iM70

Patient Monitor Version 1.0

Data Sheet





iM70 Patient Monitor Specification (FDA only)						
Physical Specification	າຣ					
Dimension	328 mm (W) × 285 mm (H) × 158 mm (D)					
Weight	< 4.5 kg (stand	ard configuration, without battery)				
Power Supply						
Power Supply	100 V to 240 V	~, 50 Hz/60 Hz				
Current	1.4 A-0.7 A					
Battery						
Battery Type	Rechargeable	lithium-ion battery				
Capacitance	2500 mAh, 500	00 mAh				
Ou and in a Time	2500 mAh	≥3.5 h				
Operating Time	5000 mAh	≥7 h				
	2500 4 h	≤3.5 h, 100% charge				
Ohanna Tima	2500 mAh	≤3.15 h, 90% charge				
Charge Time	5000 m 4 h	≤6.5 h, 100% charge				
	5000 mAh	≤5.85 h, 90% charge				
Display	isplay					
Display screen	12.1 inch color TFT, touch screen available					
Resolution	800 × 600					
Wave	A maximum of 13 waveforms (with 12-lead ECG function)					
Recorder						
Record Width	48 mm					
Paper Speed	12.5 mm/s, 25 mm/s, 50 mm/s					
Channels	3	3				
	Continual real-time recording					
	8-second real-time recording					
	20-second real-time recording					
	Trend graph recording					
	Trend table recording					
	NIBP review recording					
	Alarm review recording					
Recording types	Alarm review recording Drug calculation titration recording					
	Hemodynamic Calculation result recording					
	Oxygenation Calculation result recording					
		culation result recording				
		Calculation result recording				
	12-lead diagno	_				
	C.O. measuren	-				
	Frozen wavefor	rm recording				



Data Storage						
		1 hour, at 1 s resolution				
	Trend data	120 hours, at 1 min resolution				
Internal Temporary	Alarm events	Up to 200 sets				
Memory (Standard)	NIBP Measurement data	1200 sets				
	Arrhythmia events	Up to 200 sets				
	12-lead Diagnosis results	Up to 50 sets				
	A single piece of patient data maxima	ally contains the following information:				
N	Trend graph & Trend table	240 hours, resolution: 1 m				
Non-Volatile Memory	NIBP Measurements review	1200 sets				
(Standard SD card / External USB disk)	Alarm review	200 sets				
External OSB disk)	Arrhythmia event	200 sets				
	Full disclosure waveforms	48 hours				
Wi-Fi						
IEEE	802.11a/b/g/n					
Frequency Band	2.4 GHz ISM band & 5 G ISM band					
Interfaces and others						
Nurse call / analog outpu	ıt/ defibrillator synchronization	1				
USB Interfaces		2				
VGA Interface		1				
Network Interface		1				
Anti-theft lock interface		1				
ECG						
	3-Lead: I, II, III					
Lead Mode	5-Lead: I, II, III, aVR, aVL, aVF, V					
Lead Mode	6-Lead: I, II, III, aVR, aVL, aVF, Va, Vb.					
	12-Lead: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6					
Lead naming style	AHA, IEC					
Display Sensitivity	1.25 mm/mV (×0.125), 2.5 mm/mV (×	<0.25), 5 mm/mV (×0.5), 10 mm/mV (×1), 20				
(Gain Selection)	mm/mV (×2), 40 mm/mV (×4), AUTO gain					
Sweep speed	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s					
	Diagnosis: 0.05 Hz to 150 Hz					
	Diagnosis 1: 0.05 Hz to 40 Hz					
Bandwidth (-3 dB)	Monitor: 0.5 Hz to 40 Hz					
Dandwidth (0 db)	Surgery: 1 Hz to 20 Hz					
	Enhanced: 2 Hz ~18 Hz					
	Customized: High-pass Filter and Lo	w-pass Filter				
	Diagnosis: > 95 dB					
CMRR	Diagnosis 1: > 105 dB (when Notch i	s turned on)				
	Monitor: > 105 dB					
	Surgery: > 105 dB					



