

CARDIOTECH K-12

Patient Monitor



12

Lead ECG
Available

HL7

Connectivity

9

On-Screen
Waveforms

Standard Parameters: ECG, TEMP, RESP, NIBP, SpO₂, PR

Optional Parameters: 2-IBP, EtCO₂, Nellcor SpO₂, SunTech NIBP, 12-lead ECG, Cardiac Output Cerebral State Monitoring, Central Monitor Station, Touch Screen

Features

- Touchscreen optional
 - Audible and visual alarm
 - 12.1" high resolution display
 - Up to 5 customizable NIBP cycles
 - Defibrillation and pacemaker detection
 - Display a maximum of 13 waveform traces
 - Bed to bed view via central monitor station
 - Display 9 different waveform traces at once
 - Convenient and versatile clinical calculations
- Data export
 - Easy to carry
 - HL7 protocol
 - Large storage
 - Easy operation
 - TFT LCD display
 - Waveform freeze
 - Software upgrade
 - 12-lead ECG available



Smart, Sleek, Essential

The CardioTech K-12 patient monitor is a sleek and modern unit that provides comprehensive monitoring capabilities for patients in various healthcare settings. The CardioTech K-12 features a high resolution color display that presents clear and detailed information, allowing for easy interpretation. With its user-friendly interface, portability, and robust functionality, the K-12 patient monitor is an essential tool in modern healthcare facilities, enhancing patient safety and improving overall clinical outcomes.

Comprehensive Calculations For Clinical Application

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



Accessories



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: 21.0~50.0°C
Measuring accuracy: $\pm 0.2^\circ\text{C}$ from 25~45°C

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)

NIBP

Technique: Oscillometric method
Typical measurement time:
<30 seconds (adult cuff)
SYS: 40~275mmHg (Adult)
NIBP measuring range:
40~200mmHg (Pediatric)
40~135mmHg (Neonate)
DIA: 10~210mmHg (Adult)
NIBP measuring range:
10~150mmHg (Pediatric)
10~95mmHg (Neonate)
MAP: 20~230mmHg (Adult)
NIBP measuring range:
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

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, AUXP1, AUXP2
Calibration: zero calibrating

Cardiac Output (C.O.)

Blood temperature measuring: range: 23~43°C, accuracy: $\pm 0.5^\circ\text{C}$
Injecta temperature measuring range: 0~20°C, accuracy: $\pm 0.5^\circ\text{C}$
Measuring range: 0.2~20 L/min
Measuring accuracy $^\circ\text{C}$ $\pm 0.2\text{L/min}$ 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, Central Monitor
Station, Touch Screen