

Patient Monitor

PM-200M

PAT



 Patient Monitors

PM-200M

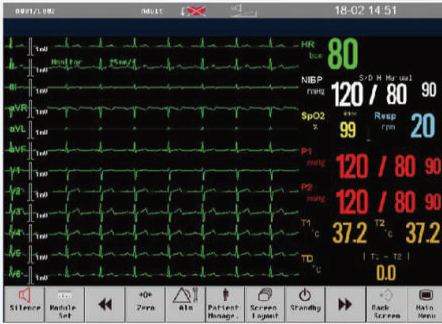
Patient Modular Monitor

The PM-200M is a full modular monitor designed to meet everyday clinical requirements, integrating seamlessly into the hospital work-flow . With its lightweight and plug-and-play modular design, its powerful functions and intuitive user interface, the PM-200M patient monitor is therefore the best choice for acute care.

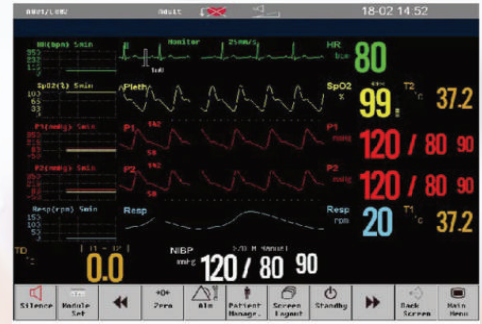


PM-200M

Patient Modular Monitor



12 lead ECG
Capture and review diagnostic 2-lead ECG waveform at one screen.



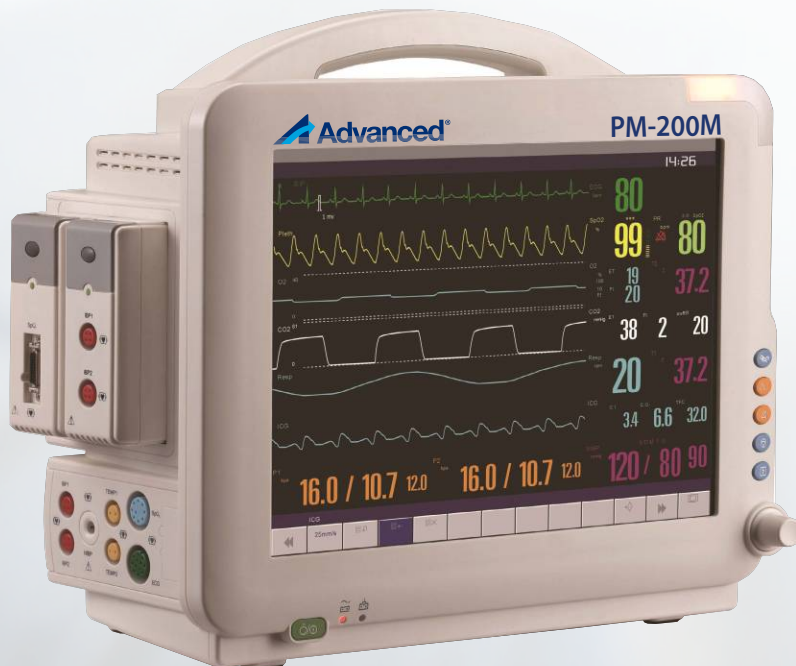
Short trend
Maximum 168 hour graphic and tabular trends



Other bed
Display other bedside monitor's all parameter and one waveform, support user defined parameter display



Oxy-CRG Screen
Oxy-cardiorespirography combines the compressed trends of heart rate, respiration, and oxygenation levels in an easy to interpret display. Oxy-CRG is an indicator of breathing efficiency and brain maturity