	Enhanced: > 105 dB						
	Customized: > 105 dB (Low-pass Filter < 40 Hz)						
	> 95 dB (Low-pass	Filter > 40 Hz)					
Hum Filter	In diagnosis, Diagnosis 1, monitor Hz/60 Hz (Hum Filter can be turn	• •	d customized modes: 50				
Recovery time after defibrillation	<5 s						
	Cut mode: 300 W						
ESU Protection	Coagulation mode: 100 W						
	Restore time: ≤10 s						
Pace pulse detection	one among I, II, III, AVR, AVL, AV	/F, V1, V2, V3,V4, V5, V6					
Heart Rate							
Б	Adult: 15 bpm to 300 bpm						
Range	Ped/Neo: 15 bpm to 350 bpm						
Accuracy	±1% or ±1 bpm, whichever is gre	eater					
Resolution	1 bpm						
PVC							
Adult: 0 to 300 PVCs/ min							
Range	Ped/Neo: 0 to 350 PVCs/ min						
Resolution	1 PVCs/min						
ST value							
Range	-2.0 mV to +2.0 mV						
^	-0.8 mV to +0.8 mV: ±0.02 mV or 10%, whichever is greater.						
Accuracy	Beyond this range: not specified						
Resolution	0.01 mV	0.01 mV					
QT measurement	•						
Range	200 ms ~ 800 ms						
Resolution	4 ms						
Accuracy	± 30 ms						
QTc measurement							
Range	200 ms ~ 800 ms						
Resolution	4 ms						
Accuracy	± 30 ms						
ΔQTc measurement	•						
Range	-600 ms ~ 600 ms						
Resolution	1 ms						
Arrhythmia analyses	•						
Asystole	V-Fib/V-Tach	Couplet	VT>2				
Bigeminy	Trigeminy	Vent	R on T				
PVC	Tachy	Brady	Missed beats				
	7	,					



IRR	Vbrady		PNC	PNP				
12-lead ECG synchror	nization ana							
Average parameters of heart beat								
Heart rate (bpm)								
Time limit of P wave (ms)							
PR interval (ms)								
QRS interval (ms)								
QT/QTC (ms)								
P-QRS-T AXIS								
RESP								
Method	Impedance	between RA-LL, RA-	LA					
Measurement lead	Options are	lead I and II						
м . Б	Adult	0 rpm to 120 rpm						
Measuring Range	Ped/Neo							
Resolution	1 rpm							
	عار راد	6 rpm to 120 rpm: ±	2 rpm					
Accuracy	Adult	0 rpm to 5 rpm: not	specified					
	Ped/Neo	6 rpm to 150 rpm: ±	pm to 150 rpm: ±2 rpm					
	Peu/Neo	0 rpm to 5 rpm: not specified						
Gain Selection	×0.25, ×0.5	×0.25, ×0.5, ×1, ×2, ×3, ×4, ×5						
Sweep	6.25 mm/s,	6.25 mm/s, 12.5 mm/s, 25.0 mm/s, 50.0 mm/s						
Apnea Alarm Time	10 s, 15 s, 2	20 s, 25 s, 30 s, 35 s,	40 s					
NIBP								
EDAN Module								
Method	Oscillometry							
Mode	Manual, Auto, Continuous, Sequence							
Measuring Interval in	1/2/3/4/5/10)/15/30/60/90/120/18	0/240/360/480 min	and User Define				
Auto Mode	1/2/3/4/3/10	0/15/50/00/90/120/10	5/240/300/460 IIIIII	and Oser Deline				
Continuous	5 min, inter	val is 5 s						
Measuring Type	SYS, DIA, I	MAP, PR						
		SYS: 25 mmHg	to 290 mmHg					
	Adult Mode	DIA: 10 mmHg	DIA: 10 mmHg to 250 mmHg					
		MAP: 15 mmHg	MAP: 15 mmHg to 260 mmHg					
	Pediatric	SYS: 25 mmHg	_					
Measuring Range	Mode		DIA: 10 mmHg to 200 mmHg					
			MAP: 15 mmHg to 215 mmHg					
	Neonatal	SYS: 25 mmHg	•					
	Mode	DIA: 10 mmHg to 115 mmHg						
0 " "	0 11 1	MAP: 15 mmHg	to 125 mmHg					
Cuff Pressure 0 mmHg to 300 mmHg								



