# Technical Specifications

## ECG

| | |
|---|---|
| Input dynamic range: | ±(0.5mVp~5mVp) |
| Differential input impedance : | ≥10MΩ |
| Bandwidth: | 0.05~150Hz (Diagnostic)<br>0.5~40Hz (Monitoring)<br>1~20Hz (Operation) |
| CMRR: | ≥90dB (Diagnostic)<br>≥105dB (Monitoring & Operation) |
| Sensitivity selection: | ×1/4, ×1/2, ×1, ×2, ×4 an d Auto |
| Sweeping speed: | 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s |
| HR measuring range: | 15~350bpm |
| HR accuracy: | ±1% or ±2bpm, whichever is greate |
| Pacemaker pulse detection and rejection function | |

## RESP

| | |
|---|---|
| Measuring range: | 0~120rpm |
| Measuring accuracy: | ±5% or ±2 rpm, whichever is greater |

## TEMP

| | |
|---|---|
| Measuring range: | 21.0~50.0℃ |
| Measuring accuracy: | ±0.2℃from 25~45℃ |

## NIBP

| | |
|---|---|
| Technique: | Oscillometric method |
| Typical measurement time : | <30 seconds (adult cuff) |
| NIBP measuring range : | SYS: 40~275mmHg (Adult)<br>40~200mmHg (Pediatric)<br>40~135mmHg (Neonate) |
| NIBP measuring range: | DIA: 10~210mmHg (Adult)<br>10~150mmHg (Pediatric)<br>10~95mmHg (Neonate) |
| NIBP measuring range: | MAP: 20~230mmHg (Adult)<br>20~165mmHg (Pediatric)<br>20~110mmHg (Neonate) |
| NIBP measuring accuracy: | Mean difference: ±5mmHg<br>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: | ±2bpm or ±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 ±2mmHg<br>41~70mmHg ±5% of reading<br>71~100mmHg ±8% of reading<br>101~150mmHg ±10% of reading |
| Flow rate: | 50ml/min ±10 ml/min (Sidestream) |

## Cerebral State Monitoring (CSM)

| | |
|---|---|
| EEG sensitivity: | ±400μV |
| Noise level: | <2μVp-p, <0.4μV rms (1~250Hz) |
| CMRR: | >140dB |
| Input impedance: | >50Mohm |
| CSI and update: | 0-100. filter: 6-42Hz, 1 sec. update |
| EMG%: | 0-100 (logarithmic)<br>filter: 75-85 Hz, 1 sec. update. |
| BS%: | 0-100. filter: 2-42 Hz, 1 sec. update |

## IBP

| | |
|---|---|
| Technique: | Strain gauge transducer |
| Input sensitivity: | 5μV/V/mmHg |
| Measuring range: | -50~300mmHg |
| Measuring accuracy: | ±2% or ±4mmHg, whichever is greater |
| Measuring positions : | ART, RAP, PA, LAP, CVP<br>ICP, AUXP1, AUXP2 |
| Calibration: | zero calibrating |

## Other Specifications

| | |
|---|---|
| Power supply: | AC 100V-240V, 50/60Hz, 60VA |
| Built-in lithium battery: | 11.1V/4400mAh |
| Display: | 10.4 inch TFT display |
| Alarming method: | 3 levels audible-visible alarm |
| Networking: | Ethernet |

## Standard configuration

ECG, Respiration, SpO2, PR, NIBP, Temperature

## Options

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

# K10

## Patient Monitor


CREATIVE MEDICAL

CARDIOTECH

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# K10
## PatientMonitor



Accessory box for standard configurations


Parameter case with optional parameters

## Features

- 10.4” high resolution display
  Touch screen optional
- User customized NIBP measuring cycles up to 5-phase
- Versatile clinical calculations for application convenience
- 9 traces on-screen waveforms and maximal up to 13
- Data export and software upgrade
- 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


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