

C50 Multi-parameter Patient Monitor

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Technical Specification

Safety

ISO 13485:2003 approved,
CE marking according to MDD93/42/EEC
Degree of protection against harmful ingress of water : IP×1

Operation Environment

Power: AC100-250V, 50/60Hz.
Temperature: 0-40℃
Humidity: 15-85%
Patient Range: Adult, Pediatric, Neonate

Physical Characteristics:

Dimension: 380mm×320mm×350mm
G.W: 6.5kg
N.W: 4.0kg

Performance Specifications

Display: 10.4 inch color TFT touchscreen (diagonal)

Resolution: 800×600

Trace: 12 waveforms

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

Indicator: Power indicator light

Battery indicator light

Inter face: Parameter cable interface

AC Power input socket

Network interface

External VGA interface

Alternate Display

Battery: Lithium-ion battery/Rechargeable

Plug & play battery, capacity: 4000Ma. above 4 hours working time

Trend time: 1~120 hours

Alarm: User-adjustable High and Low limits audible and visual alarm

Networking: Connected to central monitoring system

Recorder: Built-in, thermal array

Waveform: 2 channels

Record mode: manual, on alarm, time-defined, etc

Paper width: 50mm

Print speed: 12.5 mm/s, 25mm/s, 50mm/s

Internal Modules: Individual Modules

ECG module, SpO2 module, NIBP module,

Main control module and power supply module.

ECG

Lead selection: 3-lead, 5-lead, 12-lead

Gain selection: ×1/4、×1/2、×1、×2、Auto

Sweep speed: 12.5mm/s, 25mm/s, 50mm/s

Heart Rate Range

Adult: 15-300bpm

Pediatric/Neonate: 15-350bpm

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

Resolution: 1 bpm

ECG enlarge width:

MON: 0.5-40Hz

DIA: 0.05-130Hz

OPE: 1-20Hz

ECG waveform: 2 channels

ST SEGMENT detection: -2.0mV - +2.0mV (Automatic)

Arrhythmia analysis: yes

Electrode desquamation indicator: Voice & light indication

HR alarming time: ≤ 12s

PR from ECG:

Adult: 15-300bpm

Pediatric/Neonate: 15-350bpm

ECG noise level: ≤ 30 uV (P-P value)

ECG input loop current: 0.1 Ua

input impedance: > 5 MΩ

CMRR: ≥ 105 Db

Time constant:

Monitoring Mode ≥ 0.3s

Diagnostics Mode ≥ 3.2s

Anti-jamming: line frequency, electro-surgical interference and defibrillation

Arrhythmia Analysis and pacemaker detection

ECG cable: standard configuration ECG cable for Adult

Standard two ECG cables to support 12 leads ECG analysis

Alarm setting: Adjustable from lower to upper and automatic memory

SpO2

Measurement range: 0~100%

Resolution: 1%

Accuracy: ±2% (70-100%, Adult/Pediatric, non-motion);
±3% (70-100%, Neonate, non-motion);
±3% (70-100%, Adult/Pediatric/Neonate, motion)
0-69% unspecified

Alarm range: 1~100%

Pulse rate:

Range: 0~254bpm

Resolution: 1bpm

Accuracy: ±3bpm (non-motion)

±5bpm (motion)

Alarm range: 0-254bpm

NIBP

Method: Automatic oscillometric

Operation modes: Manual/Automatic/Continuous

Measurement unit: mmHg/kPa selectable

Measurement types: Systolic, Diastolic, Mean

Auto measure time: Adjustable

Measurement range:

Range of systolic pressure: Adult Mode 40 - 270 mmHg

Pediatric Mode 40 - 200 mmHg

Neonatal Mode 40 - 135 mmHg

Range of diastolic pressure: Adult Mode 10 - 210 mmHg

Pediatric Mode 10 - 150 mmHg

Neonatal Mode 10 - 100 mmHg

Range of mean pressure: Adult Mode 20 - 230 mmHg

Pediatric Mode 20 - 165 mmHg

Neonatal Mode 20 - 110 mmHg

Accuracy of blood pressure measurement

The mean error shall be less than ±5 mmHg

The standard deviation shall be less than 8 mmHg

Over-pressure protection: Double safety protection

Resolution: 1 mmHg

Alarm: Systolic, Diastolic, Mean

RESP

Method: R-F(RA-LL) impedance method

RR measurement range:

Adult: 7-120bpm

Neonate: 7-150bpm

Resolution: ±1 rpm

Accuracy: ±1rpm

Alarm setting: Adjustable from lower to upper and automatic memory

EtCO2

Sidestream CO2

CO2 Measurement Range: 0 - 150 mmHg, 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)

Sampling Rate: 50ml/min. ± 10ml/min

Sampling rate accuracy: 15%

Start-up time: <1 min, once the module starts up, it reaches ISO accuracy

Mode: 10 minutes after start-up, the module reaches full accuracy mode

Respiration rate: 0-120bpm

Respiration rate accuracy: ±2rpm (0-70rpm)

±5rpm (>70rpm)

Response time: <240msec (10% to 90%)

Delay time: <2s

(Sampling line length: 7 inches;

internal diameter: 0.055 inches;

sampling gas flow rate: 150ml/min)

Mainstream CO2

Method: Infrared Absorption

Measuring mode: Mainstream

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

Resolution: 0.1 mmHg 0 to 69 mmHg

0.25 mmHg 70 to 150 mmHg

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)



C50

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Shenzhen Comen Medical Instruments Co., Ltd.

Add: Floor 7, Block 5, 4th Industrial Park of Nanyou, Nanshan District, Shenzhen City 518052, China

Tel: +86-755-2640 8879 2641 9446 Fax: +86-755-2643 1232

Website: www.szcomen.com E-mail: info@szcomen.com



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Features

- 10.4" TFT Touch Screen.
- Operating methods: Trim knob/ keybutton, touch screen.
- Advanced patient file management system,
- High capacity storage, power-off data protection.
- Inclined screen for easy observation.



- Mounting solutions: vertical hanging, wall mounting, rolling stand.

- Complying with CE standards, integrated modular design and aluminum alloy structure gives better guarantee to product safety & stability.
- International pop design, splendid appearance, best craftsmanship.



- IPX1 waterproof design, good performance in various environment.

- I-Klok™ Intelligent alarm management, automatic-identification of alarm level. Self-adjust proper alarm time to reduce false alarms.



- Fixed handle, easy to move.



- 4000mAh Li-ion batteries, above 4 hours working time.



- Auto dust shield to prevent from foreign matters.



- Handwriting pen with slot Interfaces: SD card, USB, Network, VGA.

- ARR analysis, RESP Apnea Alarm, OxyCRG.
- CMRR≥105 dB, outstanding ECG anti-interference capability.