Measuring Range					
Pressure Resolution	1 mmHg				
Maximum Mean Error	±5 mmHg				
Maximum Standard Deviation	8 mmHg				
Maximum Measuring	Adult/ Pediatric	120 s			
Period	Neonatal	90 s			
Typical Measuring Period	20 s to 35 s (de	pend on HR/motion disturbance)			
	Adult	297±3 mmHg			
Overpressure	Pediatric	245±3 mmHg			
Protection	Neonatal	147±3 mmHg			
PR					
Measuring range	40 bpm to 240 b	ppm			
Accuracy	±3 bpm or 3.5%	, whichever is greater			
SunTech Module					
Method	Oscillometric				
Mode	Manual, Auto, Continuous, Sequence				
Measuring Interval in AUTO Mode	1/2/3/4/5/10/15/30/60/90/120/180/240/360/480 and User Define				
Measuring Type	SYS, DIA, MAP, PR				
	Adult Mode	SYS: 40 mmHg to 260 mmHg DIA: 20 mmHg to 200 mmHg MAP: 26 mmHg to 220 mmHg			
Measuring Range	Pediatric Mode	SYS: 40 mmHg to 230 mmHg DIA: 20 mmHg to 160 mmHg MAP: 26 mmHg to 183 mmHg			
	Neonatal Mode	SYS: 40 mmHg to 130 mmHg DIA: 20 mmHg to 100 mmHg MAP: 26 mmHg to 110 mmHg			
Pressure Resolution	1 mmHg				
Maximum mean error	±5 mmHg				
Maximum standard deviation	8 mmHg				
Mavingues	Adult	130 s			
Maximum measuring	Pediatric	90s			
period	Neonate	75 s			
Overpressure	Adult/Pediatric	< 300 mmHg			
protection	Neonate	< 150 mmHg			
PR					



Measuring range	30 bpm to 220 bpm				
Accuracy	±3 bpm or ±2%, whichever is greater				
SpO ₂					
EDAN Module					
Measuring Range	0% to 100%				
Resolution	1%				
Data update period	1 s				
	Adult/Pediatric ±2% (70% to 100% SpO ₂)				
Accuracy	Addit/Pediatric	Undefined (0% to 69% SpO ₂)			
Accuracy	Neonatal	±3% (70% to 100% SpO ₂)			
	Neonatai	Undefined (0% to 69% Sp0	O ₂)		
SI (Signal Intensity)					
Measuring Range	0-10				
Resolution	1				
Pulse Rate					
Measuring Range	25 bpm to 300 b	opm			
Resolution	1 bpm				
Accuracy	±2 bpm				
Nellcor Module					
Measuring Range	1% to 100%				
Resolution	1%				
Data Update Period	1 s				
	DS-100A, OXI-A/N(Adult)				
	D-YS (Adult and	d Pediatric)	±3% (70% to 100% SpO ₂)		
	OXI-P/I (Pediatr	ric)			
	MAX-A, MAX-A	L, MAX-N, MAX-P, MAX-I,	±2% (70%~100% SpO ₂)		
Accuracy	,	ult and Pediatric)	1270 (1070 10070 SpG2)		
	MAX-A, MAX-A	L, MAX-N, MAX-P, MAX-I,	±3% (60%~80% SpO ₂)		
	,	ult and Pediatric)	1070 (0070 0070 SpC2)		
		d for neonate as recommend	ed, the accuracy will be larger than adult		
	by ±1.				
Pulse Rate					
Measuring Range	20 bpm to 300 b	opm			
Resolution	1 bpm				
Accuracy	±3 bpm (20 bpn	n to 250 bpm)			
TEMP					
Channel	2				
Sensor type	YSI-10K and YS				
Technique	Thermal resista	nce			
Measure Parameter	T1, T2, TD				



