

**SUNBRIGHT GROUP**  
**SUNBRIGHT GROUP (HONG KONG)CO.,LIMITED**  
**SHANGHAI SUNBRIGHT INDUSTRIAL CO., LTD**



Add: Sunbright building, No.588 Mingcheng Road, Fengxian

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## 12.1 inches Patient Monitor SUN-603S



### Introduction: .

This equipment can monitor such parameters as ECG, RESP, SpO2, NIBP, and Dual-channel TEMP. It integrates parameter measuring module, display and recorder in one device to form a compact and portable device. At the same time, its built-in replaceable battery provides convenience for patient moving.

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## Features:

- \* Elegant appearance, clear marks, standard interface, oxyCRG SCREEN, trend graph, big characters, other BED observation, which are convenient for user.
- \* Be applicable for **adult, pediatric** and **neonatal**.
- \* Standard parameters of **ECG, RESP, NIBP, SpO2** and **dual-channel TEMP**. IBP, CO2, Built-in printer, curving handle, moving bracket and hanging bracket are optional.
- \* Operation interface with Chinese and English. Finish all operations by keys and knobs.(Optional languages: **French, German, Italian, Dutch, Portuguese, Turkish, Spanish, Poland**.) design with full built-in module, stable and reliable performance.
- \* **12.1" color TFT LCD** with high-resolution displays patient parameter and waveform, and **alarm, bed NO, clock, state and other information** provided by the monitor synchronously.
- \* Monitoring contents, scan speed, volume and output contents can be set optionally.
- \* **Storage of 480-hour trend data, and review of 40-second holographic waveform.**
- \* **Storage and review of 72-hour ECG waveform.**
- \* Function of **NIBP review, storage for up to 2400 NIBP data.**
- \* Adopt digital SpO2 technology, which has strong anti-interference and anti-weak filling capability.
- \* Calculation of drug concentration.
- \* Network: connecting with central station, other Bed observation and software updating. Connection mode: wireless and wired.
- \* **Built-in rechargeable battery** for uninterrupted monitoring.

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- \* Print ECG, SpO2, RESP, BP and temperature data with one-key.
- \* Anti-high frequency surgical unit, defibrillation-proof(requirement for special leads).
- \* Analysis function for heart rate variability(HRV) (optional)

## Performance:

ECG	Lead Mode 3-lead and 5-lead are optional Lead Selection I, II, III, avR, avL, avF, V Wave 5-lead: 2 channels 3-lead: 1channel Gain $\times 2.5\text{mm/mV}$ , $\times 5.0\text{mm/mV}$ , $\times 10\text{mm/mV}$ , $\times 20\text{mm/mV}$ HR Measuring and Alarm Range Range 15 ~ 300 bpm Accuracy $\pm 1\%$ or $\pm 1\text{bpm}$ , which is greater Alarm Accuracy $\pm 2\text{bpm}$ Resolution 1 bpm
CMRR	Monitor $\geq 100\text{ dB}$ Surgery $\geq 100\text{ dB}$ Diagnosis $\geq 60\text{ dB}$
Bandwidth	Surgery 1 ~ 20 Hz(+0.4dB,-3dB) Monitor 0.5 ~ 40 Hz(+0.4dB,-3dB) Diagnosis 0.05~75Hz(+0.4dB,-3dB); 76Hz~150Hz(+0.4dB,-4.5dB) Calibration Signal 1 mV (Vp-p), $\pm 5\%$ Accuracy
ST Segment Monitoring	Measuring and Alarm Range -0.6 mV~ + 0.8 mV
ARR	ARR Detecting Type ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC

