uV/V/mmHg
Impedance: 300-3000Ω
Resolution: 1 mmHg
Accuracy: ±2% or ±1mmHg, which great
Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)
Adult finger SpO2 sensor
Adult NIBP cuff
NIBP extension tube
TEMP sensor
AC power adaptor
ECG electrodes
Operation instruction

Selectable Accessory

Child finger SPO2 sensor
Child NIBP cuff
Neonate NIBP cuff

PMARI-800D
Modular Patient Monitor
(12.1 inch)

Introduction

Our modular pationt monitor can achieve modularization for function expanding with the help of integration plug-in technology, which can meet the requirement of updating and the monitors in all departments in the hospital. With various function, this machine can satisfy the convenient operation and the selection of all data of monitor in all departments in the hospitals.

Features

Integrated Plug in Modular, 12.1” colorful and clear TFT display
Standard 6 parameters and optional single plug-in parameter box
Touch screen available; able to be operated by keyboard or optional mouse
With durable trim knob and backlight silicone buttons
Simultaneously display at least 10 parameters, 13 kinds of arrhythmia analysis
ECG Waveforms of 7-lead displayed simultaneously.
Assist to judge the heart activity directly
15 kinds of drug dose calculations
Anti-electrosurgical, anti-defibrillation, suitable for monitoring critical care

Trend interface, OxyCRG interface, BigFont interface
Built-in detachable rechargeable lithium battery, battery life 4.5 hours
1000 hours trend data and trend graphs, 48 hours full waveform reviewing
Power failure data store
High capacity of information storage
NIBP dual overpressure protection
Wired/wireless connection, with system supporting 3 display screens
Supporting SD card, 4 USB interfaces
Omni-directional visible design; 3 levels of audible, visual and audio alarm; dual alarm lights for physiological and technical alarm

Technical specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)
Lead selection: I, II, III, avR, avL, avF, V,
Waveform: 2 ch
Lead mode: 3 Leads (R, L, F or RA, LA, LL)
Lead selection: I, II, III,
Waveform: 1 ch
Gain: ‘2.5mm/mV, ‘5.0mm/mV, ‘10mm/mV, ‘20mm/mV, auto

Heart Rate

Range
-Adult: 15 ~ 300 bpm
-Neo/Ped: 15 ~ 350 bpm
Accuracy: ± 1% or ± 1bpm, which great
Resolution: 1 bpm
Sensitivity: > 200 (uV P-P)
Differential Input Impedance: > 5 MΩ
CMRR
-Monitor: > 105 dB
-Operation: > 105 dB
-Diagnosis: > 85 dB
Electrode offset potential: ±300mV
Leakage Current: < 10 uA
Baseline Recovery: < 3 S after Defi.
ECG Signal Range: ±8 m V (Vp-p)
Bandwidth
-Surgery: 1 ~ 15 Hz
-Monitor: 0.5 ~ 35 Hz
-Diagnostic: 0.05 ~ 100 Hz
Calibration Signal: 1 (mV p-p), Accuracy: ±5%
ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV

ARR Detecting
Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
Alarm: Available
Review: Available

Respiration

Method: Impedance between R-F (RA-LL)
Differential Input Impedance: >2.5 MΩ
Measuring Impedance Range: 0.3~5.0Ω
Base line Impedance Range: 0 – 2.5 KΩ
Bandwidth: 0.3 ~ 2.5 Hz
Resp. Rate
Measuring and Alarm Range
-Adult: 0 ~ 120 rpm
-Neo/Ped: 0 ~ 150 rpm
Resolution: 1 rpm
Accuracy: ±2 rpm
Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric
Mode: Manual, Auto, STAT
Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min)
Measuring Period in STAT Mode: 5 Min
Pulse Rate Range: 40 ~ 240 bpm
Alarm Type: SYS, DIA, MEAN
Measuring and alarm range
Adult Mode
-SYS: 40 ~ 270 mmHg
-DIA: 10 ~ 215 mmHg
-MEAN: 20 ~ 235 mmHg
Pediatric Mode
-SYS: 40 ~ 200 mmHg
-DIA: 10 ~ 150 mmHg
-MEAN: 20 ~ 165 mmHg
Neonatal Mode
-SYS: 40 ~ 135 mmHg
-DIA: 10 ~ 100 mmHg
-MEAN: 20 ~ 110 mmHg
Resolution Pressure: 1mmHg
Accuracy Pressure Maximum Mean error: ±5mmHg
Maximum Standard deviation: ±8mmHg

Overpressure Protection
-Adult Mode: 297±3 mmHg
-Pediatric Mode: 240±3 mmHg
-Neonatal Mode: 147±3 mmHg

SpO2

Measuring Range: 0 ~ 100 %
Alarm Range: 0 ~ 100 %
Resolution: 1 %
Accuracy: 70% ~ 100% ±2 %; 0% ~ 69% unspecified
Actualization interval: about 1 Sec.
Alarm Delay: 10 Sec.

Pulse Rate

Measuring and Alarm Range: 20~300bpm
Resolution: 1bpm
Accuracy: ±2bpm

Temperature

Channel: 2
Measuring and Alarm Range: 0 ~ 50 °C
Resolution: 0.1°C
Accuracy: ±0.1°C
Actualization interval: about 1 Sec.
Average Time Constant:<10 Sec.

Configuration

Standard: ECG, RESP, NIBP, SPO2, PR, TEMP
Optional Function: Recorder, 2-IBP, VGA, ETCO2, AG (Anesthesia Gas), CO (Cardiac Output), Touch Screen, WIFI, Central Monitoring System.