Position Skin, Oral, Rectum Unit °C, °F Measuring Range 0°C to 50°C (32 °F to 122 °F) Resolution 0.1°C (0.1 °F) Accuracy Accuracy (not including sensor): ±0.1°C Sensor accuracy: ≤ ±0.2°C Transient Response Time ≤30 s IBP Channel 2 Technique Direct invasive measurement Art 0 mmHg to +300 mmHg PA -6 mmHg to +120mmHg CVP/RAP/LAP/ICP -10 mmHg to +40 mmHg						
Measuring Range 0°C to 50°C (32 °F to 122 °F) Resolution 0.1°C (0.1 °F) Accuracy Accuracy (not including sensor): ±0.1°C Sensor accuracy: ≤ ±0.2°C Transient Response Time ≤30 s IBP Channel 2 Technique Direct invasive measurement Art 0 mmHg to +300 mmHg PA -6 mmHg to +120mmHg CVP/RAP/LAP/ICP -10 mmHg to +40 mmHg						
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Accuracy (not including sensor): ±0.1°C Sensor accuracy: ≤ ±0.2°C Transient Response Time Sensor accuracy: ≤ ±0.2°C Transient Response Time Sensor accuracy: ≤ ±0.2°C Sensor accuracy: ≤ ±0.2°C Sensor accuracy: ≤ ±0.1°C Sensor accuracy: ≤ ±0.2°C Implication accuracy: ≤ ±0.2°C Sensor accuracy: ≤ ±0.2°C Sensor accuracy: ≤ ±0.2°C Implication accuracy: ≤ ±0.2°C Sensor accuracy: ≤ ±0.2°C						
Accuracy Sensor accuracy: ≤ ±0.2°C Transient Response Time ≤30 s IBP Channel 2 Technique Direct invasive measurement Art 0 mmHg to +300 mmHg PA -6 mmHg to +120mmHg CVP/RAP/LAP/ICP -10 mmHg to +40 mmHg						
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Measuring range PA -6 mmHg to +120mmHg CVP/RAP/LAP/ICP -10 mmHg to +40 mmHg						
Measuring range CVP/RAP/LAP/ICP -10 mmHg to +40 mmHg						
CVP/RAP/LAP/ICP -10 mmHg to +40 mmHg						
P1/P2 -50 mmHg to +300 mmHg						
Resolution 1 mmHg						
Accuracy ±2% or ±1 mmHg, whichever is greate						
(not including sensor)						
Unit kPa, mmHg, cmH₂O	kPa, mmHg, cmH₂O					
PR						
Measuring Range 20 bpm to 300 bpm	20 bpm to 300 bpm					
Resolution 1 bpm	1 bpm					
30 bpm to 300 bpm: ±2 bpm or ±2%, whichever is greater;						
Accuracy 20 bpm to 29 bpm: undefined						
CO ₂						
EDAN G2 Module						
Intended patient Adult, Pediatric, Neonatal						
Measure Parameters EtCO ₂ , FiCO ₂ , AwRR						
Unit mmHg, %, kPa						
Magauring Banga CO ₂ 0 mmHg to 150 mmHg (0% to 20%)						
Measuring Range AwRR 2 rpm to 150 rpm						
EtCO ₂ 1 mmHg						
Resolution FiCO ₂ 1 mmHg						
AwRR 1 rpm						
±2 mmHg, 0 to 40 mmHg Typical conditions:						
±5% of reading, 41 to 70 mmHg Ambient temperature:	25±3°C					
±8% of reading, 71 to 100 mmHg Barometric pressure: 7	760±10					
mmHq						
±10% of reading, 101 to 150 Balance gas: N ₂						
mmHg Sample gas flowrate: 1	1001/!					



