Patient Monitor C80 and C86

Standard Configuration:

12-lead ECG,RESP,Dual-Temp,SPO2,NIBP,Reserved EtCO2 interface

Optional Configuration:

Dual-IBP, EtCO2 module,AG,ICG,C.O., qCON, Nellcor SPO2, Comen SPO2, Thermal Recorder

Safety Standards

FDA / ISO 13485:2003 approved, CE marking according to MDD93/42/EEC

Physical Characteristics

ProductSize:	344.5mm×291 mm×165mm
Net Weight:	4.8kg

Operation Environment

working Temperature:	0-40
Humidity:	15-85%
Power Supply:	AC100-240V, 50/60Hz±1Hz
Battery Type:	Rechargeable plug & play batteryLithium-ion
Battery Capacity:	4000mA
Battery Recharging	Maximum 6.5 hours for charging;

Time:

Battery backup:	4 hours for continuous working
Display（C80）:	**12.1" color TFT touch screen**
Display（C86）:	**15" color TFT touch screen**
Resolution（C80）:	800*600
Resolution（C86）:	1024*768
Trace:	12 waveforms

Indicator

Dual alarm indicator lights

Power indicator light

Battery indicator light

QRS beep and alarm sound

Operating key sound

Interface

Parameter cable interface

AC power input socket

Software upgrade through networking port   or USB port

USB/SD port

RJ45 port

Nurse call port

Data storage

Alarm Event Recall:	500 groups（120hours）
Wave Recall:	30 mins
NIBP Recall:	2000 groups
Trend Graph:	120 hours
Trend Table:	120 hours
Power-off storage	Yes
Alarm:	User-adjustable High and Low 3-levelLimits ; Prioritized audible and visual alarm
Network:	Connected to Central Monitoring System by hardwire/wireless

Recorder

Type:	Built-in; thermal array
Channel:	2 waveforms
Speed:	Speed:25mm/s,50mm/s
Record width:	Record width:50mm

Respiration

Method:	Thoracic impedance
RR measurement range:	Adult: 0-120bpm
	Pediatric/Neonate:0-150bpm
Resolution:	±1 rpm
RESP Apnea Alarm:	10s-60s， ,10s-20s
Alarm:	Audible and visual alarm; alarm events recallable
Sweep Speed:	6.25,12.5,25mm/s
Gain Selection:	X0.25, X0.5, X1, X2, X4

ECG

Lead Type：	CardioTecTM 12-leads ECG Analysis, 5 Lead and 3 leadselectable
12-lead cable：	I; II; III; aVR; aVL;aVF; V1-V6.
5-lead cable:	RA; LA; RL; LL; V or R; L; N; F; C
3-lead cable:	RA; LA; LL or R; L; F
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
Gain Selection:	X0.25,X0.25, X0.5, X1, X2,X4, auto
Sweep Speed：	6.25,12.5, 25, 50mm/s
Heart Rate Range:	Adult: 15-300bpm
	Pediatric/Neonate:15-350bpm
Resolution:	1 bpm
Protection:	Withstand 4000VAC/50Hz voltage in isolation; Against electrosurgical interference and defibrillation;
Accuracy:	±1% or ±2bpm (whichever is greater)

Bandwidth :	MON Mode:0.5 Hz～40 Hz DIA Mode: 0.05Hz～130 Hz OPE Mode:1 Hz～20 Hz ST Mode:0.2Hz～40Hz
STSEGMENT detection:	-2.0mV - +2.0Mv (Automatic)
Arrhythmia analysis :	Yes
pacemaker detection:	detectable

NIBP

Method	Automatic oscillometric
Work mode:	Manual / Automatic/Continuous
Auto measure 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
Over-pressure protection:	both Hardware and software over pressure protection
Accuracy:	Less than ±5mmHg
Resolution：	1mmHg
Alarm:	Systolic, Diastolic, Mean
PR from NIBP:	40-240bpm

Nellcor SPO2

Measurement & alarm range:	0~100%
Resolution:	1%
Accuracy:	±2% (70-100%, MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST sensors); ±3% (70-100%, D-YS, DS-100A, OXI-A/N and OXI-P/I sensors); 0-69% unspecified
Alarm range	0~100%
PR Measurement Range:	20~300bpm
Resolution:	1bpm
Accuracy:	±3bpm

Alarm range:	20-250bpm

Masimo SPO2

Measurement & alarm range	1~100%
Resolution:	1%
Accuracy:	±2% (70~100%,Ped, non-motion+
	±3% (70-100%, Neo, non-motion);
	0-69% unspecified
Alarm range	1~100%
Pulse rate:	Range: 25~240bpm
	Resolution:1bpm
	Accuracy: ±3bpm(non-motion)
	±5bpm(motion)
	Alarm range:25~240bpm

