

# ADULT, PEDIATRIC & NEONATAL PATIENT MONITOR

For Comprehensive Patient Monitoring in NICU & ICU

Available in 10.4", 12.1" & 15" Screen sizes

Model: **BM-K12**



# 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:	21.0~50.0°C
Measuring accuracy:	$\pm 0.2^\circ\text{C}$ 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: $\pm 5\text{mmHg}$	
	Standard deviation: 8mmHg	
NIBP measurement mode:	Manual, Auto, STAT, Multi-cycle mode	
Auto measuring intervals:	1-480min	

## SpO<sub>2</sub>

Technique:	Dual-wavelength optical method
Measuring range:	0%~100%
Measuring accuracy:	Arms is not greater than 2% for SpO <sub>2</sub> 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%.

## CO<sub>2</sub>

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:	$> 50\text{M}\Omega$
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:	$\pm 0.2\text{L/min}$ 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, SpO<sub>2</sub>, PR, NIBP, Temperature

## Options

2-IBP, EtCO<sub>2</sub>, Nellcor SpO<sub>2</sub>, SunTech NIBP, 12-lead ECG, Cardiac Output Cerebral State Monitoring, Central Monitor Station, Touch Screen

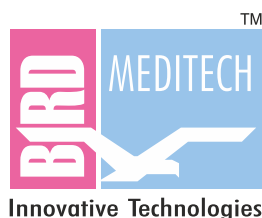
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1-10-51/2, Road 6B, Dwarakapuram,  
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