PAT

Advanced® Instrumentations

Patient Monitor
PM-2000XL

Patient Monitors

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Patient Monitor

Model PM-2000XL

All in One Solution Monitoring System

The PM-2000XL patient monitor is a multi-functional all-in-one portable monitoring solution for Ambulatory, Emergency Care, Intermediate Care and Rehabilitation.

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Patient Monitor

PM-2000XL Patient Monitor

Transport And Mounting Solution

Wall Mount

Rolling Stand

2 YEARS warranty

- High Resolution Color TFT LCD Display.
- Full touch-screen display, intuitive operation by clicking parameter or waveform.
- Pacemaker detection.
- Nurse Call function.
- Defibrillation protection and synchronization.
- Electrosurgical interference protection.
- OxyCRG, assessment of respiration and circulation for neonates.
- Extended Full-disclosure trend information.
- Comprehensive alarm system.
- Configurable parameters, options and functions.
- ECG (3/5 Lead) with waveform and Heart Rate (HR).
- Arrhythmia analysis & ST-segment analysis
- Respiration Rate (RR) with waveform.
- SpO2 & Pulse Rate (PR).
- SpO2 plethysmographic waveform.
- SpO2 pulse tone modulation.
- NIBP: SYS, DIA, MAP and Pulse Rate.
- Two Temperature Channels.
- Temperature Difference between two channels (TD).
- Two IBP Channels with waveform (optional)
- CO_2 (optional)
- Sidestream/Mainstream End Tidal CO_2 ($EtCO_2$) (optional)
- Fraction of inspired carbon dioxide ($FiCO_2$).
- Air Way Respiration Rate (AwRR).
- Bidirectional communication with Monitoring Central Station (CMS-2000).
- Wi-Fi (optional)
- HL & communication via XML Files.
- Barcode Scanner Support (optional)
- Thermal recorder (optional)
- SD Card slot enables memory extension .
- Bed-to-Bed viewing display.
- Drug calculation and titration table.
- USB & serial ports, VGA & analog outputs and RJ-45.
- Built in rechargeable battery.
- Power Supply: AC 100~240 Volts 50/60 Hz. Meets IEC 60601-1+A2+A2 & IEC 60601-2+A1 Safety Standards.
- Meets FDA 510(k) requirements.

Built-in Temporary Memory

1,200	120h	60	120s
NIBP Measurement Review	Trend Review	Trend Review	Frozen Waveform

Clinical Network

Bi-directional communication through Central Monitoring station CMS-2000.

CMS-2000 Software, wired or Wi-Fi

HL7 Protocol communication support

Multiple Display Modes

- Multi-Waveform Display
- Large Font
- NIBP Table
- OxyCRG View

Multi-Waveform Display | Large Font | NIBP Table | OxyCRG View

G2 CO_2 (Sidestream) (optional)

Superior water trap designed for accurate monitoring.
iCARB algorithm with intelligent CO_2 pseudo wave identification technology.
Multiple sampling accessories as option for adult, child neonate and patients.

Respironics CO_2 (Mainstream/Sidestreem) (optional)

Plug and Play module design.
Dehumidification tube instead of water trap.
Low sampling rate of 50ml/min suitable for all types of patients.

Technical Specifications

Safety Standards	Safety Standars	IEC 60601-1+A1+A2; IEC 60601-2+A1; IEC 60601-1-8 (Alarm)
Physical Specifications	Dimensions	260mm (L) x 140mm (W) x 205mm (H)
	Weight	Standard configuration 3.6kg
Display	Display	8.4" Color TFT LCD Touch-screen
	Resolution	800 X 600 dpi
	Traces Displayed	Up to 8
	Waveforms Displayed	Up to 11
	Various Workings	Standard Monitoring Display
	Selectable Interface	Large Font Intensive Care Display / Trend Graph/Monitoring Co-Display / Bed to Bed view display (Optional) / OxyCRG Dynamic View display / Drug Dose Calculation Interface.
	Sweep Speed	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
Environmeent Requirement	Ambient Temerature	-20ºC - 55ºC (-4 - 131ºF)
	Humidity	15%-95% non-condensing
Power Supply	AC Power Supply	100-240V AC, 50/60HZ - Pmax=80VA
	Internal Battery	14.8 Rechargeable Li-ion Battery / 4200 mAh 14.8 V DC
	Battery Working Period	Up to 6hours
	Recharging Time	<150minutes (2100 mAh) / <360minutes (4200 mAh)
Resp	Method	Trans-thoracic impedance
	Operation Mode	Auto/Manual
	Rr Measurement Range	Adult: 0-120rpm / Neonate/Pediatric: 0-150rpm
	Resolution	1rPM
	Apnea Alarm Threshold	10s, 15s, 20s (default), 25s, 30s, 35s, 40s
	Alarm	3 levels of audible and visual alarm, Alarms events recallable
	Band Width	0.2-2.5Hz (-3dB)
	Sweep Speed	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
ECG	Lead Type	5-lead and 3-lead selectable
	3 Leadwire Cable	RA; LA; LL or R; L; F
	5 Leadwire Cable	RA; LA; RL; LL; V or R; L; N; F; C
	Lead Selection	3-lead: I; II; III / 5-lead: I; II; III; aVR; aVL; aVF; V
	Gain Selection	x0.125: x0.25: x0.5; x1; x2; auto
	Sweep Speed	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
	Ecg Hr Range	Adult/ Pediatric: 15-300bpm / Neonate: 15-350bpm
	Resolution & Accuracy	±1bpm or ±1%, whichever is greater
	Filter	Diagnosis mode: 0.05-150Hz / Monitoring mode: 0.5-40Hz / Surgical mode: 1-20Hz
	Protection	Withstand 5000VAC/50Hz voltage in isolation against defibrillation, electrosurgical interference
	St-Segment Detection	Measurement range: -2.0mV ~ 2.0mV / Alarm range: -2.0mV ~ 2.0mV Comes With St-segment Arrhythmia Analysis And Categorization
	Alarm	3 levels of audible and visual alarm, alarm events recallable
	Pace Maker Detection	Yes, and 5 types abnormal status detectable / IEC 60601-2-25; AAMI EC 11 / EC 13 IEC 60601-2-27
NIBP	Method	Automatic Oscillometric
	Operations Modes	Manual / Automatic/ Continuous
	Auto Measurement Time Interval	Adjustable 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 240, 480 minutes.
	Measurement Unit	Mmhg/kpa Selectable
	Measurement Types	Systolic, Diastolic, Mean
	Pressure Range Adults	Systolic: 40 - 270 mmHg / Diastolic: 10 - 215 mmHg / Mean: 20 - 235 mmHg
	Pressure Range Pediatrics	Systolic: 40 - 200 mmHg / Diastolic: 10 - 150 mmHg / Mean: 20 - 165 mmHg
	Pressure Range Neonates	Systolic: 40 - 135 mmHg / Diastolic: 10 - 100 mmHg / Mean: 20 - 110 mmHg
	Resolution	1mmHg
	Accuracy	Max mean error ±5mmHg / Max standard deviation ±8mmHg
	Alarm	Systolic, Diastolic, Mean
	Pr From Nibp	Measurement 40-240 bpm
	Resolution	1 bpm
	Accuracy	±3bpm or 3% whichever is greater
		Comes with leak test and pressure auto calibration / IEC 60601-2-30 / SP10: 2002
SPO_2	Measurement/Alarm Range	0 - 100% (SpO2)
	Resolution	1%
	Accuracy	±2% (70-100% Adult/Pediatric); / ±3% (70-100% Neonate)
	PR Measurement/ Alarm Range	25 - 300 bpm
	Resolution	1bpm
	Accuracy	3bpm
	Refresh	1s ISO 9919

