

# STAR 8000C

## Patient Monitor

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### Safety

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

### Dimension and Weight

Dimension: 320mm×170mm×280mm  
Weight: 6kg

### Operation Environment

Power: AC100-250V, 50/60Hz.  
Temperature: 0-40°C  
Humidity: 15-85%

### Patient Range

Adult, Pediatric, Neonate patient

### Performance Specifications

**Display:** 12.1inch color TFT (diagonal)  
**Resolution:** 800x600  
**Trace:** 9 waveforms  
**Sweep Speed:** 12.5mm/s, 25mm/s, 50mm/s  
**Indicator:** Power indicator light  
Battery indicator light  
Alarm indicator light  
QRS beep and alarm sound  
**Inter face:** Parameter cable inter face  
AC Power input socket  
Network inter face  
**Battery:** lead-Acid /Rechargeable  
3 hours for continuous working  
**Trend time:** 1~120 hours  
**Alarm:** User-adjustable High and Low limits  
alarm events recallable  
audible and visual alarm  
**Networking:** Connected to central monitoring system  
**Recorder:** Built-in, thermal array,  
2 traces, paper width:50mm  
Record mode: manual, on alarm,  
time-defined  
Print speed: 12.5 mm/s, 25mm/s, 50mm/s

### ECG

**Lead selection:** 5-Lead and 3-lead selectable  
12-lead (including 3/5-lead) optional  
RA; LA; RL; LL; V 1-V6  
or R; L; N; F; C, C1-C6  
**5 leads** RA; LA; RL; LL; V or R; L; N; F; C,  
**3 leads:** RA; LA; LL or R; L; F  
**ECG waveform:** 2 channels  
**Gain selection:** ×1/4, ×1/2, ×1, ×2, Auto  
**Sweep speed:** 12.5mm/s, 25mm/s, 50mm/s  
**Heart Rate Range:** 20 ~ 250bpm  
**Accuracy:** ±1% or ±2bpm  
whichever is greater  
**Resolution:** 1 bpm  
**ST SEGMENT detection:** -2.0mV+2.0mV  
**Arrhythmia analysis:** Yes  
**Waveform:** Standard 9-ECG waveforms  
Optional 12-ECG waveforms  
**Anti-jamming:** line frequency, electro-surgical  
interference and defibrillation  
**Pace detection:** Yes  
**HR alarming time:** ≤ 12s  
**Input impedance:** > 5 MΩ

### Respiration

**Method:** Thoracic impedance  
**RR measurement range:** 0-100rpm  
**Resolution:** ±1 rpm  
**Accuracy:** ±1rpm

### SpO<sub>2</sub>

**Measurement range:** 0-100%  
**Resolution:** 1%  
**Accuracy:** ±1% (90-100%)  
±2% (70-89%)  
**Pulse Rate range:** 0~250 bpm  
**Pulse Rate Accuracy:** ±1bpm

### Nellcor SpO<sub>2</sub> (option)

**Measurement range:** 0-100%  
**Resolution:** 1%  
**Accuracy:** ±2% (adult and low-perfusion)  
±3% (neonate)  
**Alarm range:** 0-100%  
**Pulse rate:** Range: 0~254bpm  
Resolution: 1bpm  
Accuracy: ±3bpm  
Alarm range: 0~254bpm

### NIBP

**Measurement method:** Automatic vibration  
**Measurement types:** Systolic, Diastolic, Mean  
**Work mode:** Manual / Automatic  
**Auto measurement time:** Adjustable  
**Measurement unit:** mmHg / KPa selectable  
**Measurement range:** Adult/Pediatric Mode:  
Systolic pressure: 60~240mmHg  
Diastolic pressure: 30~190mmHg  
Mean pressure: 40~210mmHg  
Neonatal Mode:  
Systolic pressure: 25~135mmHg  
Diastolic pressure: 12~110mmHg  
**Accuracy:** 5mmHg  
NIBP pressure range 0~300 mmHg  
**PR from NIBP:** Measurement 40-240bpm  
**Over-pressure protection:** Double safety protection

### IBP

**Measurement Range:** -30mmHg~300mmHg  
**Channel:** 2 channel  
**Pressure names:** ARP, PA, CVP, RAP, LAP, ICP, P1, P2  
**IBP Accuracy:** 0~100mmHg  
**Pulse Accuracy:** ±1% or ±1bpm, whichever is greater  
**Calibration Mode:** Zero Calibration

