

MeCA303i

12 Lead Resting ECG Analysis System
3Ch Electrocardiograph

- Compact design and high performance
- High quality and easy-to-use features
- Simultaneous acquisition of up to 12 leads
- Lead-Fail, Pacemaker pulse detection
- Fast and advanced interpretation and analysis
- Real-time continuous recording of 3,6 channels



MeCA303i Electrocardiograph

Look for cost-effective ECG solution?

This is the solution.

Base on great cumulated knowledge of MEDIGATE Inc.

MeCA303i allows perfect solution for cost-effective ECG system.

You can meet various features and high quality ECG systems at low price.



Advanced Interpretation and Analysis

MeCA303i has the clinically proven interpretation program of diagnostic information with regard to rhythm, electrical axis, QRS morphology changes, conduction defects, hypertrophy characteristics, ST-T change, myocardial infarction, etc.



High Quality, Easy-to-use and Convenience

- Compact & light weight design allows advanced usability
- Color TFT LCD (480X272dots)
- Multi-languages display
- LCD preview of ECG signal appear a false lead and signal noise.
- One-button operation for acquisition, analysis, storage and printing
- 80mm width Z-fold and Roll type paper both useable.
- 100ECGs data storage in internal memory
- Using the SD-Card, MeCA303i can store up to 5000ECGs. ECGs can be edit, printing and transmission.
- Rechargeable battery operation
- Easy and fast firmware upgrade through USB memory stick



ECG Management System

- Using the RS232, LAN or SD-card, ECGs can be transmitted to PC(Mecalzyer) from the cardiograph for ECG management.
- Server/Client network service capability Image (jpg or bmp) report printing capability
- XML ECG file format

Accessories



Display	
Type	4.3 inch Color TFT LCD
Resolution	480 X 272 dots
Computerized Electrocardiograph	
ECG Storage	Basic - 100ECGs (typical), Option - 5000ECGs in SD Card
Acquisition & Analysis	12Leads simultaneously
Dynamic Range	AC differential : $\pm 5\text{mV}$, DC offset : $\pm 300\text{mV}$
Sampling Rate	2000 samples/second/channel
Frequency Response	0.04 to 150Hz
Common Mode Rejection	$\geq 100\text{dB}$
Input Impedance	$\geq 10\text{M}\Omega$
Communication	PC communication with RS232 interface and LAN
Firmware Upload	Use the USB memory stick
Filter	AC: 50/60Hz Low Pass Filter: 40, 100, 150Hz Baseline Filter: 0.05, 0.16, 0.3, 0.5Hz Muscle Filter[25 or 35Hz] AFS : Anti Floating System
Lead-Fail Detection	Lead fail alarming of each electrode by visual and sound warning
Pacemaker Pulse Detection	LCD preview and indication on recording paper of pacemaker pulse
Writer	
Type	Thermal dot array[Voltage axis:8dots/mm , Time axis:16dots/mm]
Speeds	5, 10, 25, 50mm/sec
Number of Traces	3 or 6 user-selectable
Sensitivity/Gain	5, 10, 20mm/mV
Speed Accuracy	$\pm 5\%$ (Maximum)
Amplitude Accuracy	$\pm 5\%$ (Maximum)
Paper Type/Size	Z-fold : 80mm x 80mm[300sheets/pack], Roll : 80mm x 30m
Electrical	
Power Supply	AC or Battery operation
AC Input	100 - 240VAC 50/60Hz, 70VA
Fuses	Qty. 2, 250Vac T6.3AL, IEC[5x20mm]
Battery Type	1.2V x 8 2.4Ah, Rechargeable Nickel Metal Hydride Cylindrical Cell
Battery Capacity	Charging Time : 4hours, Standby Time : 2hours, Printing : 100recordings[Normal Condition]
Physical	
Dimension	311x242x84 [W x L x H] mm
Weight	2.5Kg [including battery] without paper
Environmental	
Operating Conditions	Temperature range 10 - 45°C Humidity range 20%~95% [not condensing] Atmosphere Pressure: 700 to 1060 hPa
Storage/Transportation Condition	Temperature range - 15~50°C Humidity range 20%~95% [not condensing] Atmosphere Pressure: 500 to 1060 hPa
Safety	
Type of protection against electrical shock	Class I, internally powered
Dust and water resistance	IPX0
Patient mode of operation	Continuous
Patient leakage current	$< 10 \mu\text{A}$
Degree of protection against electrical shock	Type CF with defibrillation protection
Maintenance frequency	Daily visual inspection and routine cleaning [if needed] performed by user. Use a commercially available, industrial strength disinfectant cleaner on any part of the equipment (other than electrodes) which comes into direct contact with the patient. Every six months routine maintenance checks and test performances are recommended.
Certification	Certified for IEC60601 - 1 CE marking for Council Directive 2007/47/EC concerning Medical Devices meets applicable IEC60601-2-25, IEC60601-2-51 requirements



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