		±12% of reading or ±4 mmHg,						
		whichever is greater	All conditions					
	AwRR	±1 rpm						
Sample Gas Flowrate	70 ml/min or 100 ml/min, accuracy: ±15 ml/min							
Marro un timo	Display wavet	Display waveform within 20 s						
Warm-up time	Reach the de	Reach the design accuracy within 2 minutes.						
Response time	<4 s	4 s						
Barometric pressure	Automotio							
compensation	Automatic	Automatic						
Zero Calibration	Support							
Calibration	Support							
Apnea alarm delay	10 s, 15 s, 20	s, 25 s, 30 s, 35 s, 40 s						
Respironics Module								
Applicable Patient Type	Adult, Pedia	atric and Neonatal						
Method	Infra-red Ab	osorption Technique						
Measure Parameters	EtCO ₂ , FiC	O ₂ , AwRR						
Unit	mmHg/ %/	mmHg/ %/ kPa						
Measuring Range	EtCO ₂	0 mmHg to 150 mmHg						
Weasumy Name	FiCO ₂	3 mmHg to 50 mmHg						
Measuring Range	AwRR	2 rpm to 150 rpm (Sidestream)						
Wicasumg Nange Awrit		0 rpm to 150 rpm (Mainstream)						
	EtCO ₂	1 mmHg						
Resolution	FiCO ₂	1 mmHg						
	AwRR	1 rpm						
		±2 mmHg, 0 mmHg to 40 mmHg						
		±5% of reading, 41 mmHg to 70 mmHg						
		±8% of reading, 71 mmHg to 100 mmHg						
Accuracy	EtCO ₂	±10% of reading, 101 mmHg to 150 mmHg						
7 (664) 469		±12% of reading, RR is over 80 rpm (Sidestream)						
		There will be no degradation in perf	formance due to respiration rate.					
		(mainstream)						
	AwRR	±1 rpm						
Sample Gas Flow Rate		50 ml /min ±10 ml /min						
(Sidestream)		33 Hii /Hiii 2 To Hii /Hiii						
Barometric Pressure Co	•	User setup						
CO ₂ Rise Time/Respon	se Time	< 60 ms						
(Mainstream)								
Sensor Response time (Sidestream)		<3 seconds - includes transport time and rise time						
Zero Calibration		Support						
Zero Calibration		Support						



Apnea Alarm Delay		10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s				
Masimo Module						
Applicable Patient Type		Adult, Pediatric and Neonatal				
Method	Method		d Absorption Technique			
Measure Parameters		EtCO ₂ ,	FiCO ₂ , AwRR			
Unit		mmHg,	mmHg, %, kPa			
Maranian Danas		CO ₂	0 to 25 vol%			
Measuring Range		AwRR	AwRR 0 to 150 rpm			
D 1.0		CO ₂	CO ₂ 0.1%			
Resolution		AwRR	1 rpm			
		00	0 to15 vol%: ± 0.2 vol9	% + 2% of reading		
Accuracy		CO ₂	15 to25 vol%: Unspeci	ified		
-		AwRR	± 1 rpm			
Sample Gas Flow Rate (Sidestream)	50 (± 10)) ml/min			
Warm-up Time	·	< 10s				
CO ₂ Response Time (Ma	instream)	< 1s				
Sensor Response time (Sidestream)	< 3s				
Zero Calibration		Support				
C.O.						
Technique	Thermodilu	Thermodilution Technique				
Measure Parameters	C.O., TB, T					
Measuring Range	C.O.					
	ТВ	23°C to 43°C (73.4°F to 109.4°F)				
Measuring Range	TI	-1°C to	27°C (30.2°F to 80.6°F)			
D 1."	C.O.	0.1 L/min				
Resolution	TB, TI	0.1° C (+0.1 °F)				
	C.O.	±5% or	±0.2 l/min, whichever is	greater		
Accuracy	ТВ	±0.1° C	(not including sensor)	-		
·	TI		(not including sensor)			
AG			· · · ·			
Edan G7 Module						
Intended Patient	Adult, pedia	itric, neor	natal			
	Halothane ((HAL), Isoflurane (ISO), Enflurane (ENF), Sevoflurane (SEV),				
Measure Parameters	Desflurane (DES), CO ₂ , O ₂ , N ₂ O, AwRR, and MAC					
		ENF, SEV, DES, N ₂ O: %;				
Unit	CO ₂ , O ₂ : mi	mHg, %,	kPa, default is %;			
	AwRR: bpm	•				
	CO ₂			0~15 vol%		
Measuring Range	N ₂ O			0~100 vol%		
	Halothane/	Enflurane	e/ Isoflurane	0~8 vol%		



