



Cardio7-S

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

- * Print out ECGs in multiple formats, including 12, 6 and 3 channel reports
- * Convenient USB function (memory storage, barcode scanner Wi-Fi converter external keyboard)
- * 12 channel interpretive ECG
- * One-touch operation (monitoring, recording mode)
- * Real-time preview monitor
- * 12Ch simultaneous display
- * 7" color TFT wide display (800 x 480)
- * Touch screen for easy operation
- * 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 200 patients
- PC compatible through LAN
- Pacemaker detection
- Automatic arrhythmia detection
- HRV (Heart Rate Variability) analysis
- 3/5/10 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



SPECIFICATIONS

ECG >>>

ECG leads	12 channel simultaneous ECG and acquisition
Dimensions	300 (W) x 299 (H) x 123 (D) mm, Approx. 4 kg
Record	Auto, Rhythm, Disclosure, Arrhythmia Detect
Recording channel	3CH+1RHY, 3CH+3RHY, 6CH+1RHY, 12CH, 1CH Long time (1 min, 3 min, 5 min, 10 min) and special reports (text, guide, vector)
Sensitivity	2.5, 5, 10, 20, auto (I~aVF: 10, V1~V6: 5) mm/mV
Printing speed	5, 12.5, 25, 50, 100 mm/s
Sampling rate	2,000 samples per second
Filters	AC (50/60 Hz, -20 dB or better), Muscle (25~35 Hz, -3 dB or better), Base line drift (0.05, 0.1, 0.2 Hz, -3 dB or better), Low pass filter (off, 40 Hz, 100 Hz, 150 Hz)
Display	7" color TFT wide display (800 x 480)
Monitor display	HR, ID, date, AC or battery state, sensitivity, speed, number of saved data, printing form, rhythm lead
User interface	Touch screen, hot key, barcode scanner, USB keyboard
Patient data	ID, name, age, sex, height, weight, smoke, race
Basic measurement	Heart rate, PR, QRS, QT/QTc, P-R-T axis
Recorder	Thermal print head, roll paper Report papers: (width x length) - A4: 215 mm (8.5") x 297 mm (11.7") - Letter: 215 mm (8.5") x 280 mm (11") Resolution - vertical: 8 dot/mm - horizontal: 16 dot/mm
Electrical	Internal noise: 20 uV(p-p)max Input impedance: More than 50 MΩ Input voltage range: ± 5 mV CMRR: Greater than 105 dB DC offset voltage: ≥ ± 400 mV Patient leakage current: < 10 uA Frequency response: 0.05 ~ 150 within -3 dB Isolated, defibrillation and ESU protected
Signal quality control	Pacemaker pulse detection lead fault detection, signal saturation detection
ECG data storage	Internal storage for 200 ECGs and external USB flash drive
Power	Input: 100-240 VAC, 2-1 A, 50/60 Hz Output: 60 VA max
External link	LAN, 2 USB Port
File format	PDF, JPG, XML, MFER, DCM
Battery	Type: Replaceable and rechargeable Lithium Ion Capacity: 6 hours of continuous operation without printing or Approx. 3 hours of 200 ECG printouts
Communication	RS232, LAN, WiFi, USB flash drive, USB barcode scanner
Safety conformity	Class I, Type CF, CE, FDA, KFDA, CFDA, NCC
Environment	Operating humidity: 30~85% Operating temperature: 10~40°C
Standard accessory	Power cord (1 ea), Patient cable (1 ea), ECG clips (1 set), Disposable electrodes (1 pouch), Chart paper (1 ea), Operation manual (1 ea), Diagnosis guide (1 ea), Rechargeable battery (1 ea), USB WiFi dongle (1 ea)
Options	Cart, Hanger, DICOM 3.0

* Specifications can be changed without prior notification.

SPIROMETER >>>

Dimension	47 (W) × 200 (H) × 34 (D) mm, 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%, FIVC, FEV6, PEFT, FET 100% 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 ± 12L
Measuring method	Differential pressure method
Prediction equation	Morris-Polgar, ECCS-Quanjer, Knudson-ITS, Pereira, Korea CJK
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°C (59 to 104° F) Relative humidity: 10 to 90% (non-condensing) Atmospheric pressure: 700 to 1060hPa
Standard accessories	Disposable mouthpiece (100 ea) Nose clip (1 ea) Adapter (1 ea) Handle dock (1 ea) Operation manual (1 ea) Diagnosis guide (1 ea)

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