Advanced Instrumentations

PAT

Patient Monitor

PM-2000XL PRO

Patient Monitors

Advanced® Instrumentations

Patient Monitor

Model PM-2000XL PRO Patient Monitor

All in One Solution Monitoring System

The high performance of the Advanced PM-2000XL PRO patient monitor is designed to match the needs for critical care, post anesthesia care and operation room. The advanced monitoring system and built - in clinical interfaces can provide the all-in-one solution for hospital segments.

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PM-2000XL PRO
Patient Monitor

Wall Mount

Transport Unit

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.
ECG (3/5 Lead & 12 Lead optional) 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. Temperature Difference between two channels (TD). Two/Four IBP Channels with waveform. (optional)
CO2 (optional)
Sidestream/Mainstream End Tidal CO2 (EtCO2).
Fraction of inspired carbon dioxide (FiCO2).
Air Way Respiration Rate (AwRR).
Anesthetic agent measurement with identification.
Nitrous oxide measurement (N2O).
Fraction of inspired oxygen (FiO2) Paramagnetic.
Cardiac Output (CO) measurement. (optional)
Thermal Recorder. (optional)
Bidirectional communication with Monitoring Central Station (CMS-2000).
Wi-Fi (optional)
HL7 communication via XML Files.
Barcode Scanner Support. (optional)
SD Card slot enables memory extension .
USB & serial ports, VGA & analog outputs, 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

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Clinical Network

Bi-directional communication with CMS-2000 central station by wired or wireless connection.

12-LEAD (Optional)

Conventional diagnostic 12-lead ECG, and multi-lead arrhythmia, automatically 208 kinds of analysis results, up to 16 kinds of arrhythmias, 50 sets 12-lead analysis result review, 10 seconds of 12-lead waveform to review and print out.

CO2 (For Intubation And Non-intubation Application) (optional)

Suitable for neonatal patients / No need to calibrate on regular basis / Sidestream sampling rate of 50 ml/min

Anesthetic Gas / O2 (optional)

Mainstream
CO2, N2O and anesthetic agent measurement Sidestream sampling rate of 50 ml/min and identification probes.
Complete gas analysis system contained within sensor head.
Plug in and measure.
Lower power consumption.

Sidestream
Unique water handling Nomoline.
Low sample flow 50ml/min for all type of patients.
Extremely low power consumption and weight.
Warm-up time 10/20 seconds before full performance.

Paramagnetic Oxygen
Fast response, totally linear.
High stability and accuracy.
Long operational life.
Low maintenance requirements.
Insignificant effect from background gases.

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Technical Specifications

Safety Standards	Safety Standars	IEC 60601-1+A1+A2; IEC 60601-2+A1; IEC 60601-1-8 (Alarm)
Physical Specifications	Dimensions	370mm (L) x 175mm (L) x 320mm (H)
	Weight	Standard configuration 7kg (with one battery)
Display	Display	15'Color TFT LCD Touch-screen
	Resolution	1024 x 768 dpi / 800 x 600 dpi
	Traces Displayed	Up to 8
	Waveforms Displayed	Up to 13
	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/sdisplay (Optional) / OxyCRG Dynamic View display / Drug Dose Calculation Interface
Environmeent Requirement	Ambient Temperature	370mm (L) x 175mm (L) x 320mm (H)
	Humidity	15%-95% non-condensing
Power Supply	AC Power Supply	100-240V AC, 50/60HZ
	Internal Battery	Rechargeable Li-ion Battery / 4200 mAh 14.8 V DC / 2100 mAh (optional)
	Battery Working Period	6hours maximum (with 2x4200mAh batteries) / Under certain circumstance: 2100mAh: 120mins/4200mAh: 240mins
	Recharging Time	<360minutes (4200 mAh) / <150minutes (2100 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, 12-lead optional
	3 Leadwire Cable	RA; LA; LL or R; L; F
	5 Leadwire Cable	RA; LA; RL; LL; V or R; L; N; F; C
	12-lead	(including 3/5-lead optional)
	Input	10 leadwire cable; RA; LA; RL; LL; V1-V6 or R; L; N; F; C1-C6
	Lead Selection	3-lead: I; II; III / 5-lead: I; II; III; aVR; aVL; aVF; V / 12-lead: I; II; III; aVR; aVL; aVF; V1-V16
	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: 0.05-100Hz or 0.05-10Hz (optional 12-lead) / 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
	12 Lead Ecg Analysis	208 reference diagnosis results
	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
	Over-pressure Protection	Dual Safety Protection Comes With Leak Test And Pressure Auto Calibration
	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
	Gain Selection	Comes with leak test and pressure auto calibration / IEC 60601-2-30 / SP10: 2002