Technical Specifications

Size	318mm ×264mm ×152mm
Weight	4.5Kg
Power	
Standard According to IEC 60601-1 and IEC 60601-1-2	
Input voltage	100V-240V AC
Frequency	50Hz/60Hz
Earth leakage current	<0.3 mA
Input current	1.7A -0.8A
Fuse	T 2A/250V
Display	
Type	Color TFT LCD
Size(diagonal)	12.1 inch
Resolution	800×600 pixels
External display	
Type	Medical-Grade TFT display
Size	>15inch
Resolution	800×600 pixels
Recorder	
Type	Thermal dot array
Horizontal resolution	16 dots/mm(at 25 mm/s paper speed)
Vertical resolution	8 dots/mm
Recording speed	12.5 mm/s, 25 mm/s, 50 mm/s
Recording waveform	Maximum 3 tracks
Recording way	Real-time / periodic / alarm recording
Battery	
Type	Rechargeable lithium ion battery 11.1V/4Ah
Operating time	> 210minutes
(1 new and fully charged battery at 25°C temperature, connecting SpO2 sensor & NIBP work on AUTO mode for 15 minutes interval)	
Charge time	6h to 100%(Standby)
Data Storage	
Alarm event	128 groups and associated waveform
Trend	168h, minimum resolution is 1min
	2h, minimum resolution is 5s
ARR event	128 groups and associated waveform
NIBP	1000 groups
Interfacing & I/O devices	
Keyboard & Mouse	Support
Barcode Scanner	Support 1D barcode (USB connector)
Touch screen	Option
Wired network	1 standard RJ45 interfaces
Wireless network	2.4G / 5G dual band (Option)
USB socket	2 sockets
Video output	1 VGA (option)
Nurse call	1 RJ11 connector
Analog signal output	Option
Defibrillation synchronization	1 BNC connector

Technical Specifications

Environmental requirements

Operating temperature	5°C to +40°C
Operating humidity	15% to 85%(non condensing)
Operating air pressure	700hPa to 1060hPa
Storage temperature	-20°C to +55°C
Storage humidity	< 93%(non condensing)
Storage air pressure	500hPa to 1060hPa

ECG

Lead	3 lead: I, II, III 5 lead: I, II, III, aVR, aVL, aVF, Vx 12 lead: I, II, III, aVR, aVL, aVF, V1-V6
Lead standard	AHA, IEC
Gain	x 0.125, x 0.25, x 0.5, x 1, x 2, x 4, Auto.
CMRR	Diagnostic mode \geq 89 dB Monitor mode \geq 105 dB Surgery mode \geq 105 dB
Bandwidth (-3dB)	Diagnostic mode: 0.05 Hz to 150 Hz Monitor mode: 0.5 Hz to 40 Hz Surgery mode: 1 Hz to 25Hz
Input impedance	\geq 5.0 M Ω
ECG signal range	\pm 10.0 mV
Electrode offset potential	\pm 500 Mv
Patient leakage current	< 10 μ A
System noise	\leq 30 μ Vpp (RTI)
Standardizing signal	1 mV \pm 5%
Baseline recovery	Monitor mode: \leq 3 s; Surgery mode: \leq 1 s
Recovery time after defibrillation: waveform recover to baseline in 10s.	
Sweep speed	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s

ST segment

Measurement Channels	Calculating I, II, V- lead etc. at the same time
Default	II lead
Measurement range	-2.0 mV to +2.0 mV
Accuracy	-0.8 mV to +0.8 mV: \pm 0.02 mV or \pm 10%, (whichever is greater) Over \pm 0.8mV: unspecified
Resolution	0.01mV

Heart Rate

Measurement range	Adult 10 bpm to 300 bpm Pediatric & Neonatal 10 bpm to 350 bpm
Accuracy	\pm 1% or \pm 1 bpm, whichever is greater

Arrhythmia analysis

Kinds	ASYSTOLE, VENT FIB/TACH, PAC, RUN PVCS, COUPLET, BIGEMINY, TRIGEMINY, R on T, TACHY, BRADY, MISSED BEATS, MULRI PACS, PNP, PNC, NOISE, VPB, ST HIGH, ST LOW, VTACH, PVCS HIGH.
-------	--

Respiration

Lead	Selected from: I (RA-LA) or II (RA-LL)
Measurement range	0 rpm to 150 rpm
Sweep speed	6.25mm/s, 12.5mm/s, 25mm/s
Accuracy	\pm 2 rpm or \pm 2% , whichever is the greater
Delay of apnea alarm	10/15/20/25/30/35/40/45/50/55/60s

