

E L E C T R O C A R D I O G R A P H



12-Lead Resting ECG Analysis System

MeCA412i

12 Lead Interpretative resting ECG
in morphology, rhythm and conduction



MeCA412i ELECTROCARDIOGRAPH



- 12 Lead Interpretative ECG
- Graphic LCD (320×240 dots)
- ECG Storage [typical : 100ECGs, option : 5000ECGs]
- Built-in high resolution printer
- Rechargeable battery
- Software management [PC interface : RS232, LAN(reserve)]
- Firmware upgrade using USB memory stick

● Measurement and average complexes

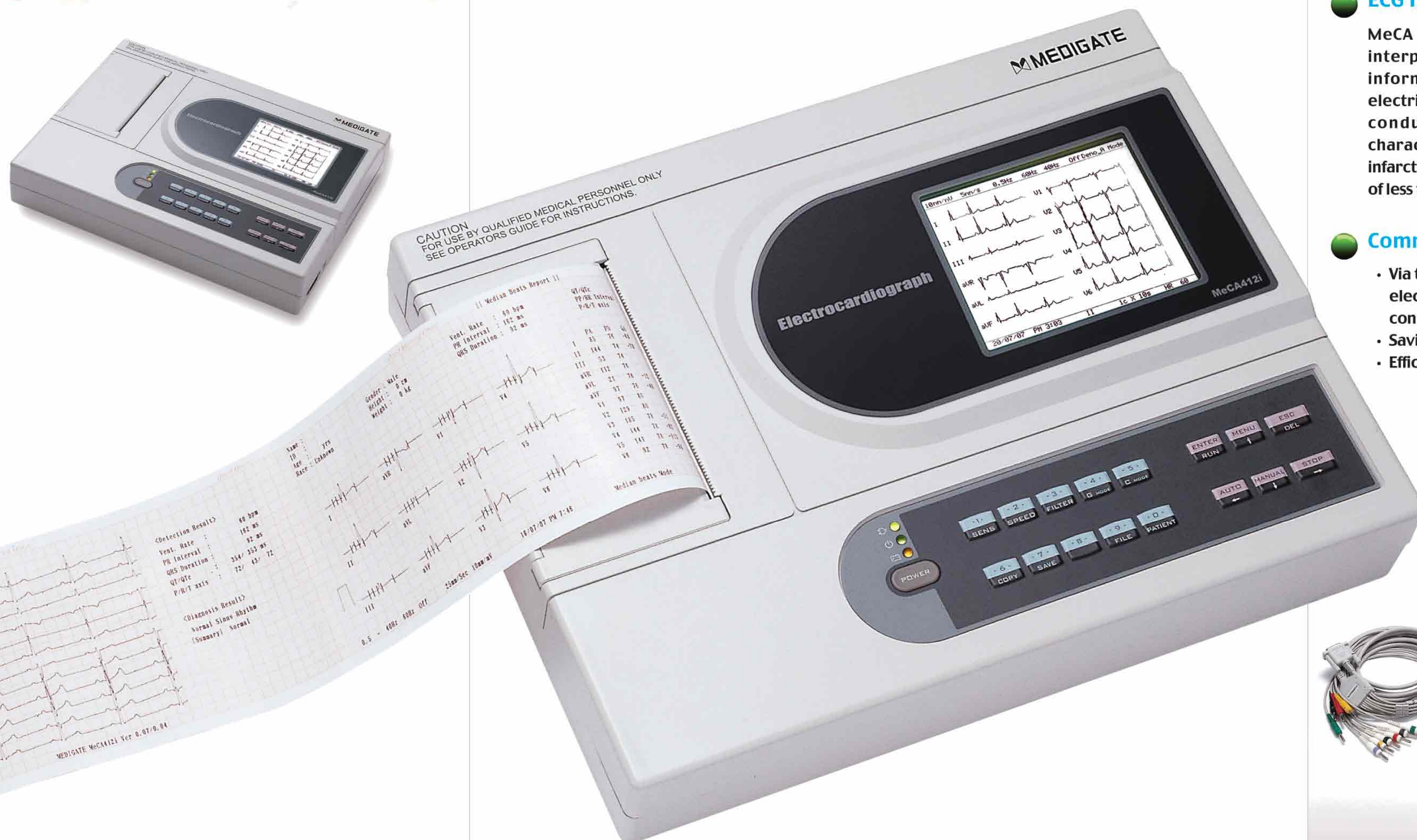
MeCA 412i measuring program determines precisely the beginning and end points of P waves, QRS complexes and T waves based on noise reduced average complexes. Electrical axis as well as exact time and amplitude measurement are provided.

