

HARTPRO 3

MDXUSA[®]
Medical Equipment
Solutions



Three channel ECG Printing

3.5" TFT Color Screen

Sample 12 leads ECG signals simultaneously

Recording and displaying ECG waveforms in auto/manual mode

Auto-measuring and Auto-diagnosing (Interpretation)

Internal memory case database



MDX[™] Instruments

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Features

- 3.5" TFT Color LCD display shows the working status and ECG waveform. Check the waveform before printing to save record paper.
- 12 leads ECG simultaneous acquisition, digital signal processor, to get higher quality ECG waveforms through the AC filter, baseline filter and EMG filter of the ECG signals.
- Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc., to be easy for interpretation.
- Include multiform printing modes and format, such as auto 3*4 +1, auto 3*4, auto 2*6 +1, auto 2*6, auto 4*3, rhythm 4, rhythm 3, rhythm 2 and manual etc; the length of wave printing can be adjusted and the function of periodic printing is included to satisfy different applications.
- The instrument has the function of regular auto-analysis and auto-interpretation of ECG waveform parameter, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, T Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1) etc and auto-interpretation conclusion to help reducing doctor's abundance and improve working efficiency.
- The power supply includes both AC/DC. This device includes built-in lithium polymer rechargeable battery. It can standby for 4 hours, print 150 pieces of ECG waveform and print 90 minutes continually under the best DC state to satisfy the need of visiting patients and physical examination.
- It has build-in storage with large capacity, and can memory more than 1000 cases, which is easy for the doctor review and statistic.



Technical Specification

- Safety Type: Class I, Type CF applied part, which has defibrillation-proof applied part
- Lead : Standard 12 leads
- Input way: Floating and defibrillation protection
- Patient leak current : <math><10\mu\text{A}</math>
- Sampling rate : 1000Hz
- A/D conversion: 12bit
- Frequency response: 0.05Hz~150Hz (-3dB, + 0.4dB)
- Time constant: >3.2s
- CMRR: $\geq 60\text{dB}$, $\geq 100\text{dB}$ (With AC filter)
- Enduring polarization voltage: $\pm 500\text{mV}$
- Noise level: $\leq 15\mu\text{Vp-p}$
- EMG interference filter: 25Hz/35Hz (-3dB)
- AC filter: 50Hz/60Hz ($\geq 20\text{dB}$)
- Recording way : Thermal printing system(8spots/mm)
- Recording paper: 80mm(W) \times 20m(L)
- Sensitivity: 2.5mm/mV 5mm/mV 10mm/mV 20mm/mV 40mm/mV
- Paper speed:
Auto-mode: 25mm/s, 50mm/s
Manual-mode: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s
- Power supply: AC:100/240V \square 50/60Hz
DC:7.4V, 3700 mAh rechargeable lithium battery
- Accessories:
 - ECG leads 1 set
 - Limb electrode clamp 1 set
 - Chest electrode 1 set
 - Power connection 1 piece
 - Ground wire 1 set
 - User manual 1 set

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