Technical Specification

Input Circuit	Defibrillation protection
Acquisition Mode	Simultaneous 15 leads acquisition
A/D Converter	24 bits
Sampling Rate	32000Hz
Time Constant	≥3.2s
Frequency Response	0.01Hz-350Hz
Calibration Voltage	1mV
Sensitivity	2.5, 5, 10, 20, 40, 10/5, AGC (mm/mV)
Input Impedance	≥50MΩ
Noise Level	≤10μVp-p
Filters: AC Filter	50Hz/60Hz/OFF
	DFT Filter: 0.05Hz/0.3Hz/0.6Hz/OFF
	EMG Filter: 25Hz/35Hz/45Hz/75Hz/100Hz/150Hz/OFF
CMRR	≥130dB
Working Mode	Auto/Manual/Rhythm
Power Supply	100V-240V, 50/60Hz
Battery Capacity	4 hours of normal use
Recording Paper Type	thermal Z-fold paper
Record Paper	210mm x 20m
Paper Speed	5mm/s,6.25mm/s,12.5mm/s,25mm/s,50mm/s
Dimension	360mmx283mmx92mm(L/W/H)
Display	10.4 inch HD LED 1024*768 dots
Weight	Approx 3.7kg(without battery)
Internal Memory	≥1000ECG reports
Interface	Ethernet, USB, SD card

iMAC1500

Pediatric specialized ECG machine

http://www.zoncare.com

The advanced performance, multifunctional pediatric specialized ECG machine that meets difficult clinical demands

According to the difficult clinical demands of electrocardiogram in pediatric, and we inject specialized features and powerful application scenarios in iMAC1500. Streamlined operation and familiar touch design offer you a new experience.

Moreover, the iMAC1500 can be integrated in a hospital information system and the ECG reports can be transmitted conveniently and quickly.

Pediatric ECG Clinical Difficulties

- Pediatric QRS voltage is higher than adults, the general ECG frequency response is not enough
- The doctors often used V3 instead of V4R, hard to acquire complete data of right ventricular ECG
- Doctor is hard to do the ECG for crying kids
- General ECG machine has little pediatric ECG clinical data that couldn't diagnose accurately

Age-related changes

Waveform duration

Naughty kids

Right axis deviation

T wave

Heart rates

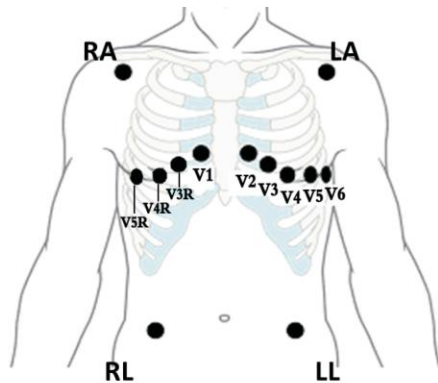High amplitude

Breakthrough to iMAC1500

Accurate Display Wave Amplitude

The minimum bandwidth should be 250Hz to record pediatric ECGs which is pubilished by AHA(Circulation.2001;104:3087-3090)
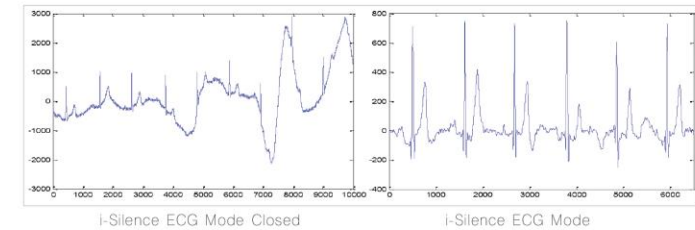The iMAC1500 frequency response range is 0.01Hz-350Hz that can display pediatric ECG wave accurately.

Heart Rhythm Society
Five Things Physicians and Patients Should Question
HRS

AMERICAN COLLEGE OF CARDIOLOGY
ACC

American **Heart** Association | American **Stroke** Association®
AHA

15-lead Interpretation

iMAC 1500 offers 15-lead interpretation to enable a more complete data of children's right ventricular

i-Silence™ ECG Algorithm

iMAC 1500 combines the particular ECG algorithm that mainly applied for the crying children and it effectively reduce the interference of the emotional environment and guarantees the accurate recording data.

i-Silence ECG Mode Closed   i-Silence ECG Mode

Levocardia ECG Mode

Levocardia ECG Mode and dextrocardia ECG Mode could be switched automatically and doctors have no needs to use chest electrodes twice, iMAC 1500 greatly simplifies clinical operations.
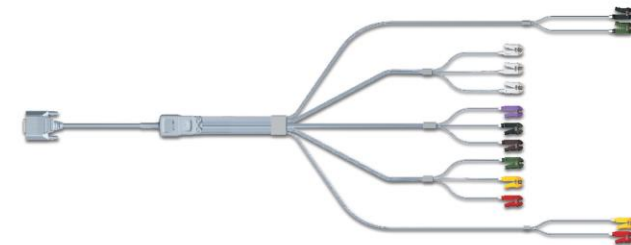
Levocardia   Dextrocardia

Accessories

iMAC 1500 pediatric ECG cables are designed with the thinner and high quality imported TPU material, especially the electrodes are decorated with child's simplicity.

User Friendly Design

Standard configured the Multi-axis TP
innovative thermal printer can trace each segment wave clear in any application scenarios

10.4 color touch-screen

Alphanumeric keyboard

Bendable bracket

Storage baskets

Garbage sorting box

Intelligent Networking

Support data transmission to PC via LAN port, USB port, SD card and WIFI
ECG data can be saved as HL7, XML, PDF, PNG, DICOM or ZQECG format
Support connecting with HIS, EMR, PACS and other hospital ECG management system

Support different ECG management system
ECG Network system
Support abundant peripherals
Zoncare cloud system
ECG diagnostic center

Support different ECG management system

ECG network system

Zoncare cloud system

Support abundant peripherals

XML,ZQECG,HL7

ECG diagnostic center