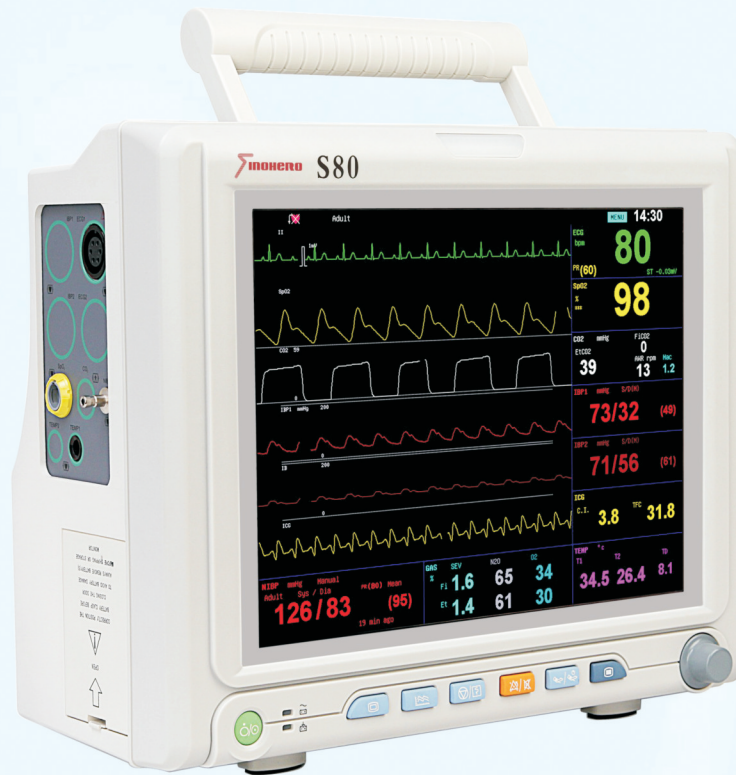


S80

Multi-parameter Patient Monitor



- 10.4" color TFT display with maximum 10 waveforms
- Power software function include Large Font, Short Trend, Arrhythmia and ST analysis
- Pitch tone to provide audibly recognized SpO2
- Maximum 120-hour trends to review all parameters information
- Wire or wireless networking with Central Monitoring Systems

Size and Weight

- Size: 318mm×264mm×152mm
- Weight: 4.5kg

Power supply

- Power Voltage: AC 100-240V 50/60Hz
- Power Input: ≅85VA
- Safety class: Category I

Display

- 10.4" Color TFT display
- Resolution: 800×600 pixels

Battery

- Type: Rechargeable Acid Battery (Option Lithium battery)
- Operating time under the normal use and full charge: ≅120minutes
- 2 batteries ≅240 minutes
(Option Lithium battery will double operate time)

Thermal Recorder

- Method: Thermal dot array
- Paper width: 50mm(1.97 in)
- Paper Speed: 12.5/25/50(mm/sec)
- Traces: Maximum 3 tracks

Alarm

- Three Levels: Low, medium and high
- Indication: Auditory and visual
- Setup: Default and custom
- Silence: All alarm can be silenced
- Volume: 45-85 dB measured at 1 meter

Trend

- Trend: 120 hours
- Parameters option: HR, SpO2, NIBP, PR, RESP, EtCO2, Temp1, Temp2, AA, N2O, O2, IBP1, IBP2, ST.
- Cycle intervals of trend storage: 1 min, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min.

