

Lifeguard

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*Guarding Lives Innovatively...*



## Lifeguard-ECG-12

12 Channel ECG Machine

## Features :

- ✧ Design patent, software copyright patent;
- ✧ Full keyboard, touch screen operation;
- ✧ Advanced Might-gold algorithm for automatic accurate measurements and interpretation;
- ✧ Sampling rate up to 16000Hz, pacemaker detection;
- ✧ Supporting 9/12-lead ECG configurable;
- ✧ Supporting accurate digital filter to decrease the polarization voltage and other interference;
- ✧ Save up to 1000 ECG records internally (expandable with SD card and USB flash-disk);
- ✧ Advanced ECG analysis: VCG/TVCG/VLP/HRV/Pharmacological Study(optional);
- ✧ Support DAT、SCP、PDF、XML、DICOM and worklist, connecting with HIS seamlessly(optional);
- ✧ Optional two Lithium-ion batteries, suitable for different applications;
- ✧ Support external USB printer, Keyboard, Mouse, Bar-code scanner etc.;
- ✧ Data transfer to PC directly by Ethernet, USB or Wi-Fi (optional);
- ✧ Data upload automatically through FTP or Might-net ECG management system

## Technical Specifications

<b>Display</b>	
Resolution	1024*600 (e1200);
Type	7 inch TFT screen (e1200);
Operation	Touchscreen
<b>Requisition</b>	
Leads	9/12leads
Sampling Frequency	16000HZ
A/D Resolution:	24bits
HR Range:	30~300BPM
Accuracy:	1BPM
Time Constant:	≥3.2s
Input Circuit Current	≤0.01μA
Input Voltage Range	≤±5mVp-p
Calibration Voltage	1mV±2%
DC Offset Voltage	±600mV
Input Impedance	≥50MΩ(10HZ)
CMRR	≥120dB
Frequency Response:	(0.01 ~ 300Hz) <sup>+0.4dB</sup> <sub>-3.0dB</sub>
Noise	≤12.5μV (P-P)
AC Filter	50Hz/60Hz/Off
DFT Filter	0.01HZ/0.05HZ/0.32Hz/0.67Hz
EMG Filter/Low-pass	25Hz/35Hz/45Hz/75Hz/100Hz/150Hz/270Hz/300Hz
Pacemaker Detection	Amplitude: ±750uV~±700mV; Width: 50us~2.0ms; Sampling Frequency: 16000HZ
<b>Power</b>	

Power supply	AC input, 100V-240V
AC frequency	50/60Hz
Battery	Rechargeable Lithium-ion battery, 2200mAh
Option	Rechargeable Lithium-ion battery, 2200mAh*2pcs
<b>Printer</b>	
Gain	2.5mm/mV、 5mm/mV、 10mm/mV、 20mm/mV,10/5mm/mV, AGC±5%
Speed	5 mm/s、 6.25 mm/s、 10 mm/s、 12.5 mm/s、 25mm/s、 50mm/s (±3%)
Recorder:	Thermal dot-matrix recorder
Printing Density	8 dots per mm / 200 dots per inch (amplitude axes) 40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)
Recorder Paper:	Folded thermal paper: 210 mm×140 mm ×20m
<b>Physical</b>	
Dimension	369*260*83mm
Weight	3.9KGS
<b>Safety</b>	
Anti-electric-shock degree	CF type with defibrillation-proof, class I equipment
Defibrillation-proof recovery time	≤5s
Patient Leakage Current	NC: ≤10uA(AC)/ ≤10uA(DC) SFC: ≤50uA(AC)/ ≤50uA(DC)
Patient Auxiliary Current	NC: ≤10uA(AC)/ ≤10uA(DC)

Marketed By

**Lifeguard**

Medical Systems Pvt. Ltd.  
ISO 13485: 2016 Certified

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