



PATIENT MONITOR C50

SPECIFICATION

User interface: 10.4" colour TFT touch screen with trim knob & quick access keys

Standard configuration: ECG, Resp, SpO₂, NIBP, PR, 1 Temp

Optional configuration: 2 Temp, 2 IBP, EtCO₂, Cardiac Output, thermal recorder
7 waveforms

US FDA & CE certified

Up to 2.5 hours battery back-up

Calculation packages: Drugs & hemodynamics

Networking: Option of wired or wireless networking

STANDARD CONFIGURATION

3/5 Lead ECG, RESP, COMEN SpO₂, NIBP, PR, 1 Temp

OPTIONAL CONFIGURATION

Dual Temp, Dual-IBP, AG, EtCO₂ module, C.O., thermal record

SAFETY STANDARDS

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

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Product Size: 291.7mm×250 mm×146.5mm

Weight: 4.3kg

OPERATION ENVIRONMENT

Temperature: 5-40°C

Humidity: ≤93%

Power Supply: 100-240V~, 50/60Hz

Battery Type: Rechargeable plug & play battery, Lithium-ion

Battery Capacity: 2200mA

Battery Recharging Time: Maximum 3.5 hours for charging

Battery Working Time: 2.5 hours for continuous working

PERFORMANCE SPECIFICATIONS

Patient Range: Adult, Pediatric, Neonatal

Display: 10.4" color TFT touch screen

Resolution: 800x600

Trace: 7 waveforms

Indicator: One 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 port, RJ45 port, Nurse call port

Alarm Event Recall: 500 groups

Wave Recall: 6 hours

NIBP Recall: 2000 groups

Trend Graph: 120 hours

Trend Table: 120 hours

Network: Connected to Central Monitoring System by hardwire / wireless

User: Adjustable high and low, 3-level limits

Alarm: Prioritized audible and visual alarm

Recorder:

Type: Built-in thermal array

Channel: 3 waveforms

Speed: 25mm/s, 50mm/s

Record Width: 50mm

Data: Power-off storage

TEMPERATURE (Dual Channel)

Measurement range: 0-50°C (32 to 122°F)

Resolution: 0.1°C

Accuracy: ±0.1°C (without probe)

Channel: 2 channels, T1, T2, TD (temperature difference)

ECG

Lead Type:

CardioTec™ 5 Lead and 3 lead selectable

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:

5-lead: I; II; III; aVR; aVL; aVF; V

3-lead: I; II; III

Gain Selection: X0.125, X0.25, X0.5, X1, X2, X4, auto

Sweep Speed: 6.25, 12.5, 25, and 50mm/s

Heart Rate Range:

Adult: 15-300 bpm

Pediatric/Neonate: 15-350 bpm

Resolution: 1 bpm

Protection: Withstand 4000VAC/50Hz voltage in isolation; against electrosurgical interference and defibrillation

Accuracy: ±1% or ±1bpm (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: 0.05Hz~40Hz

ST SEGMENT detection: -2.0mV- +2.0mV

(Automatic)

Arrhythmia analysis: 16 types

Pacemaker detection: Detectable

RESPIRATION

Method: Impedance method

RR Measurement Range:

Adult: 0-120rpm

Pediatric/Neonate: 0 -150rpm

Resolution: ±1 rpm

RESP Apnea Alarm: 10s-60s (Adult); 10-20s

(Pediatric/Neonate)

Alarm: Audible and visual alarm; alarm events recallable

Sweep Speed: 6.25, 12.5, and 25mm/s

Gain Selection: X0.25, X0.5, X1, X2, X3, X4, X5

IBP

Method: Automatic oscillometric

Channel: 2 channels

Measured Pressure: ART, PA, CVP, RAP, LAP, ICP, P1, P2

Measurement Range:

ART: 0~300mmHg

PA: -6~120 mmHg

CVP: -10~40mmHg

RAP: -10~40mmHg

LAP: -10~40mmHg

ICP: -10~40mmHg

P1, P2: -50~300mmHg

Alarm Range: -50mmHg~300mmHg

Accuracy: ±2% or ±1mmHg (whichever is greater)

NIBP

Method: Automatic oscillometric

Work Mode: Manual/Automatic/Continuous

Auto Measure Time: Adjustable (1-480min)

Measurement Unit: mmHg/Kpa selectable

Measurement Types: Systolic, Diastolic, and 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 ± 5 mmHg

Resolution: 1mmHg

Alarm: Systolic, Diastolic, and Mean

PR from NIBP: 40-240 bpm

CARDIAC OUTPUT (C.O.)

Method: Thermodilution

Measurement Range:

C.O.: 0.1~20L/min

BT: 25~43°C

IT: 0~25°C

Resolution:

C.O.: 0.1L/min

BT, IT: 0.1°C

Accuracy:

C.O.: $\pm 5\%$ or ± 0.1 L/min (whichever is greater)

BT, IT: $\pm 0.1^\circ\text{C}$ (no sensor)

Alarm Range (C.O.):

BT Hi limit: (Lo limit +0.1) $\sim 43^\circ\text{C}$

BT Lo limit: (Hi limit-0.1) $\sim 25.0^\circ\text{C}$

Step: 0.1°C

COMEN SpO₂

Measurement & Alarm Range: 0~100%

Resolution: 1%

Accuracy:

$\pm 2\%$ (70~100%, Adult/Pediatrics, non-motion)

$\pm 3\%$ (70-100%, Neonate, non-motion) Unspecified (0-69%)

Alarm Range: 0~100%

Pulse Rate Range: 25~254bpm

Resolution: 1bpm

Accuracy: ± 2 bpm

NELLCOR SpO₂

Measurement and Alarm Range: 0~100%

Resolution: 1%

Accuracy: $\pm 2\%$ (70-100%, MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST sensors); $\pm 3\%$ (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: ± 3 bpm (20~250bpm); Unspecified (251-300bpm)

Alarm Range: 20-300bpm

MASIMO SpO₂

Measurement & Alarm Range: 1~100%

Resolution: 1%

Accuracy: $\pm 2\%$ (70~100%, Adult/Pediatrics, non-motion); $\pm 3\%$ (70-100%, Neonate, non-motion); $\pm 3\%$ (70-100%, Neonate, motion); Unspecified (0-69%)

Alarm Range: 1~100%

PR Measurement:

Range: 25~254bpm

Resolution: 1bpm

Accuracy: ± 2 bpm

COMEN EtCO₂ (Sidestream and Mainstream)

Measurement Range: 0 -150 mm Hg, 0 to 20%

Accuracy: ± 2 mm: Hg (0 - 40 mm Hg); $\pm 5\%$ of reading (41 - 70 mm Hg); $\pm 8\%$ of reading (71 -100 mm Hg); $\pm 10\%$ of reading (101 -150 mm Hg)

awRR Range: 0-150rpm

awRR Accuracy: ± 1 rpm

RESPIRONICS EtCO₂ (Sidestream and Mainstream)

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

Accuracy: ± 2 mm: Hg (0 - 40 mm Hg); $\pm 5\%$ of reading (41 - 70 mm Hg); $\pm 8\%$ of reading (71 -100 mm Hg); $\pm 10\%$ of reading (101 -150 mm Hg)

awRR Range: 0-150rpm

awRR Accuracy: ± 1 rpm

MASIMO EtCO₂ (Sidestream and Mainstream)

Measurement Range: 0 -190 mm Hg, 0 to 25% (at 760mmHg)

Accuracy: 0 mmHg ~ 114 mmHg: ± 1.52 mmHg+2%
awRR range: 114 mmHg ~ 190 mmHg: Not specified

awRR Accuracy: 0-150rpm ± 1 rpm

Response Time:

Sidestream <3:s (2 meter sampling line)

Mainstream <1s



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