

HARTPRO 12

MDXUSA®
Medical Equipment
Solutions



Twelve channel ECG Printing

8" 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 Management



MDX™ Instruments

Bridgeport, Connecticut, U.S.A

www.mdxinstruments.com

info@mdxinstruments.com

MDX™ Instruments reserves the right to make changes, including change in price, content, description, terms, appearance etc. at any time without prior notice.



Features

- 8" TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper.
- 12 Leads ECG simultaneous gather, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering 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 contrast diagnosis.
- Multiply printing modes and formats, including 12*1, 6*2+1 (rhythm lead), 6*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications.
- The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden.
- AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination.
- Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics.
- System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report.
- System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing.



Technical Specification

- Input way: Floating and defibrillation protection
- Lead: Standard 12 leads
- Patient leak current: <math><10\mu\text{A}</math>
- Sampling rate: 1000Hz
- A/D change: 10 Bit
- Frequency response: 0.05Hz~150Hz(-3dB,+0.4dB)
- Time constant: Time constant>3.2s
- CMRR: >60dB, >100dB (With AC filter)
- Enduring polarization voltage: $\pm 500\text{mV}$
- Noise level: $\leq 15\mu\text{Vp-p}$
- EMG interference filter: 35Hz(-3dB)
- AC filter: 50Hz/60Hz($\geq 20\text{dB}$)
- Sensitivity choice: 5, 10, 20mm/mV, error: $\pm 5\%$. Standard sensitivity is 10mm/mV $\pm 0.2\text{mm/mV}$
- Recording way: Thermal printing system
- Auto-record: according the the record format and auto-mode to set, auto leads-changing, auto measurement.
- Manual record: according the record format to record, manual leads-changing.
- Specification of recording paper: 50mm(W) \times 20mm(L) High-speed thermal paper
- Paper speed: 25mm/s, 50mm/s, error: $\pm 5\%$
- Product safety type: Class I, type CF defibrillator proof
- Fuse Specification: 2 pcs $\phi 5 \times 20\text{mm}$ AC time lag;
- Power supply: AC: 100~240V, 50/60 Hz
DC: 7.4V, 2000 mAh rechargeable lithium battery

Accessories:

- ECG leads 1 set
- Limb electrode clamp 1 set
- Chest electrode 1 set
- Power connection 1 piece
- Recording paper 1 piece
- Ground wire 1 set
- User manual 1 piece

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