Technical Specifications

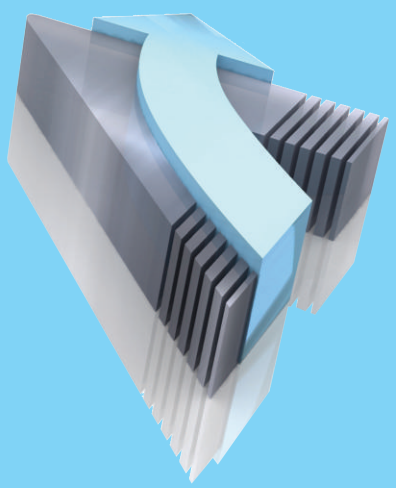
Temperature (2 Channels, 1 Probe By Default)	Measurement Range Resolution Probe Type Accuracy Channel	0-50ºC (32-122ºF) 0.1ºC YSI (B Series) and CF-FI ±0.1ºC (without probe) Dual-channel. Provide T1; T2;T IEC 12470-4
IBP (2 Channels Optional)	Measurement Pressure Measurement Range Accuracy Sensitivity Impedance Range	ART, PA, CVP, RAP, LAP, ICP, P1, P2 -50 - 300mmHg; Resolution: 1 mmHg ±2% or ±1mmHg. Whichever is greater (without probe) 5μ V/V / mmHg; 300 - 3000 Ω IEC 60601 - 2 -34
CO2 (Mainstream/ Sidestream, Optional)	Range Accuracy AWRR Accuracy	0~150mmHg ±2% 0~40mmHg ±5% 41~70mmHg ±8% 71~100mmHg ±10% 101~150mmHg ±1rpm Convenient design for intubated and non-intubated applications / Possible to work at low sample flow rate: 50ml/ minute / Detailed specification refer to the user manual
Recorder (Optional)	Print Speed Paper Width	25mm/s, 50mm/s 50mm / Record widht: 48mm Built-in direct thermal pixel array recorder Up to 3 channels printing and 1,2,3 channels selectable
I/O Interface	Peripherals	1-USB Port SD card Socket RS-232 Serial Port RJ-45 Ethernet Port, IEEE 802.3 VGA output Analog and Nurse Call Output Defibrillation Synchronization Output WLAN Access Point 802.11g 54Mbps (Optional)

Success Through Quality/Since 1988

Advanced Instrumentations Inc.
Success Through Quality,
a Company You Can Trust

Advanced Instrumentations manufactures leading medical technology equipment in the areas of anesthesia, cardiology, operating room, gynecology and obstetrics, IV therapy, patient monitors, hospital furniture, neonatology and ultrasound. We deliver to the healthcare industry the highest-quality standards, reliability, and patient safety in all our products through effective, and rigorous testing procedures by our own department of Biomedical Engineering in the United States. All of our equipment comes with 2 years warranty and excellent post-sale support services.

Advanced Instrumentations Inc. complies with the requirements of the ISO standards 13585-2016 following the audit by one of the most prestigious global certification companies, as it is the SGS. We comply with the requirements and are audited by the US Food and Drug Administration (FDA) an entity of the Health and Human Services of the United States of America. These certifications are the result of dedication and commitment to excellence in our products and services.



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