Comen SPO2

Measurement & alarm range	0~100%
Resolution:	1%
Accuracy:	±2% (70~100%,Ped, non-motion+
	±3% (70-100%, Neo, non-motion);
	0-69% unspecified
Alarm range	0~100%
	Range: 20~300bpm
	Resolution:1bpm
	Accuracy: ±3bpm(non-motion)
	±5bpm(motion)

Temperature (Dual Channel)

Measurement 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:	T1, T2, TD (Temperature Difference)

EtCO2(Sidestream)

CO2 Measurement Range:	0 -150 mm Hg, 0 to 79%, 0 to 20kPa (at 760mmHg)
Accuracy:	± 2 mm Hg (0 – 40 mm Hg)
	± 5% of reading (41 – 70 mm Hg)
	± 8% of reading (71 –100 mm Hg)
	± 10% of reading (101 –150 mm Hg)
Respiration rate:	2-120bpm
Respiration rate accuracy:	±2rpm (0-70rpm)
	±5rpm (＞70rpm)
Response time:	＜240msec (10% to 90%)
Delay time:	＜2s

EtCO2(mainstream)

CO2 Measurement Range:	0 -150 mm Hg, 0 to 79%, 0 to 20kPa (at 760mmHg)

Accuracy:	± 2 mm Hg (0 – 40 mm Hg)
	± 5% of reading (41 – 70 mm Hg)
	± 8% of reading (71 –100 mm Hg)
	± 10% of reading (101 –150 mm Hg)
Respiration rate:	0-120bpm
Respiration rate accuracy:	±2rpm (0-70rpm)
	±5rpm (＞70rpm)
Delay time:	＜2s

IBP

Measured Pressure	ART,PA,CVP,RAP,LAP,ICP,P1，P2
Measurement Range:	-10mmHg~300mmHg
IBP Accuracy:	0~100mmHg　　±4mmHg
	100mmHg~300mmHg　±2%
Pulse Accuracy:	±1% or ±1bpm, whichever is greater
Alarm Range:	-50mmHg~300mmHg

Multi-Gas/O2

Method:	Infrared Absorption
Gas sorts:	CO2,N2O,Des,Iso,Enf,Sev,Hal,O2 (optional paramagnetic sensor)
Measurement range:	CO2 : 0-15 vol%　±(0.2 vol% + 2 % of the reading)
	N2O: 0-100 vol%　±(2 vol% + 2 % of the reading)
	HAL, ISO, ENF: 0-8 vol%　±(0.15 vol% + ! % of the reading)
	SEV : 0-10 vol%　±(0.15 vol% + 5 % of the reading)
	DES: 0-22 vol%　±(0.15 vol% + 5 % of th reading)
	O2: 0-100vol%　±(1 vol% + 2 % of the reading)
Data output:	Fi and Et values
Respiratory rate:	0-150 bpm
Preheating time:	ISA CO2：< 10s，ISA OR+/AX+：< 20s
Alarm:	User selectable alarm limits for all measurement
others:	Up to 4 waveforms displayed
	Agent mixture detection
	MAC value displayed

Cardiac Output(C.O.)

Method:	Thermodilution
Measurement range:	C.O.：0.1~20L/min
	BT: 25~43
	IT: 0~27
Resolution:	C.O.：0.1L/min
	BT、IT:0.1

Accuracy:	C.O.: ±5% or ±0.1 L/min, whichever is greater	Total index update time	10s
	BT、IT:±0.1 （no sensor）	EEG	± 475 µV
Alarm Range:	BT Hi limit: (LO limit +0.1) ～43	BSR (Burst Suppression)	Curve, index of 0-100%
	BT Lo limit:23.0～(Hi limit-0.1)		
	Step: 0.1	EMG	Curve, index of 0-100

Impedance Cardiography(ICG)

		Index tend	15 minuts
Method:	Thoracic Bio-impedance measurement	SQI (Signal Quality Index)	Curve, index of 0-100
Measurement range:	SV：5～250 ml/b		
	HR：40～250 bpm	Visual and audio alarms	Yes
	C.O.: 1.4～15L/min		
Accuracy:	SV：unspecified	Test system of impedance at the electrodes	Yes
	HR： ±2bpm		
	C.O：unspecified		
Alarm range:	CI: HI (LO＋0.1) ～15.0 L/min/m2	Data logging	qCON, EMG, EEG, BSR, SQI, impedances and comments posted by the user
	LO 0～(HI－0.1)L/min/m2		
	TFC: HI (LO＋1) ～150/KΩ		
	LO 10～(HI－1) KΩ	EEG Sampling frequency	1024 Hz, 16 bits
Alarm Deviation	CI:±01. L/min/m2		
	TFC:±1 KΩ	CMRR	>100 dB

Index of consciousness (IOC) / Index of consciousness(qCON)

Index and display update	qCON 0-99, 1s.