

# PSTAR8000H Vital Signs Monitor

## Patient Monitoring

The STAR8000H has a 21 cm (8.4 inch) TFT touch screen, great design and excellent performance. A multi-functional, portable patient monitor widely used in clinics, hospitals, surgeries, operation rooms, ICUs and CCUs. Suitable for adult, pediatric and neonatal patients.

**Various Interface:** Simple and clear interface. The user can choose various display screens according to different environments. For instance there is a standard interface, large font interface or a short trend interface to assist in viewing the screen. The color of waveforms and parameters can also be changed for individual clinical requirements.

**Super Reliability:** Design and production strictly complies with CE standards. The safety, stability and durability of this vital signs monitor are guaranteed. Comen use high quality "medical level" materials and control the manufacture processes through inspection testing.

**Rich Clinical Information:** Excellent software processing technique where the user can quickly obtain the required information for clinical decision-making, with analysis such as arrhythmia analysis, pacemaker analysis, oxyCRG, S-T segment analysis, drug dose calculation etc.

**Alarm System:** 3-level intellectualised light/voice alarm, breath asphyxia alarm and alarm recall function. It can transfer the change of illness accurately and timing. It can also replay and analysis the patient status in time.

**Patient Information System:** A powerful information system, which supports patient information input, multi-language selection, 120 hours' trend graphic storage and review. It meets the requirements of clinical analysis and data management.

**Network System:** Ethernet, support wire and wireless network. It can set up maximum 128 unit central monitoring system.



USB Port for extended memory capacity, convenient for computer data saving and file recording.



Various Mounting Solutions



Lightweight and compact 2.5 kg with Lithium-ion battery, up to 4 hours working time.



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Page 1 | 4

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### Features

- 21cm (8.4 inch) TFT Touch Screen
- Ideal for transferring patient, for ambulance use
- Option Automotive power supply support
- Built-in lithium battery, up to 4 hours working time
- Arrhythmia and ST segment analysis, drug dose calculation, pacemaker detection
- Various interface: Standard Display, Large-font Display, 2-hour Trends Display, OxyCRG Display
- Huge data records, 96 hours trends and graph recall, 400 groups of NIBP list, 60 alarm events.
- Wired/wireless Central Monitoring System
- Multi-option function support, can be used in ICU, NICU or OR
- Standard Configuration: ECG / HR, Comen SpO2, NIBP, RESP, TEMP, Pulse



Alternate mounting solution.

### Technical Specifications

Product Size	107 mm X 214 mm X 246 mm
Net Weight	3 kg

### Operation Environment

Temperature	0-40°C
Humidity	15-85%
Power Supply	AC100-250V, 50/60 Hz
Battery Type	External Power Supply Lithium-ion battery/rechargeable plug & play 4 hours continuous working Recharging Time: Maximum 6.5 hours Capacity: 4000 mA

### Performance Specifications

Display	8.4" colour TFT touch screen
Display Language	English
Resolution	800 x 600
Trace	4 waveforms (MAX)
Indicator	Dual alarm indicator lights Power indicator light Battery indicator light QRS beep and alarm sound Operating key sound
Interface	Parameter cable interface AC power input socket Software upgrade through Networking port or USB port USB port RJ45 port
Alarm	User-adjustable High and Low 3-level Limits Prioritised audible and visual alarm
Network	Connected to Central Monitoring System by hardwire/wireless
Recorder	Built-in; Thermal Array 2 waveforms Speed: 25 mm/s, 50 mm/s Record Width: 50 mm
Data	Power-off storage
Data Storage	USB port

Technical Specifications continued next page



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Alarm Event Recall	500 groups (120 hours)
Wave Recall	30 mins
NIBP Recall	2000 groups
Trend Graph	120 hours
Trend Table	120 hours

### Respiration

Method	Thoracic impedance
RR Measurement Range	Neonate: 6-150 bpm
Resolution	±1 rpm
RESP Apnea Alarm	10s-40s
Alarm	Audible and visual alarm Alarm events recallable
Sweep Speed	6.25, 12.5, 25 mm/s
Gain Selection	X0.25, X0.5, X1, X2, X4

### ECG

Lead Type	5 Lead and 3 lead selectable
5 leadwire cable	RA; LA; RL; LL; V or R; L; N; F; C
3 leadwire cable	RA; LA; LL or R; L; F
Lead selection	5-lead: I; II; III; aVR; aVL 3-lead: I; II; III
Gain Selection	X0.25, X0.5, X1, X2, X4, auto
Sweep Speed	6.25, 12.5, 25, 50 mm/s
Heart Rate Range	Pediatric/Neonate: 15-350 bpm
Resolution	1 bpm
Accuracy	±1% or ±2 bpm (whichever is greater)
Filter	ECG enlarge width: MON: 0.5-55 Hz DIA: 0.05-150 Hz OPE: 1-20 Hz
ST Segment Detection	-2.0 MV to +2.0 MV (Automatic)
Arrhythmia Analysis	Yes
Pacemaker Detection	Detectable

