

X500i

Multi-parameter patient monitor



Features

- 15" High Resolution color, Slim display
- Automatic Storage patient data when power off
- Independent alarm for technical and physiological
- Display all trends information is single screen
- Review and save one hour waveform
- Big Text/ OxyCRG/ Trends graph etc. interface selectable
- Individual inner structure design, suitable for maintenance
- Network system support central monitoring connectivity

Standard Configuration

ECG/SpO2/RESP/NIBP/PR/TEMP/HR/Lithium Battery

Optional Configuration

Touch Screen, Wall mount, Trolley, Thermal Printer, 2xIBP/EtCO2/CO

Technical Specifications

X500i

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ECG

Safety Standard: EC11、EC13、EN60601-2-27/IEC60601-2-27、IEC60601-2-25、YY91079、GB9706.25

Lead Type: 3 lead: I、II、III
5 lead: I、II、III、aVL、aVF、V
12 lead: I、II、III、aVL、aVF、V1~V6

Waveforms scanning speed: 12.5mm/s、25mm/s、50mm/s
Bandwidth(-3dB): Diagnostic Mode: 0.05~150Hz
Monitor Mode: 0.5~40Hz
Surgery Mode: 1~20Hz

CMRR (Notch filter was closed): Diagnostic Mode: ≥ 90 dB
Monitor Mode: ≥ 105 dB
Surgery Mode: ≥ 105 dB

Notch: Monitor Mode and Surgery Mode: 50/60HZ
notch filter will automatically open
Diagnostic Mode: 50/60HZ notch filter manually open or close

Differential Input

Impedance: $\geq 5M\Omega$
Signal Input Range: $\pm 8mV$ (peak value)
Electrode polarization voltage range: $\pm 500mV$
Baseline Restore: After defibrillation <5s
Leakage: $<10\mu A$

NIBP

Safety Standard: EN 60601-2-30/IEC 60601-2-30、EN 1060-1、1EN 1060-3、SP10

Measurement Method: Automatic Oscillometric
Operation Mode: Manual / Automatic / Continuous

Auto time interval: 1/2/3/4/5/10/15/30/60/90/120/180/240/480min
Continuous mode measurement time: 5min

Max Measurement Cycle: Adult, Pediatric: 180s
Neonate: 90s

Applicable Scope of HR: 40~240bpm

Normal Measurement

Range (mmHg):	Adult	Pediatric	Neonate
Systolic	40~270	40~200	40~135
Diastolic	10~210	10~150	10~100
Mean	20~230	20~165	20~110

Accuracy: Max mean error: $\pm 5mmHg$
Max standard error: 8mmHg

Resolution: 1mmHg

Initial charge pressure: Adult: 178 \pm 5mmHg
Pediatric: 133 \pm 10mmHg
Neonate: 87 \pm 5mmHg

Software over-pressure

protection: Adult: 297 \pm 3mmHg
Pediatric: 240 \pm 3mmHg
Neonate: 147 \pm 3mmHg

Hardware over-pressure

protection: Adult: 330 \pm 5mmHg
Pediatric: 330 \pm 5mmHg
Neonate: 165 \pm 5mmHg

SpO₂

Measurement Range: 0~100%
Resolution: 1%
Accuracy: 70~100%: $\pm 2\%$ (Adult/Pediatric)
70~100%: $\pm 3\%$ (Neonate)
70~100%: $\pm 3\%$
0~69%: Not defined

Measurement update cycle: 1s

PR

Measurement Range: 20~254bpm
Resolution: 1bpm
Accuracy: ± 3 bpm(Non-motion state)
 ± 5 bpm(Motion state)

Measurement update cycle: 1s

TEMP

Safety Standard: EN 12470-4
Measurement Method: Thermistor
Measurement Range: 0~50 $^{\circ}C$ (32~122) F
Resolution: 0.1 $^{\circ}C$
Accuracy: 0.1 $^{\circ}C$ or 0.2F (without sensor)
Measurement update cycle: 1s
Minimum measuring time: Skin: <100s
Rectal: <80s

IBP

Safety Standard: EN 60601-2-34/IEC 60601-2-34
Measurement Method: Invasive direct measurement
Measurement Range: Art 0~300mmHg
PA -6~120mmHg
CVP/RAP/LAP/ICP-10~40mmHg
P1/P2-50~300mmHg

Resolution: 1mmHg
Accuracy: $\pm 2\%$ or $\pm 1mmHg$, whichever is greater
Measurement update cycle: 1s

Pressure Sensor

Driving Voltage: 5VDC、 $\pm 2\%$
Sensitivity: 5 $\mu V/V/mmHg$
Impedance Range: 300~3000 Ω

CO₂

Measurement Mode: Side stream、Main stream
Measurement Method: Infrared ray radiation absorption technology

Main Stream CO₂ module

Safety Standard: EN 864、ISO 99186
CO₂ Measurement Range: 0~150 mmHg
Accuracy: 0~40 mmHg: $\pm 2mmHg$
41~70 mmHg: $\pm 5\% \times reading$
71~100 mmHg: $\pm 8\% \times reading$
101~150 mmHg: $\pm 10\% \times reading$
Resolution: 0~69 mmHg: 0.1 mmHg
70~150 mmHg: 0.25 mmHg
Response Time: <240ms(10%-99%)
Delay Time: <60ms
AwRR measurement range: 0~150rpm
AwRR measurement resolution: 1rpm

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