Storage & Reviewing

- ECG: 10 minutes one important lead's ECG waveform
- Alarm: 1000 groups alarm events reviewing
- NIBP: 750 groups NIBP measurement
- Arrhythmia: 128 groups data(8 seconds ECG waveform)
- Power-off storage: 72 hours trend data & 1 ECG wave form (Option)

ECG

- Lead Mode: 3-leads ECG input
5-leads ECG input
- Lead selection: I, II, III, aVR, aVL, aVF, V₁, V₂, V₃, V₄, V₅, V₆
- Gain: 2.5mm/mV(×0.25), 5mm/mV(×0.5), 10mm/mV(×1), 20mm/mV(×2), 40mm/mV(×4), Auto
- CMRR: Monitor mode ≅105dB
Surgery mode ≅105dB
Diagnostic mode ≅90dB
- Frequency response(-3dB):
Monitor mode 0.5~40Hz
Surgery mode 1~25Hz
Diagnostic mode 0.05~150Hz
- Input impedance: ≅5.0Mohm
- ECG signal range: ±10.0mV
- Electrode offset potential: ±50mV
- Patient Leakage Current: <10uA
- Standardizing signal: 1mV±5%
- Baseline recovery: <5s after Defibrillation.(Mon or Surg mode)
- Indication of electrode separation: Every electrode(exclusive of RL)
- Protection: Breakdown Voltage 4000AVC
50/60Hz; defibrillator proof
- Sweep speed: 12.5mm/s, 25mm/s, 50mm/s

HR

- Range: Adult 10~300bpm
Pediatric & Neonate: 10~350bpm
- Refreshing time: ≅50 bpm Per 2 pulses
50~120bpm per 4 pulses
≅120bpm per 6 pulses
- Resolution: 1bpm
- Accuracy: ±1% or ±1bpm, whichever is greater

ST segment

- Measurement range: -2.0mV~2.0mV
- Resolution: 0.01mV

RESP

- Method: Impedance variation between RA-LL(R-F)
- Gain: ×1, ×2, ×4
- Bandwidth: 0.25Hz to 2.0Hz (-3dB)
- Sweep Speed: 6.25mm/s, 12.5mm/s, 25mm/s
- Measurement Range: 0~150 rpm

NIBP

- Method: Automatic oscillometry
- Range of measurement:
Adult: 10~270mmHg
Child: 10~235mmHg
Neonate: 10~135mmHg
- Accuracy: Static: ±2% or ±3mmHg, whichever is greater
- Unit: mmHg, kPa
- Intervals for AUTO measurement time: 1, 2, 3, 4, 5, 10, 15, 20, 30, 45, 60, 90 minutes; 2, 4, 8 hours
- Pulse rate range: 40~240bpm

Standard SpO2 (Digital)

- Measurement Range: 0~100%
- Accuracy: At 70~100%, ±2%
At 0~69%, unspecified

PR

- Measurement Range: 25~250bpm
- Accuracy: ±1% or ±1bpm, whichever is greater

Nellcor-SpO2

- Measurement Range: 0~100%
- Resolution: 1%
- Accuracy: At 70~100%, ±2%(Adult)
At 70~100%, ±3%(Neonate)
At 70~100%, ±2%(Low Perfusion)
At 0~69%, unspecified

PR

- Measurement Range: 20~300bpm
- Resolution: 1bpm
- Accuracy: 20bpm to 250bpm: ±3bpm
251bpm to 300bpm: unspecified

Masimo-SpO2

- Measurement Range: 0% to 100%
- Resolution: 1%
- Accuracy: 70% to 100%; ±2%(adult/pediatric, non-motion conditions)
70% to 100%; ±3%(neonate, non-motion conditions)
70% to 100%; ±3%(motion conditions)
0% to 69%, unspecified
- Average time: 2-4s, 4-6s, 8s, 10s, 12s, 14s, 16s

PR

- Measurement Range: 25bpm to 240 bpm
- Accuracy: ±3bpm(non-motion conditions)
±5bpm(motion conditions)
- Resolution: 1bpm

TEMP

- Measurement Range: 25.0°C~50.0°C
- Accuracy: ±0.1°C (exclusive of probe)
- Unit: Celsius(°C), Fahrenheit(°F)
- Connecting cable: Compatible with YSI-400 serial

