

Technical Specifications

ECG

Input dynamic range:	$\pm(0.5\text{mVp}\sim 5\text{mVp})$
Differential input impedance:	$\geq 10\text{M}\Omega$
Bandwidth:	0.05~150Hz (Diagnostic) 0.5~40Hz (Monitoring) 1~20Hz (Operation)
CMRR:	$\geq 90\text{dB}$ (Diagnostic) $\geq 105\text{dB}$ (Monitoring & Operation)
Sensitivity selection:	$\times 1/4, \times 1/2, \times 1, \times 2, \times 4$ and Auto
Sweeping speed:	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
HR measuring range:	15~350bpm
HR accuracy:	$\pm 1\%$ or $\pm 2\text{bpm}$, whichever is greater
Pacemaker pulse detection and rejection function	

RESP

Measuring range:	0~120rpm
Measuring accuracy:	$\pm 5\%$ or $\pm 2\text{rpm}$, whichever is greater

TEMP

Measuring range:	0~50 C
Measuring accuracy:	$\pm 0.1\text{C}$

NIBP

Technique:	Oscillometric method
Typical measurement time:	<30 seconds (adult cuff)
NIBP measuring range:	SYS: 40~275mmHg (Adult) 40~200mmHg (Pediatric) 40~135mmHg (Neonate)
NIBP measuring range:	DIA: 10~210mmHg (Adult) 10~150mmHg (Pediatric) 10~95mmHg (Neonate)
NIBP measuring range:	MAP: 20~230mmHg (Adult) 20~165mmHg (Pediatric) 20~110mmHg (Neonate)
NIBP measuring accuracy:	Mean difference: $\pm 5\text{mmHg}$ Standard deviation: 8mmHg
NIBP measurement mode:	Manual, Auto, STAT, Multi-cycle mode
Auto measuring intervals:	1-480min

SpO2

Technique:	Dual-wavelength optical method
Measuring range:	0%~100%
Measuring accuracy:	Arms is not greater than 2% for SpO2 range 70~100%.
PR measuring range:	30~250bpm
PR measuring accuracy:	$\pm 2\text{bpm}$ or $\pm 2\%$, whichever is greater
Low perfusion performance:	As low as 0.3%.

CO2

Technique:	Infrared optical method
Sampling mode:	Sidestream or Mainstream
Measuring range:	0~150mmHg
Measuring accuracy:	0~40mmHg $\pm 2\text{mmHg}$ 41~70mmHg $\pm 5\%$ of reading 71~100mmHg $\pm 8\%$ of reading 101~150mmHg $\pm 10\%$ of reading
Flow rate:	50ml/min $\pm 10\text{ml/min}$ (Sidestream)

Cerebral State Monitoring (CSM)

EEG sensitivity:	$\pm 400\mu\text{V}$
Noise level:	$< 2\mu\text{Vp-p}, < 0.4\mu\text{V rms}$ (1~250Hz)
CMRR:	$> 140\text{dB}$
Input impedance:	$> 50\text{Mohm}$
CSI and update:	0-100. filter: 6-42Hz, 1 sec. update
EMG%:	0-100 (logarithmic) filter: 75-85 Hz, 1 sec. update.
BS%:	0-100. filter: 2-42 Hz, 1 sec. update

IBP

Technique:	Strain gauge transducer
Input sensitivity:	$5\mu\text{V/V/mmHg}$
Measuring range:	-50~300mmHg
Measuring accuracy:	$\pm 2\%$ or $\pm 4\text{mmHg}$, whichever is greater
Measuring positions:	ART, RAP, PA, LAP, CVP ICP, AUXPI, AUXP2
Calibration:	Zero calibrating

Cardiac Output (C.O.)

Blood temperature measuring range:	23-43 C, accuracy: $\pm 0.5\text{C}$
Injecta temperature measuring range:	0-20 C, accuracy: $\pm 0.5\text{C}$
Measuring range:	0.2~20 L/min
Measuring accuracy:	$\pm 0.2\text{L/min}$ or $\pm 10\%$, whichever is greater

Other Specifications

Power supply:	AC 100V-240V, 50/60Hz, 60VA
Built-in lithium battery:	11.1V/4400mAh
Display:	12.1 inch TFT display
Alarming method:	3 levels audible-visible alarm
Networking:	Ethernet

Standard configuration

ECG, Respiration, SpO2, PR, NIBP, Temperature

Options

2-IBP, EtCO2, Nellcor SpO2, SunTech NIBP, 12-lead ECG
Cardiac Output, Cerebral State Monitoring, CMS, Touch Screen, Wifi

K12 Patient Monitor



Zaim Healthcare Enterprise
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42600 Jenjarom
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K12 Patient Monitor



12.1" display with LED backlight
9-waveform on screen

360-degree visible indicator
with 3-level alarm



Li-ion battery up to 4 hours
continuous monitoring

Integral 3-channel
thermal recorder



Accessory box for standard configuration



Parameter case for optional parameters

Features



12.1" high resolution display
Touch screen optional



9 traces on-screen waveforms
and maximal up to 13



User customized NIBP measuring
cycles up to 5-phase



Data export and software upgrade



Versatile clinical calculations for
application convenience



HL7 protocol, Bed to bed view
and 12-lead ECG available



SpO2 sensor



NIBP cuff



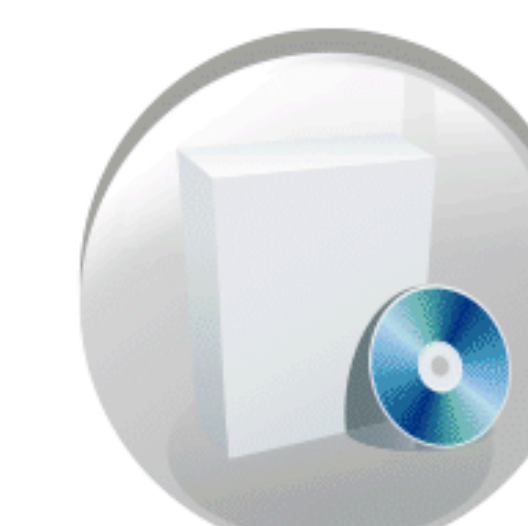
ECG cable



Temperature probe

Comprehensive calculations for clinical application

- ✦ Hemodynamics calculation
- ✦ Respiration calculation
- ✦ Oxygenation calculation
- ✦ Drug concentration calculation
- ✦ Renal function calculation



Software upgrade



Bed to bed view via
central monitor station



HL7 protocol connect
to hospital system