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Alarm	Available
Review	Available
Scan Speed for ECG Waveform is adjustable	12.5mm/s accuracy $\pm 10\%$ 25mm/s accuracy $\pm 10\%$ 50mm/s accuracy $\pm 10\%$
Respiration	Method R-F(RA-LL) Impedance Differential Input Impedance $> 2.5 \text{ M}\Omega$ Measuring Impedance Range $0.3 \sim 5.0 \Omega$ Baseline Impedance Range $100 \Omega - 2500 \Omega$ Bandwidth $0.3 \sim 2.5 \text{ Hz}$
Resp. Rate	Measuring and Alarm Range $0 \sim 120 \text{ rpm}$ Resolution $1 \text{ rpm}$ Measuring Accuracy $\pm 2 \text{ rpm}$ Alarm Accuracy $\pm 3 \text{ rpm}$ Apnea Alarm $10 \sim 40 \text{ S}$
NIBP	Method Oscillometry Mode Manual, Auto, continuous Measuring Interval in AUTO Mode $1 / 2 / 3 / 4 / 5 / 10 / 15 / 30 / 60 / 90 / 120 / 240 / 480 / 960 \text{ Min}$ Measuring Period in Continuous Mode $5 \text{ Min}$ Measuring and Alarm Range $10 \sim 270 \text{ mmHg}$ Alarm Type SYS, DIA, MEAN
Resolution	Pressure $1 \text{ mmHg}$ Cuff Pressure $\pm 3 \text{ mmHg}$ Accuracy $\pm 10\%$ or $\pm 8 \text{ mmHg}$ , which is greater Over-pressure Protection: Adult Mode $315 \pm 10 \text{ mmHg}$

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	Pediatric Mode $265 \pm 10$ mmHg Neonatal Mode $155 \pm 10$ mmHg
SpO2	Measuring Range 0 ~ 100 % Alarm Range 0 ~ 100 % Resolution 1 % Accuracy 70% ~ 100% $\pm 2\%$ 0% ~ 69% unspecified
Pulse Rate(PR)	Measuring and Alarm Range 0~250bpm Resolution 1bpm Measuring Accuracy $\pm 2$ bpm or $\pm 2\%$ , which is greater Alarm Accuracy $\pm 2$ bpm
TEMP	Channel dual-channel Measuring and Alarm Range 0 ~ 50°C Resolution 0.1°C Accuracy $\pm 0.1$ °C Actualization Interval about 1 Sec. Average Time Constant < 10 Sec. Alarm responding Time $\leq 2$ min
EtCO2	Method Sidestream or Mainstream Measuring Range for CO2 0~150mmHg Resolution for CO2: 0.1 mm Hg 0 to 69 mm Hg 0.25 mm Hg 70 to 150 mm Hg Accuracy for CO2: 0 – 40 mm Hg $\pm 2$ mm Hg 41 – 70 mm Hg $\pm 5\%$ 71 – 100 mm Hg $\pm 8\%$ 101 – 150 mm Hg $\pm 10\%$ Respiration Rate >80BPM $\pm 12\%$ AwRR Range 2~150 rpm AwRR Accuracy $\pm 1$ BPM Apnea Alarm Available

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IBP	Channel dual-channel Label ART, PA, CVP, RAP, LAP, ICP, P1, P2 Measuring and Alarm Range -50~350 mm Hg Resolution 1 mm Hg Accuracy $\pm 2\%$ or 1mm Hg, which is greater
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Display Mode 12.1" color TFT LCD with high-resolution.

Power Supply 220V, 50Hz

Safety Classification class I , type CF defibrillation-proof part

Physical Characteristic:

Dimension 310×140×263(mm)

Net weight 3.8Kg

### Accessories:

- 1) Adult SpO2 probe(5-pin)
- 2) Adult NIBP cuff
- 3) Extending tube for blood pressure
- 4) ECG lead
- 5) ECG electrode
- 6) Temperature probe
- 7) Power cord
- 8) Thermal recording paper(optional)
- 9) User Manual

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**12.1 inches display**



**Multi Language:**

**French, Spanish, Turkish, Portuguese, English**



**All accessories can put in its back bag**



**Accessories of six parameter standard configuration for adult**

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