### Temperature

**Measurement range:** 20-45°C  
**Resolution:** 0.1°C  
**Accuracy:** 0.1°C  
**Measurement unit:** °C / F selectable

### EtCO<sub>2</sub>- Sidestream / Mainstream (option)

**Method:** Infrared Absorption Technique  
**Sample Rate:** 50mL/min. ±10 mL/min (sidestream)  
**CO<sub>2</sub> Measurement Range:** 0 to 150 mmHg  
**CO<sub>2</sub> Resolution:** 0.1 mmHg 0 to 69mmHg  
0.25 mmHg 70- 150 mmHg

**CO<sub>2</sub> Accuracy:** 0-40 mmHg ±2 mmHg  
41-70 mmHg ±5% of reading  
71-100mmHg ±8% of reading  
101-150mmHg ±10% of reading

**AwRR:** ±1 rpm  
**Response time:** <3 seconds, includes transport time,  
rissetime

**Calculation Method:** BTPS (Body Temperature Pressure  
Saturated)  
**Sample Gas Flowrate:** 50ml/min

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## Patient Monitor

### User-friendly Interface

Multi interfaces support, including standard display, large-font display, trend coexist display, bed-to-bed view display, OxyCRG dynamic view display and 12-lead ECG display. Color of waveform and parameter is changeable.

### Excellent Performance

Individual modules for convenient maintenance and upgrade, including ECG module, SpO<sub>2</sub> module, NIBP module, Main board module and Power Supply module, etc.

### Super Reliability

The design and production of product strictly comply with the CE standards. The safety, stability and durability of the product are well guaranteed. At least 10 days of aging inspection to maintain product's reliability.

### Rich Clinical Information

Excellent software processing techniques, including arrhythmia analysis, pacemaker analysis, oxyCRG, S-T segment analysis, drug dose calculation etc.

### Power-off Protection

24 hours of full data, alarm recall and trend graphic saving in case of power failure.

### Alarm System

3-levels of audible/visual alarm, breath asphyxia alarm and alarm recall function. It can transfer the change of illness accurately and timely.

### Nurse Call

Nurse call connection is available, immediately transfer latest patient information.

### Patient Information System

Powerful information system, including patient information input, multi-language selection, and 120 hours trend graphic storage and review. It can meet the requirements of clinic analysis and data management.

### Network System

Bi-directional communications with central monitoring system, both wired and wireless solution support.

- 12.1 inch Large-screen color TFT display with maximum 9 waveforms
- 120 hours graphic and tabular trends of all parameters
- SpO<sub>2</sub> pulse-tone modulation (Pitch Tone)
- 1000 group lists of NIBP storage and review
- Optional 12-lead ECG waveforms display and analysis
- Optional Respiroics sidestream and mainstream EtCO<sub>2</sub> measurement for accurate measurement of intubated and non-intubated patients
- Optional Nellcor Oximax/COMEN SpO<sub>2</sub>.



Reserved EtCO<sub>2</sub> Socket, for easy upgrading of EtCO<sub>2</sub> function



**Drug Dose Calculation Interface**  
It can calculate transfusion speed, drug computation, drug dose. The function provides more help to doctors.



**OxyCRG**  
Display of the interactive relation between heart rate, respiration and oxygen parameter. It is convenient for observing the clinic change of neonate.



**12-lead ECG waveforms Interface**  
Fully disclosure of the 12-lead ECG waveforms, accurately shows the patient's ECG information. Good for ICU, CCU and operation rooms.



**Big Font Interface**  
Basic parameters (ECG, SpO<sub>2</sub>, NIBP, TEMP, RESP) in large font for distance view and long-time monitoring.



### Standard Configuration:

- ECG/HR • SpO<sub>2</sub> • NIBP • Respiration • Temperature • Pulse • EtCO<sub>2</sub> Socket

### Optional Configuration

- Nellcor SpO<sub>2</sub> • 12-lead ECG • IBP • EtCO<sub>2</sub> • ICG • Anesthesia Gas
- Nurse Call • Built-in Recorder • Central Monitor Station
- Special Accessories for Neonatal and Pediatric Patient

