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C 30

PATIENT MONITOR

CE 1639

Configuration	Standard Configuration	5-lead ECG, RESP, Dual-Temp, Comen SpO2, NIBP, EtCO2 (Without sensor)
	Optional	3/12-lead ECG, Suntech NIBP, Masimo/Nellcor SpO2, First aid kit (with backup battery)
Safety Standards	MDD 2007/47/EC, Directive 2011/65/EU, ISO 780, EN 1041, EN 1060-1, EN1060-3, EN ISO 10993-1, EN ISO 10993-5, EN ISO 10993-10, ISO 13485, EN ISO 14971, EN 15223-1, IEC 60529, IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, IEC 60601-1-8, IEC 60601-2-27, IEC 60601-2-30, IEC 60601-2-49, IEC 60601-2-56, IEC 60601-2-61, EN 62366	
Physical Characteristics	Size	190mm*82mm*105mm
	Weight	1,5kg
	Screen Size	4.3” TFT touch screen
	Resolution	480×272
	IP grade	IPX1
	Waveforms	2 waveforms
Operation Environment	Temperature	5-40°C
	Humidity	≤93%
	Power requirement	100-240V~, 50/60Hz
	Battery Type	Rechargeable Lithium-ion battery
	Battery Capacity	2600mAh
	Battery Recharging Time	Maximum 6 hours for charging
	Battery backup	2 hours for continuous working
	Brightness	Manual from 10 to 100
Indicator	Two alarm indicators	
	Power indicator	
	Battery indicator	
	QRS beep and alarm sound	
	Operating key sound, Key backlight	
Interfacing	DC power input	
	RJ45 network interface	
	Parameter cable interface	
	Multi-functional connector	
Data storage	Alarm Event Recall	200 groups
	Wave Recall	48 hours (8 waves)
	NIBP Recall	2000 groups
	Trend Graph	160 hours
	Trend Table	160 hours
	Power-off storage	Yes
	Alarm	User-adjustable High and Low 3-level Limits Prioritized audible and visual alarm
Respiration	Method	RA-LL Impedance Method
	RR measurement range	Adult: 0-120rpm Pediatric/Neonate: 0 -150rpm
	Accuracy	7-150rpm: ±2rpm or ±2% (whichever is greater) 0-6rpm: unspecified
	RESP Apnea	Adult: 10s-60s Ped/Neo: 10s~40s Accuracy: 5s
	Alarm	Audible and visual alarm; alarm events reviewable
	Sweep Speed	6.25,12.5, 25mm/s
	Gain Selection	X0.25, X0.5, X1, X2, X4