	Sevoflurane		0~10 vol%			
	Desflurane			0~22 vol%		
	O ₂				0~100%	
Resolution	N ₂ O, O ₂				1%	
Resolution	CO ₂ , AG				0.1%	
	Measureme	nt ra	ange		2 ~ 150 rpm	
AwRR	Measuring accuracy			±1 bpm (120 bpm and below), Not specified (120 bpm above)		
	Resolution				1 rpm	
Sampling Flow Rate	150 ml/min,	acc	uracy ±15 m	l/min		
Warm-up Time	Display read	ding	within 20 s;	reach to th	e designed accuracy within 2 minutes	
Response Time	< 4 s (with 2	2 m g	gas sampling	tube, sam	ple gas flowrate: 150 ml/min)	
Masimo Module						
	ISA A X +			e concentration of CO_2 , N_2O , and two stifying the anesthesia agent automatically		
Module Type	anesthesia ag IRMA AX+		Sidestream, Displaying the concentration of CO ₂ , O ₂ , N ₂ O, and two anesthesia agent and identifying the anesthesia agent automatically			
				splaying the concentration of CO_2 , N_2O and two ent and identifying two anesthesia agents		
Measurement	, the state of the			AL), Isoflur	ane (ISO), Enflurane (ENF), Sevoflurane	
Parameters	(SEV), Dest	flura	ne (DES), Av	vRR, MAC		
	CO ₂ , N ₂ O, A	۱A	Infra-red ab	sorption cl	naracteristic	
Measurement Principle	O ₂		Paramagne	etic method		
Sampling Flow Rate (sidestream)	50 ± 10 ml/min					
Compensations	Automatic c	omp	ensation for	pressure,	temperature, and broadening effects on CO_2 .	
Warm-up Time	< 20 s					
	CO ₂			0 to 25 vol%		
	O ₂			0 to 100 vol%		
Measurement Range	N ₂ O			0 to 100 vol%		
	HAL, ENF, I	SO,	SEV, DES	0-25 vol%		
	AwRR		0 rpm to 150 rpm			
	CO ₂ :		0.1%			
	HAL, ENF, I	SO,	SEV, DES	0.1%		
Resolution	N ₂ O			1%		
	O ₂		1%			
	AwRR		1 rpm			
Accuracy	CO ₂		0 to 15 vol	%	± (0.2 vol% + 2% of reading)	



(Standard Conditions)			15 to 25 vol%		Unspecified	
	N ₂ O		0 to 100 vol%		± (2 vol% + 2% of reading)	
	HAL, ENF, ISO SEV		0 to 8 vol %		± (0.15 vol% + 5% of reading)	
			8 to 25 vol %		Unspecified	
			0 to 10 vol %		± (0.15 vol% + 5% of reading)	
			10 to 25 vol %		Unspecified	
	DES O ₂		0 to 22 vol %		± (0.15 vol% + 5% of reading)	
			22 to 25 vol %		Unspecified	
			0 to 100 vol %		± (1 vol% + 2% of reading)	
AwRR Accuracy	±1 rpm					
Apnea Alarm Delay	20 s, 25 s, 30 s, 35 s, 40 s					
Safety Specifications						
IE		IEC	60601-1: 2005+	A1 :20	12; IEC 60601-1-2: 2014;	
Compliant with Standards		EN 60601-1: 2006+A1 :2013; EN 60601-1-2: 2015;				
			60601-2-49: 201	1		
Anti-electroshock Type		Clas	ss I equipment ar	nd inte	rnal powered equipment	
Anti-electroshock Degree)	CF				
Ingress Protection		IPX	X1			
Environmental Specifi	cations					
Tomporatura	Working		+0°		+0°C to +40°C (32°F ~ 104°F)	
Temperature	Transport and Storage		-20°C to +55°C (-4°F ~ 131°F)			
Llumidity	Working	Working		15%RH to 95%RH (non-condensing)		
Humidity	Transport an	nd St	torage	15%F	RH to 95%RH (non-condensing)	
A lata and a	Working			86 kPa to 106 kPa		
Altitude	Transport and Storage		70 kPa to 106 kPa			

^{*} Specifications are subject to change without prior notice