### Standard Configuration

ECG, RESP, Dual-Temperature, COMEN SPO2, NIBP,  
Reserved-EtCO2 Interface

### Regulatory Compliance

CE marking according to MDD93/42/EEC

### Warranty

2 Year Manufacture Warranty

### NIBP

Method	Automatic Oscillometric
Work Mode:	Manual / Automatic / Continuous
Auto Measure Time	Adjustable (1-480 min)
Measurement Unit	mmHg / KPa selectable
Measurement Types	Systolic, Diastolic, Mean
Range of Systolic Pressure	Adult Mode: 40-270 mmHg Pediatric Mode: 40-200 mmHg Neonate Mode: 40-135 mmHg
Range of Diastolic Pressure	Adult Mode: 10-215 mmHg Pediatric Mode: 10-150 mmHg Neonate Mode: 10-100 mmHg
Range of Mean Pressure	Adult Mode: 20-235 mmHg Pediatric Mode: 20-165 mmHg Neonate Mode: 20-110 mmHg
Over-Pressure Protection	Both Hardware and software
Accuracy	Less than ±5 mmHg
Resolution	1 mmHg
Alarm	Systolic, Diastolic, Mean
PR from NIBP	40-240 bpm

### Temperature (Dual Channel)

Measurement Range	0-50°C
Temperature Sensor	Standard configuration: skin TEMP sensor
Resolution	0.1°C
Accuracy	±0.1°C (exclusive of error of sensor)
Channel	T1, T2, TD (Temperature Difference)

### Comen SPO2

Measurement & Alarm Range	1~100%
Resolution	1%
Accuracy	±2% (70~100%, Ped, non-motion+ ±3% (70~100%, Neo, non-motion) 0-69% unspecified
Alarm Range	0~100%
Pulse Rate	Range: 20~250 bpm
Resolution	1 bpm
Accuracy	±3 bpm (non-motion) ±5 bpm (motion)
Alarm Range	20~250 bpm



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Page 3 | 4

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Big font display. ST Analysis, AAR analysis, Drug-dose Calculation, etc.



OxyCRG: Displays the interactive relationship between heart rate, respiration and oxygen on the same screen.

### VSSTAR comes complete with

- 1 x VSSTARTPSA Adult Skin Temperature Probe (10K)
- 1 x VSSTARFSAH Comen Adult Reusable digital SpO2 Probe (Hard)
- 1 x NIBP Cuff & Bladder
- 1 x VSSTART Adult NIBP Tube Black
- 1 x VSSTARECG 5-Lead Clip connector ECG Cable (AHA)
- 1 x VSSTAREA MSB Electrodes for Adult (pk 15)
- 1 x VSSTARGC Ground Cable (Type A)
- 1 x VSSTARS Stylus
- 1 x Power Cord
- 1 x User Manual



Correct Pole Mounting



Incorrect Pole Mounting

Produce Code	Description
VSSTAR	STAR8000H PATIENT MONITOR STANDARD SET

### VSSTAR Spare Parts Listing

VSSTARECG	5 LEAD CLIP CONNECTRO ECG CABLE
VSSTAREA	ELECTRODES ADULT FOR VSSTAR (PK 15)
VSSTARREP	ELECTRODES PED/NEONATE (PK 15)
VSSTARGC	GROUNDING CABLE FOR VSSTAR
VSSTART	NIBP TUBE FOR VSSTAR BLACK
VSTARRC	RAIL CLAMP FOR VSSTAR
VSSTARFSAH	SPO2 FINGER SENSOR ADULT HARD
VSSTARFSAS	SPO2 FINGER SENSOR ADULT SOFT
VSSTARFSEC	SPO2 EXTENSION CABLE FOR VSSTAR
VSSTARFSNW	SPO2 FINGER SENSOR NEONATE WRAP
VSSTARFSPH	SPO2 FINGER SENSOR PEDIATRIC HARD
VSSTARFSPS	SPO2 FINGER SENSOR PEDIATRIC SOFT
VSSTARS	STYLUS FOR VSSTAR
VSSTARTPR/E	TEMPERATURE RECTAL/ESOPHAGEAL
VSSTARTPSA	TEMPERATURE SKIN PROBE ADULT
VSSTARTPSN	TEMPERATURE SKIN PROBE NEONATE
VSSTARTPSP	TEMPERATURE SKIN PROBE PEDIATRIC

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