

Monitor Series

iMD 12

Modular Monitor



Technical Specifications

ECG		RESPIRONICS EtCO₂ configurable	
Input	3-Lead or 5-Lead selectable 3 Lead cable: RA;LA;LL or R;L;F 5 Lead cable: RA;LA;RL;LL;V or R;L;N;F;C	Measurement range	0-99mmHg
Lead selection	3-lead: I,II,III 5 Lead: I, II, III, AVR, AVL, AVF, V 2 channel	Accuracy	0 to 40mmHg ±2mmHg 41 to 76mmHg ± 5mmHg 77 to 99mmHg ±10mmHg
ECG Waveform	2 channel	Sample flow rate Minimum	50ml/m-7.5ml/m
Gain selection	×0.25, ×0.5, ×1, ×2, ×4, Auto	Maximum	50ml/m+15ml/m
Sweep speed	12.5mm/s, 25mm/s, 50mm/s	Start-up time	<1min, once the module starts up, it reaches ISO After 1 min, enter the full accuracy mode
Heart Rate	for Neonate 15-350BPM	Respiration rate	0 to 120rpm
Heart Rate	for Adult/Pediatric 15-300BPM	Respiration rate accuracy	±2 rpm
Accuracy	1bpm or 1%, whichever is greater	Response time	<240msec (10% to 90%)
Resolution	1bpm	Multi-gas	
Filter Diagnostic mode	0.05-100Hz	Method	Infrared Absorption
Monitor mode	0.5-40Hz	Gas accuracy	CO ₂ : 0 to 15vol%, ±(0.2vol%+2% of reading) 15 to 25vol%, Unspecified N ₂ O: 0~100vol%, ±(2vol%+2% of reading) Enf, Iso, Hal: 0~8vol%, ±(0.15vol%+5% of reading) 8 to 25vol%, Unspecified Sev:0~10vol%, ±(0.15vol%+5% of reading) 10 to 25vol%, Unspecified Des:0~22 vol%, ±(0.15vol%+5% of reading) 22 to 25vol%, Unspecified
Surgical mode	1.0-25Hz	Data output	Fi and Etvalues
Protection	Withstand 4000VAC/50Hz Voltage in isolation Against electrosurgical interference and defibrillation	Respiration rate	0 to 150 ±1RPM
Alarm range	Neonate: 15-350BPM Adult/Pediatric: 15-300BPM	Other	Agent mixture detection, MAC value displayed
ST segment detection	Measurement range: -2.0mv to 2.0mv	Interfacing	
Alarm range	-2.0mv to 2.0mv	Connectors	1 AC power connector 1 RJ45 network connector 2 USB 2.0 connector 1 VGA output connector 1 Multifunction output connector Nurse call ECG Analog output
Arrhythmia analysis	Yes	Data Storage	
Alarm	audible and visual alarm, alarm event recallable	Trend date	168 hours
Pace detection	Yes	Alarm events	100 events
Drug dose calculation	Yes	NIBP	1600 recall
Standby mode	Yes	Waveforms	Max. 4 hours.
Respiration		Trend table/Trend graph	1000 hours.
Method	Thoracic impedance	Standard Configuration	ECG, SpO ₂ , NIBP, TEMP, PR/HR, RESP
Measurement range	Neonate/Pediatric: 0~150RPM Adult: 0-120 RPM	Optional Functions	EtCO ₂ , 2IBP, Multi-gas, Recorder
Apnea alarm	No alarm, 10s, 15s, 20s, 25s, 30s, 35s, 40s selectable	Classification	
Alarm	Audible and visual alarm, alarm events recallable	Safety Standard	IEC60601-approved
NIBP		General Specifications	
Method	Oscillometric	Display	12.1" Color TFT LCD with LED background light 5-Wire touch panel is configurable 800*600 Resolution Multi displays selectable, including Standard display, Trend coexist display, Large-font display, OxyCRG dynamic view display, Night mode
Measurement modes	Manual/Automatic/Continuous	Dimension	315(W)×272(H)×121(D)mm
Displayed parameters	Systolic, diastolic and MAP (mean arterial pressure)	Weight	4.3kg
Auto measure time	Adjustable	Power Requirement	AC100-240V, 50/60Hz, 140VA, 1.4A-0.59A
Measurement unit	mmHg/kPa selectable	Temperature	0°C ~ 40°C
Measurement type	Systolic, Diastolic, Mean	Humidity	15% ~ 80% (non-condensing)
Range of Systolic pressure	Adult: 40-270mmHg Pediatric: 40-200mmHg Neonate: 40-135mmHg	Patient range	Neonate, pediatric and adult patient
Range of Diastolic pressure	Adult: 10-210mmHg Pediatric: 10-150mmHg Neonate: 10-100mmHg	Features	Very Thin and Portable design Ergonomically Handle Support two slots for parameter module
Range of Mean pressure	Adult: 20-230mmHg Pediatric: 20-165mmH Neonate: 20-110mmHg	Trace	7 traces Sweep speed: 12.5mm/s, 25mm/s, 50mm/s
Accuracy	±6mmHg	Indicator	Alarm indicator light, Power indicator light Battery indicator light, QRS beep and alarm sound
Resolution	1mmHg	Li-ion Battery	Rechargeable, More than 4 hours for continuous working
Alarm	Systolic, Diastolic, Mean	Alarm and Indicator	User-adjustable High, Medium, and Low limits 3-level audible and visual alarm Alarm indicator light Power indicator light Battery indicator light QRS beep and alarm sound Pulse rate modulation sound
Over-pressure protection	Double safety protection	Networking	Connected to central station system
IBP		Recorder	Thermal printer, Real time recording
Channel	1 or 2 selectable		
Measurement range	-50~400mmHg		
Resolution	1mmHg		
Alarm	Systolic, Diastolic, Mean		
Masimo SpO₂ configurable			
Measurement range	0%~100%		
Resolution	1%		
Accuracy	±2%(70%-100%); unspecified(0-69%)		
Alarm range	0~100%		
Pulse Rate Range	20~254bpm		
Resolution	1bpm		
Accuracy	±3bpm		
Alarm range	0~254bpm		
Temperature			
Measurement range	0~50°C		
Resolution	0.1°C		
Accuracy	±0.1°C		
Channel	T1, T2, TD		



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