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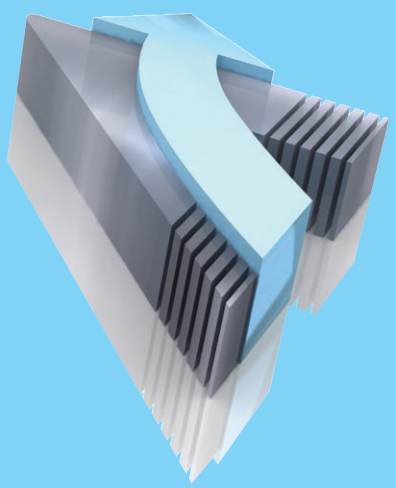
SPO_2	Measurement/Alarm Range	0 - 100% (SpO2)
	Resolution	1%
	Accuracy	±2% (70-100% Adult/Pediatric); / ±3% (70-100% Neonate)
	PR Measurement/ Range	25 - 300 bpm
	Resolution	1bpm
	Accuracy	3bpm
	Refresh	1s
		ISO 9919
Temperature (2 Channels, 1 Probe By Default)	Measurement Range	0-50ºC (32-122ºF)
	Resolution	0.1ºC
	Accuracy (W/O Sensor)	±0.1ºC ±0.1ºC (without probe)
	Channel	Dual-channel. Provide T1; T2;
		IEC 12470-4
IBP (2-4 Channels Optional)	Measurement Pressure	ART, PA, CVP, RAP, LAP, ICP, P1, P2
	Measurement Range	-50 - 300mmHg; Resolution: 1 mmHg
	Accuracy	±2% or ±1mmHg. Whichever is greater (without probe)
	Sensitivity	5μ V/V / mmHg;
	Impedance Range	300 - 3000 Ω
		IEC 60601 - 2 -34
CO2 (Mainstream/ Sidestream, Optional)	Range	0~150mmHg
	Accuracy	±2% 0~40mmHg
		±5% 41~70mmHg
		±8% 71~100mmHg
		±10% 101~150mmHg
	AWRR Accuracy	±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
C.O. (Optional)	Method	Thermodilution Technology
	Measuring Range	CO 0.1~ 20L min / TB 23ºC ~ 43ºC / TI -1ºC ~ 27ºC
	Alarm Range	23ºC ~ 43ºC
Anesthetic Gas/O2 (Optional)	Technology	Infra-red absorption characteristic
	Paramagnetic Oxygen	Optional
	Warm-up Time	Iso accuracy mode: 45s / Full accuracy mode: 60s
	Sample Flow Rate	50+-10ml/min
	Respiratory Rate	0-150bpm +1bpm
	Measuring Range	CO2: 0~ 15% / N2O: 0~ 100% / Hal/Iso/Enf: 0~ 8% / Sev: 0~10% / Des: 0 ~ 22% / O2: 0 ~ 100%
Thermal Recording (Optional)	Print Speed	25mm/s, 50mm/s
	Paper Width	50 mm
		Built-in direct thermal pixel array recorder
		Up to 3 channels printing and 1,2,3 channels selectable
I/O Interface	Peripherals	2-USB Ports
		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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