Technical Specifications

NIBP

Standard	IEC 80601-2-30	
Measurement way	Automatic oscillometry	
Measurement mode	Manual , Auto, STAT	
Intervals for Auto measurement: 1/2/3/4/5/10/15/30/60/90min, 2/4/8/12h.		
STAT mode cycle time Keep 5 minutes, at 5 seconds interval.		
Systolic range	Adult	30 to 270 mmHg
	Pediatric	30 to 235 mmHg
	Neonatal	30 to 135 mmHg
Diastolic range	Adult	10 to 220 mmHg
	Pediatric	10 to 220 mmHg
	Neonatal	10 to 110 mmHg
Mean range	Adult	20 to 235 mmHg
	Pediatric	20 to 235 mmHg
	Neonatal	20 to 125 mmHg
Cuff pressure range	0 to 280 mmHg	
Pressure accuracy	Static: ± 3 mmHg	
	Clinic: Average error ± 5 mmHg, standard deviation: ≤ 8 mmHg	
PR range	40 bpm to 240 bpm	
Measurement time:	20s to 45s (depend on HR & moving interference)	
Software overpressure protection	Adult	(297 \pm 3) mmHg
	Pediatric	(252 \pm 3) mmHg
	Neonatal	(147 \pm 3) mmHg

Digital SpO2

Measurement range	0% ~ 100%
Resolution Accuracy	1%
	70% ~ 100% $\pm 2\%$ 0%
	~ 69% unspecified

Perfusion index

Measurement range	0.05% o 20%
-------------------	-------------

PR

Measurement range	20 bpm to 250 bpm
Resolution	1 bpm
Accuracy	$\pm 1\%$ or ± 1 bpm, whichever is the greater

IBP (option)

Standard	EN 60601-2-34 / IEC 60601-2-34
Sensitivity of transducer	5 μ V/V/ mmHg, $\pm 2\%$
Impedance of transducer	300 Ω to 3000 Ω
Static measurement range	-50 mmHg to +300 mmHg
Static measurement accuracy	± 1 mmHg or $\pm 2\%$ of the reading, whichever is the greater (exclusive of transducer) ± 4 mmHg or $\pm 4\%$ of the reading, whichever is the greater (inclusion of transducer)
Dynamic measurement range	-50 mmHg to +350mmHg
Dynamic measurement accuracy	± 4 mmHg or $\pm 4\%$ of the reading whichever is the greater
Resolution	1 mmHg
Unit	mmHg, kPa, cmH2O
Frequency Response	0 Hz to 20 Hz
Kinds of Measurement	ART, PA, CVP, RAP, LAP, ICP, P1/P2

Technical Specifications

Temperature

Standard	ISO80601-2-56
Measurement way	Thermal resistance way
Measurement range	0.0°C to 50.0°C(32°F to 122°F)
Accuracy	0.0°C-50.0°C: $\pm 0.1^{\circ}\text{C}$ (not including the probe) 25.0°C-45.0°C:
Resolution	$\pm 0.2^{\circ}\text{C}$ (including the probe) 0.1°C or 1°F
Unit	°C or °F

C.O (Option)

Measurement Mode	Thermal dilution method
Measurement Wave	Thermal dilution curve
Parameters	C.O., TB, TI,
Measurement Range	C.O. : 0.1 L/min ~ 20 L/min TB: 23.0 ~ 43.0°C TI: -1.0 ~ 27.0°C
Resolution	C.O.: 0.1 L/min TB: 0.1°C TI: 0.1°C
Accuracy	C.O.: 2% SD TB, TI: $\pm 0.1^{\circ}\text{C}$



2018 Advanced Instrumentations Inc, is a U.S.A registered company – All rights reserved.

All functionality, features, specifications and other product information provided in this document including, but not limited to, the benefits, design, pricing, components, performance, availability, and capabilities of the product are subject to change without notice or obligation. Advanced Instrumentations reserves the right to make changes to this document and the product described herein, at any time, without obligation on Advanced Instrumentations to provide notification of such change. Actual description and specification of the product in this document may be different. Images shown here are for representational purpose only, actual may vary.

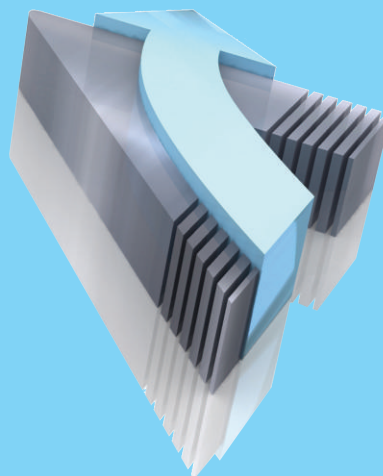
Advanced and Advanced Instrumentations trademarks and logos shown are property of Advanced Instrumentations Inc.

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.



6800 N.W. 77 Court,
Miami, FL 33166
U.S.A.

Phone: 305-477-6331
Fax: 305-477-5351

For additional information visit us at:
www.advanced-inst.com