

NEONATAL PATIENT MONITOR

BM-K10

For **Comprehensive** Patient Monitoring in NICU & ICU



Technical Specifications

ECG

Input dynamic range:	± (0.5mVp~5mVp)
Differential input impedance:	≥ 10MΩ
Bandwidth:	0.05~150Hz (Diagnostic) 0.5~40Hz (Monitoring) 1~20Hz (Operation)
CMRR:	≥ 90dB (Diagnostic) ≥ 105dB (Monitoring & Operation)
Sensitivity selection:	× 1/4, × 1/2, × 1, × 2, × 4 and 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 greater
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°C
Measuring accuracy:	± 0.2°C from 25~45°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)	
DIA:	10~210mmHg (Adult) 10~150mmHg (Pediatric) 10~95mmHg (Neonate)	
MAP:	20~230mmHg (Adult) 20~165mmHg (Pediatric) 20~110mmHg (Neonate)	
NIBP measuring accuracy:	Mean difference: ± 5mmHg 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 SpO ₂ 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 41~70mmHg ± 5% of reading 71~100mmHg ± 8% of reading 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:	> 50MΩ
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:	5μV/V/mmHg
Measuring range:	-50~300mmHg
Measuring accuracy:	± 2% or ± 4mmHg, 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: ± 0.5°C
Injecta temperature measuring range:	0-20°C, accuracy: ± 0.5°C
Measuring range:	0.2~20 L/min
Measuring accuracy:	± 0.2 L/min or ± 10%, whichever is greater

Other Specifications

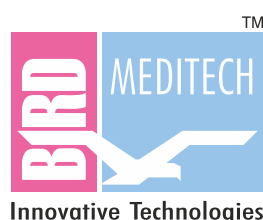
Power supply:	AC 100V-240V, 50/60Hz, 60VA
Built-in lithium battery:	11.1V/4400mAh
Display:	10.4 inch TFT display
Alarming method:	3 levels audible-visible alarm
Networking:	Ethernet

Standard configuration

ECG, Respiration, SpO₂, PR, NIBP, Temperature

Options

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



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