



Star8000 Multi-parameters Monitor

General Specification

Configuration

Standard: 3/5-lead ECG, NIBP, Comen.SpO2, RESP, PR,
Optional: IBP, Temp2, CO2, Masimo SpO2, Nellcor SpO2

Power Supply

AC input voltage: 100-240V~, 50/60Hz
Built-in battery (Standard) : 2200mAh, at least 2 consecutive hours.
Built-in battery (Optional) : 4400mAh, at least 4 consecutive hours.

Display

Dimension: 300mm×150mm×278mm
Weight: 2.72kg (without battery)
Display: 12.1 Inch touch screen
Waveforms: Maximum 8 waveforms display
Resolution: 800×600

Environmental Specifications

Environment temperature: 5℃ ~ 40℃
Relative humidity: ≤93%
Atmospheric pressure: 700hPa ~ 1060hPa

Indicator

Dual alarm indicator lights, Power indicator light,
Battery indicator light, QRS beep and alarm sound,
Operating key sound

External interface

Parameter cable interface, AC power input socket, USB port
RJ45 port, Multifunction port, Equipotential jack, Wall-mounted rack

Data Review and Storage

Trend table/graph: 160hrs
Full disclosure waveform: 48h
Power-off Protection

NIBP storage: 2000 groups
Alarm storage: 200

ECG Specifications

Lead type: 3-lead, 5-lead or 12-lead selectable
Lead selection:

3-lead (I, II, III), 1- channel
5-lead (I, II, III, avR, avL, avF, V), 2 -channel
12-lead (R, L, F, N, C1, C2, C3, C4, C5, C6 or RA, LA, LL, RL, V1, V2, V3, V4, V5, V6); 2-channel

HR measurement range:

Adult: 15~300bpm
Neonate/child: 15~350bpm
Accuracy: ±1% or ±1bpm, whichever is greater.
ST measurement range: 2.0mV~+2.0mV (-20.0 mm~+20.0 mm)
Arrhythmia: 26 calls
Waveform speed: 6.25mm/s, 12.5mm/s, 25 mm/s, 50 mm/s
Gain selection: 1.25, 2.5, 5.0, 10, 20, 40mm/mV, Auto.
Pacemaker detection: Yes
Protection: Against electrosurgical interference and defibrillation.
Bandwidth:
Surgery mode: 1 Hz ~ 20 Hz (-3.0dB ~ +0.4dB);
Monitoring Mode: 0.5 Hz ~ 40 Hz (-3.0dB ~ +0.4dB);
Diagnosis mode: 0.05Hz ~ 150 Hz (-3.0dB ~ +0.4dB);
ST mode: 0.05Hz ~ 40Hz(-3.0dB ~ +0.4dB)
ECG analog output

Common mode rejection: <1mV (p-v RTI)

Non-invasive Blood Pressure(NIBP)

Method: Auto oscillation method
Parameters: SYS/DIA/MAP/Pulse Rate
Operating mode: Manual/Auto/STAT
Auto measure intervals: 1/2/2.5/3/4/5/10/15/30/60/
90/120/180/240/480/720min
Units: mmHg/kPa
Cuff pressure range: Adult: 80 ~ 280;
Child: 80 ~ 210;
Neonate: 60 ~ 140

Measurement and alarm range:

SYS: (adult) 5.3-36kPa (40-270mmHg)
(Child) 5.3-26.7kPa (40-200mmHg)
(Neonate) 5.3-18kPa (40-135mmHg)
DIA: (adult) 1.3-28.7kPa (10-215mmHg)
(Child) 1.3-20kPa (10-150mmHg)
(Neonate) 1.3-13.3kPa (10-100mmHg)
MEAN: (adult) 2.7-31.3kPa (20-235mmHg)
(Child) 2.7-22kPa (20-165mmHg)
Accuracy: ± 0.1 kPa or ± 1 mmHg, whichever is greater.
PR measurement range: 40 bpm - 240 bmp
Accuracy: ± 2 bpm or $\pm 2\%$, whichever is greater
Over-pressure protection: Yes

Resp Specifications :