IBP

- Channel: 2
- Measurement way: Directly invasive pressure measurement
- Sensitivity of transducer: 5uV/V/mmHg, ±2%
- Impedance of transducer: 300 to 3000Ω
- Measurement Range: -50~+300mmHg
- Resolution: 1mmHg
- Unit: mmHg, kpa, cmH2O
- Accuracy:
Static: ±1mmHg or ±2%, whichever is grater(exclusive of transducer)
±4mmHg or ±4%, whichever is grater(inclusion of transducer)

- Dynamic: ±4mmHg or 4%, whichever is grater
- Transducer sites: Arterial Pressure (ART)
Pulmonary Artery Pressure (PA)
Left Atrium Pressure (LAP)
Right Atrium Pressure (RAP)
Central Venous Pressure (CVP)
Intracranial Pressure (ICP)

EtCO2 (Sidestream)

- Measure method: Infrared spectrum
- Measure Range: 0.0~13.1%(0~99.6mmHg)
- Resolution: 1mmHg
- Unit: %, mmHg, kpa
- Accuracy: 0% to 4.9%, ±0.3%(±2.0mmHg)
5.0% to 13.1%, ±10% of the reading
- Measurement range of awRR: 3~150rpm
- Calibration: Offset calibration: auto, manual, Gain calibration

EtCO2(Mainstream)

- Measure method: Infrared spectrum
- Warm up time: Capnogram displayed in less than 15 seconds, At an ambient Temperature of 25°C, full specifications within 2 minutes.
- Measure Range: 0.0~19.7%(0~150mmHg)
- Resolution: 1mmHg
- Rise time(10/min): ≅60ms
- Unit: %, mmHg, kpa
- CO2 Accuracy: 0-40mmHg, ±2mmHg
41-70mmHg, ±5% of reading
71-100mmHg, ±8% of reading
101-150mmHg, ±10% of reading
(at 760 mmHg, ambient temperature of 35°C)
- awRR measurement range: 0~150rpm
- awRR measurement Accuracy: ±1rpm

EtCO2 (Microstream)

- Measure method: Infrared spectrum
- Warm up time: Capnogram displayed in less than 20 seconds, At an ambient Temperature of 25°C, full specifications within 2 minutes.
- Measure Range: 0.0-19.7%(0-150mmHg)
- Resolution: 1mmHg
- Unit: %, mmHg, kpa
- CO2 Accuracy: 0-40mmHg, ±2mmHg
41-70mmHg, ±5% of reading
71-100mmHg, ±8% of reading
101-150mmHg, ±10% of reading
(At 760 mmHg, ambient temperature of 25°C)
(When RR>80 rpm, all the rang is ±12% of reading)
CO2 response time: <3S
- awRR measurement range: 2~150rpm
- awRR measurement Accuracy: ±1rpm
- Sample Flow Rate: 50ml/min ±10ml/min

Environment

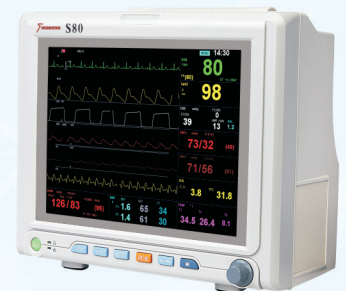
- Operating temperature: 0~+40°C
- Transportation and Storage temperature: -20°C to +50°C
- Relative humidity: Working ≅85%
Transportation and storage ≅93%
- Atmospheric pressure: 860hPa to 1060hPa
Transportation and storage 500-1060 hPa

Standard configuration of S80:

ECG, HR, RESP, SpO2, NIBP, 1-TEMP, Acid Battery, PR

Optional parameter & configuration of S80:

Nellcor SpO2, Masimo SpO2, 2-TEMP, 2-IBP, EtCO2(Sidestream, Microstream, Mainstream), VGA output
Thermal recorder, Lithium Battery



Specification subject to be changed without prior notice.

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