12 ch ECG

Cardio7-S

* Model name : Cardio7

7" Color TFT LCD 12 Channel Interpretive Resting ECG with Touch Screen

* Print out ECGs in multiple formats, including 12, 6 and 3 channel reports
* Supports USB Barcode Scanner & USB Memory Storage
* 12 channel interpretive ECG
* One-touch operation (monitoring, recording mode)
* Real-time preview monitor
* 12Ch simultaneous display
* Hi-Resolution color TFT LCD (800 x 480)
* Touch screen for easy operation
* Adaptable UI (Portrait & Landscape mode)
* Rotary key access to all menus
* No Cleaning
  Using disposable mouthpiece patented sensing method
* PRE-POST bronchodilator Comparison

- Over 130 kinds of interpretation results based on advanced Minnesota code
- Memory for up to 120 patients
- PC compatible through LAN
- Pacemaker detection
- Automatic arrhythmia detection
- HRV (Heart Rate Variability) Analysis
- 5 minute long term recording
- Pulmonary test with specialized theory
- Breathing Protocol
  - FVC (Forced Vital Capacity)
  - SVC (Slow Vital Capacity)
  - MVV (Maximum Voluntary Ventilation)
- Multi-language (English, Russian, French, German, Italian, Chinese, Spanish, Turkish, Polish, Romanian, Portuguese) available



The cover color can be changed without notification

Bionet

SPECIFICATIONS

ECG >>>

ECG leads	12 lead, 12 channel simultaneous ECG and acquisition
Dimension	296(W) × 305.5(H) × 92.5(D) ㎜, approx.3.5㎏
Recording channel	3 channels + 1 rhythm, 3 channels + 3 rhythm, 6 channels + 1 rhythm, 12 channels, 60 seconds 1 channel, 5 minutes 1 channel and beat report
Sensitivity	2.5, 5, 10, 20, auto(I~aVF: 10, V1~V6: 5) ㎜/㎷
Printing speed	12.5, 25, 50 ㎜/s
Sampling rate	500 samples/sec
Filters	AC(50/60㎐, -20㏈ or better) Muscle(25~35㎐, -3㏈ or better) Base line drift(0.1㎐, -3㏈ or better) Low pass filter : off, 40㎐, 100㎐, 150㎐
Display	7" color TFT LCD display (800 x 480), 12 channels preview ECG wave
Monitor display	HR,ID, date, AC or Battery state, sensitivity, speed, number of saved data, printing form, rhythm lead
User interface	Touch screen (Alphanumeric and symbol available), Keyboard, rotary push-knob(pop-up menu)
Patient data	ID, name, age, sex, height, weight, smoke, race
Basic measurement	Heart rate, PR int, QRS dur, QT/QTc, P-R-T axis
Recorder	Thermal print head, roll paper Report papers : (width x length) - A4 : 215㎜(8.5") x 297㎜(11.7") - Letter : 215㎜(8.5") x 280㎜(11") Resolution - vertical : 8dot/㎜ - horizontal : 16dot/㎜
Electrical	Resolution : 500 sample/sec. Internal noise: 20㎲(p-p)max Input circuit : floating input Input impedance : ≥ 10MΩ Input voltage range : ≥ ±5mV Common mode rejection : > 100㏈ DC offset voltage : ≥ ±300mV Time constant : 3.2sec Patient leakage current : < 10㎂ Frequency response : 0.05 ~ 150㎐ Isolated and defibrillation protected
Signal quality control	Disconnected lead detection, Pacemaker pulse detection
ECG data storage	storage for 120 ECGs (Internal on flash memory), USB flash drive
Power	Power supply : AC or built-in battery(option) 95 ~ 240 VAC, 50/60㎐, 1.0 ~ 0.5A, 60W max
Battery(Ni-MH)	1 hour of normal use (approx. 100 ECG printouts)
Communication	PC connection with RS232 interface and LAN, USB Memory, USB Barcode Scanner
Safety conformity	Class I, Type BF, CE, FDA, KFDA, SFDA
Environment	Operating humidity : 30~85% Operating temperature : 10 ~ 40℃ Atmospheric pressure : 70 ~ 106KPa
Standard accessory	Power cord 1 EA, Patient cable 1 EA, Limb 1 set(4 EA), Chest ball 1 set(6 EA), Chart paper 1 EA, Operation manual 1 EA
Options	Rechargeable battery, Cart, Hanger, Bag, PC S/W

SPIROMETER >>>

Dimension	47(W) × 200(H) × 34(D)㎜, approx.250g
Measuring Values	FVC: FVC, FEV 1.0, FEV 1/FVC, FEF 0.2-1.2L, FEF 25-75%, FEF 75-85%, PEF, FEF 25%, FEF 50%, FEF 75% SVC: SVC, ERV, IRV, TV, EC MVV: MVV, FB, TV
Presentation	Flow volume loop Flow time plot Measurement values table
Measuring range	Flow : 0 to ±14 L/s Volume : 0 to ±11L
Measuring method	Differential pressure method
Prediction equation	Morris-Polgar, ECCS-Quanjer, Knudson-ITS
Sample rate	200 samples/sec
Flow impedance	<0.2 mbar s/l at 12 l/s
Measuring accuracy	Complies with ATS (American Thoracic Society)
Environment	Ambient temperature : 15 to 40℃(59 to 104° F) Relative humidity : 10 to 90%(non-condensing) Atmospheric pressure : 700 to 1060hPa
Standard accessory	Nose clip 1 EA Adapter 2 EA Operation manual 1 EA Disposable mouthpiece 1 box(100 EA)

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