ECG	Lead Type	Cardio Tec™ 5-leads ECG Analysis, 12 Lead and 3 lead selectable
	Lead selection	12-Lead I; II; III; aVR; aVL; aVF; V1-V6 5-lead: I; II; III; aVR; aVL; aVF; V 3-lead: I; II; III
	Waveform	5-lead: 2 -channel 3-lead: 1 -channel
	Gain Selection	X0.125, X0.25, X0.5, X1, X2, X4, auto error <±5%
	Sweep Speed	6.25, 12.25, 25, 50mm/s, error ≤±10%
	Resp, lead disconnection detection and active noise control	AC waveform: Current :<0.1μA Frequency 64kHz, ±10%
	Heart Rate measurement Range	Adult: 15~300bpm - Pediatric/Neonate:15~350bpm
	Accuracy	±1% or ±1bpm (whichever is greater)
	Protection	Withstand 4000VAC/50Hz voltage in isolation, Against electrosurgical interference and defibrillation
	Band width	Monitoring Mode: 0.5-40Hz Diagnosis mode: 0.05-150Hz Surgery mode:1-20Hz ST mode: 0.05-40Hz
	ST Segment Detection	-2.0mV~+2.0mV (Automatic)
	Arrhythmia Analysis	26 types
	Pacemaker detection	Detectable
	Alarm	Yes, audible and visual alarm, alarm events reviewable
	12 lead ECG Analysis	Yes
NIBP	Method	Automatic oscillation
	Work mode	Manual / Automatic / Continual (5min, not applicable to neonates)
	Measurement Time	Adjustable (1-480min)
	Measurement Unit	mmHg/kPa selectable
	Measurement types	Systolic, Diastolic, Mean
	Range of systolic pressure	Adult Mode: 40-270mmHg - Pediatric Mode: 40-200mmHg Neonate Mode: 40-135mmHg
	Range of diastolic pressure	Adult Mode: 10-215mmHg - Pediatric Mode: 10-150mmHg Neonate Mode: 10-100mmHg
	Range of mean pressure	Adult Mode:20-235mmHg - Pediatric Mode:20-165mmHg Neonate Mode 20-110mmHg
	Static pressure range and accuracy	0~300mmHg (0kPa~40.0kPa) ±3mmHg (±0.4kPa)
	Over-pressure protection	Adult Mode: 297mmHg Pediatric Mode: 240mmHg Neonate Mode: 147mmHg Accuracy: ±3mmHg
	Initial pressure range (mmHg):	Adult: 80~240 - Pediatric: 80~200 - Neonate:60~120
	Alarm	Systolic, Diastolic, Mean
	PR from NIBP	Measurement & alarm range : 40-240bpm Resolution : 1bpm Accuracy : ±3bpm or ±3% (whichever is greater)
Nellcor SpO_2	Measurement range	0-100%
	Alarm range	20%~100%
	Resolution	1%
	Accuracy	±2% (70~100%, Ped/Adu, non-motion) ±3% (70~100%, Neo, non-motion) 0-69% unspecified
	PR Measurement Range	20-300bpm
	Resolution	1bpm
	Accuracy	±3bpm (20-250bpm) ; unspecified (251-300bpm)
	Alarm range	20~300bpm

Masimo SpO_2	Measurement & alarm range	1~100%
	Resolution	1%
	Accuracy	±2% (70~100%, Ped/Adu, non-motion) ±3% (70~100%, Neo, non-motion); 1-69% unspecified
	PR Measurement Range	25~240bpm
	Resolution	1bpm
	Accuracy	±3bpm (non-motion) - ±5bpm (motion)
	Alarm range	25~240bpm
	Perfusion index	0.02%~20%
	Resolution	0.01% (within 0.02%~9.99% range) or 0.1% (within 10.0%~20.0% range)
Comen SpO_2	Measurement & alarm range	1~100%
	Resolution	1%
	Accuracy	±2% (70~100%, Ped/Adu, non-motion) ±3% (70-100%, Neo, non-motion) 1-69% unspecified
	Data averaging and other signal processing time	2s
	Data refresh rate	8s
	PR Measurement Range	20-254bpm
	Resolution	1bpm
	Accuracy	±2bpm
	Alarm range	20~254bpm
	Perfusion index	0.05%~20 %
	Resolution	0.01% (within 0.05%~9.99% range) or 0.1% (within 10.0%~20.0% range)
Temperature (Dual Channel)	Measurement & alarm range	0~50°C
	TEMP sensor	Standard configuration- skin TEMP sensor
	Resolution	0.1°C
	Accuracy	±0.1°C (exclusive of error of sensor)
	Channel type	T1, T2, TD (Temperature Difference)
EtCO2	Unit	mmHg, kPa
	Measurement range	0mmHg~150mmHg
	Resolution	1mmHg or 1kPa or 0.1%
	Accuracy	0mmHg ~40mmHg should be±2mmHg; 41mmHg ~70mmHg should be±5%×reading; 71mmHg ~100mmHg should be±8%×reading; 101mmHg~150mmHg should be±10%×reading
	Oxygen compensation	0~100mmHg
	Equilibrium gas	Helium, room air, nitrous oxide

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