Measurement method: Thoracic impedance
Measurement range: Adult: 0 - 120 rpm
Child/neonate: 0rpm-150rpm
Accuracy: 7rpm~150rpm: ± 2 rpm or $\pm 2\%$,
whichever is greater. 0rpm~6rpm: not defined.
No breath alarm delay: 10s、 15s、 20s、 25s、 30s、 35s、 40s、
45s、 50s、 55s、 1min、 Off

SpO2 Specifications

Measurement range & Accuracy:

Comen SpO2:

0%~100%;

accuracy:

$\pm 2\%$ (adult/child, in non-motion state) or
 $\pm 3\%$ (neonate, in non-motion state) within
the measurement range of 70%~100%.

Masimo SpO2:

1%~100%;

accuracy:

$\pm 2\%$ (adult/child, in non-motion state),
 $\pm 3\%$ (adult/child, in motion state) or
 $\pm 3\%$ (neonate, in motion or non-motion state)
within the measurement range of 70%~100%.

Nellcor SpO2:

0%~100%;

accuracy:

$\pm 2\%$ (adult/child, in non-motion state) or
 $\pm 3\%$ (neonate, in non-motion state) within
the measurement range of 70%~100%.

The measurement accuracy within the measurement range
of 1%~69% is not defined.

Perfusion index (PI):

Range for Masimo SpO2 and Comen SpO2: 0.02%~20%;
accuracy: not defined.

Resolution: 0.01% (within 0.02%~9.99% range)
or 0.1% (within 10.0%~20.0% range).

PR Specifications

Measurement range and accuracy:

Comen SpO2: 20bpm~254bpm; resolution: 1bpm;
Masimo SpO2: 25bpm~240bpm; resolution: 1bpm;
Nellcor SpO2: 20bpm~300bpm; resolution:1bpm;

Temp Specifications

CO2 specification

Measurement range: 0℃~50℃
Accuracy: ± 0.1 ℃
Number of channels: 2

CO2 Specifications

Masimo EtCO2 sensor (mainstream):

CO2 measurement range:

0mmHg~190mmHg, 0~25% (at 760mmHg)

CO2 resolution: 1mmHg, 0.1kPa or 0.1%

CO2 accuracy: 0~15%: $\pm(0.2\%+\text{reading}\times 2\%)$

15~25%: not defined

Masimo EtCO2 sensor (sidestream):

CO2 measurement range:

0mmHg~190mmHg, 0~25% (at 760mmHg)

CO2 resolution: 1mmHg, 0.1kPa or 0.1%

CO2 accuracy: 0~15%: $\pm(0.2\%+\text{reading}\times 2\%)$

15~25%: not defined

Respironics/Nmed/Palconn EtCO2 sensor (mainstream)

CO2 measurement range:

0~150mmHg 0%~19.7% (0~20.0kPa)

CO2 resolution: 0~69mmHg: 0.1mmHg

70~150mmHg: 0.25mmHg

CO2 accuracy: 0~40mmHg: ± 2 mmHg

41~70mmHg: $\pm 5\%$ reading

71~100mmHg: $\pm 8\%$ reading

101~150mmHg: $\pm 10\%$ reading

Respironics/Nmed/Palconn EtCO2 sensor (side stream)

CO2 measurement range:

0~150mmHg 0%~19.7% (0~20.0kPa)

CO2 resolution: 0~69mmHg: 0.1mmHg

70~150mmHg: 0.25mmHg

CO2 accuracy: 0~40mmHg: ± 2 mmHg

41~70mmHg: $\pm 5\%$ reading

71~100mmHg: $\pm 8\%$ reading

101~150mmHg: $\pm 10\%$ reading

IBP Specifications

Channels: 2

Measurement range: -1.3kPa~+40kPa(-50mmHg~+300mmHg)

Resolution: 0.1kPa or 1mmHg

Accuracy: ± 1 mmHg or $\pm 2\%$, whichever is greater .

Recording Specifications

Recording paper width: 50mm

Paper speed: 25/50 mm/s

Number of waveforms: 3

Specifications subject to change without notice

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