## BeneHeart R12

## Electrocardiograph



Physical	
Height:	128 mm
Width:	365 mm
Depth:	305 mm
Weight:	4.8 Kg
Processing	
ECG sampling rate:	1000 samples/second/channel
Pacer detection sampling rate:	16,000 samples/second/channel
ECG amplifier:	DC-coupled
Acquisition mode:	Pre-acquisition or post-acquisition, provide 10 seconds of instantaneous ECG acquisition
Dynamic range:	AC Differential ±10 mV, DC offset ±600 mV
Resolution:	1 μV/LSB
Frequency response:	−3 dB @ 0.05 to 150 Hz
Baseline drift filter:	0.05 Hz, Baseline Drift Removal (BDR)
High cut-off frequency:	20 Hz, 35 Hz, 150 Hz
AC filter:	50/60 Hz
Common mode rejection:	≥110 dB (with AC filter switched off)
ADC:	24 bit
Input impedance:	≥50 MΩ @ 10 Hz, defibrillator protected
Time Constant:	≥3.2 s
Noise Level:	≤15 µV
Patient leakage:	<10 μΑ
Heart rate meter:	30 to 300 BPM $\pm 10\%$ or $\pm 5$ BPM, whichever is greater.
Sensitivity/gain:	2.5, 5, 10, 20, L=10 C=5, L=20 C=10 mm/mV, Auto
Boot time:	≤7 s
Display	
Color:	24 bit Color display
Display type:	8 inch diagonal, TFT LCD with LED graphics backlit
Display resolution:	800x480
Display data:	Patient ID, Patient name, gender, age, heart rate, clock, battery power indicator, waveforms, lead labels, speed, gain,
	filter settings, warning messages, information messages, network status, USB
Power	
Power supply:	AC input (without external power adaptor) or battery operation
AC Power	
Input voltage:	100 to 240 VAC ±10%
Input power:	100 VA
AC frequency:	50/60 Hz ± 3 Hz
Battery	
Battery type:	Rechargeable Lithium ion battery, 4500 mAh
Charge time:	≤ 6h to 90% and ≤ 7h to 100% with device off

Writer	
Writer technology:	Thermal dot array
Writer speed:	5, 12.5, 25 & 50 mm/s
Number of traces:	12 leads
Writer speed accuracy:	±5%
Writer amplitude accuracy:	±5%
Writer resolution:	Horizontal 40 dots/mm @ 25 mm/s, Vertical 8 dots/mm
Paper type:	Thermal Z-fold A4 paper (210 mm x 295 mm)
	US Letter 8.5x11 in (215 mm x 280 mm)
Software	
Measurement and interpretation:	Supports measurement and interpretation with the University of Glasgow ECG analysis algorithm
Resting ECG mode:	Records and prints 12-lead resting ECG with 10-second duration as a standard feature
Supported patient information:	Patient ID, secondary ID, name, age, date of birth, gender, race, medication, class, V3 electrode Placement.
Internal storage:	800 ECGs in internal memory
ECG Storage format:	XML, PDF, Mindray
Report Formats:	3x4+1R, 3x4+3R, 6x2, 6x2+1R, 12x1
Additional Functions	
Preview and review full ECG report	on screen
Reanalyze ECG automatically after changing patient's demographics	
Touch screen (Optional)	
Connect to external printer directly	у
Upload XML reports through FTP p	protocol
Support barcode reader	
Wifi (Optional)	
USB flash drive storage of PDF and	XML outputs
Accessories	
ECG patient cable with banana plugs, Limb Clamps, Chest Bulbs (IEC/AHA)	
ECG cable with Electrode clips (IEC	/AHA)
ECG patient cable with banana plu	gs, banana to tab lead adapters, ECG tab electrodes
Country-specific power cords	
Z-fold thermal paper (Letter or A4)	
Trolley	
Laser printer	
Barcode reader	

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