● ECG Interpretative

MeCA 412i 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. with an interpretation time of less than 6 seconds.

● Communication with PC

- Via the serial interface, the electrocardiograph can be directly connected to PC.
- Saving and transmitting of measured data
- Efficient patient information management



Standard accessories



MeCA412i Specifications

Display	
Type	103mm(W) X 77,22mm(H) STN mono LCD
Resolution	320 X 240 dots
Computerized Electrocardiograph	
ECG Storage	Basic -100 ECG' s (typical) Option - 5000 ECG' s in SD Card (1GB)
Pre-acquisition	Provides 10s of instantaneous ECG acquisition
Dynamic Range	AC differential: $\pm 5\text{mV}$ DC offset: $\pm 300\text{mV}$
Sampling Rate	500Hz
Frequency Response	0,05 to 150Hz
Common Mode Rejection	100dB
Input Impedance	$> 50\text{M}\Omega$
Patient Leakage Current	$< 10\mu\text{A}$
Communication	PC communication with RS232 interface and [LAN (reserve)]
Firmware Upgrade	Use the USB memory stick
Filter	AC: 50/60Hz Low Pass Filter: 40, 100, 150Hz High Pass Filter: 0,05, 0,5Hz Muscle Filter
Writer	
Type	Thermal dot array
Speeds	5, 10, 25, 50mm/sec
Numbers of Traces	3, 6 or 12 user-selectable
Sensitivity/Gain	5, 10, 20mm/mV
Speed Accuracy	$\pm 5\%$
Amplitude Accuracy	$\pm 5\%$
Paper Type/Size	Thermal Roll, 110mm X 30m
Electrical	
Power Supply	AC or Battery operation
AC Input	Voltage: 100-240VAC Frequency: 50/60Hz
Battery Type	12V 3,8Ah, Rechargeable Nickel Metal Hydride Cylindrical Cell
Battery Capacity	150 basic reports (Auto Mode) or 5hours continuous operation (without printing)
Battery Charge Time	Approximately 6hours from total discharge
Physical	
Dimension	351 X 268,5 X 63 (W x L x H) mm
Weight	2,7Kg (including battery) without paper
Environmental	
Operating Conditions	Temperature range 10-45 $^{\circ}\text{C}$ Humidity range 20%~95%(not condensing) Atmosphere Pressure: 700 to 1060 hPa
Storage/Transportation Condition	Temperature range -20~60 $^{\circ}\text{C}$ Humidity range 10%~95%(not condensing) Atmosphere Pressure: 500 to 1060 hPa
Safety	
Certification	Certified for IEC60601-1 CE marking for Council Directive 93/42/EEC concerning Medical Devices Meets applicable IEC60601-2-25 requirements
Type of protection Against Electrical Shock	Class 1, internally powered
Dust and Water Resistance	IPX 0
Patient Mode of Operation	Continuous
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.

MEDIGATE of Certification



MEDIGATE

<http://www.medigate.biz>

9th floor, Na-dong, Silla Techonvill, 39-3,
Dang-dong, Gunpo-si, Gyunggi-do, Korea 435-010
Tel: +82-31-458-0977 Fax: +82-31-458-0978
E-mail: medigate@medigate.biz