MAC* 2000

Product datasheet



Instrument Type

Microprocessor augmented automatic electrocardiograph; 10-leadwire, 12-lead simultaneous acquisition with programmable lead configuration.

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Processing	
ECG Interpretation	Marquette* 12SL ECG Analysis Program for Adults and Pediatrics
Computerized measurements	12-lead analysis
ECG analysis frequency	500 or 1000 samples/second/channel
Digital sampling rate	16000 samples/second/channel for normal data acquisition
Pace sampling rate	75K samples/second/channel
ECG on-screen preview	On-screen preview of acquired 10 second ECG waveform
Acquisition mode	Provides 10 seconds of instantaneous ECG acquisition
Dynamic range	AC Differential ±5 mV, DC offset ±300 mV
Resolution	4.88 μV +/-1% per LSB @ 500 SPS
Frequency range	0.04 to 150 Hz
Low cut off frequency	0.04 Hz (ADS off), 0.56 Hz (ADS On)
High cut off frequency	Configurable at 20 Hz, 40 Hz, 100 Hz or 150 Hz
Common mode rejection	>135 dB (with 50/60 Hz filter ON)
Input impedance	>10M Ω @ 10 Hz
Patient leakage	<10μA (Normal Condition), <50μA (Single Fault Condition)
Lead detection	All disconnected lead detection except RL & RA
Heart rate meter	30 to 300 BPM
Operating system	Microsoft® Windows® CE 6.0
Start-up time	Less than 30 seconds
Patient Information	
Supported patient information	Patient ID, secondary patient ID, last name, first name, height, weight, gender, race, pacemaker patient, systolic BP, diastolic BP, location number, room, order number, phone number, medication, ordering physician, referring physician, attending physician, technician, test indication



Display type 7 in color TFT display with support of minimum 32K colors Display data WYGA resolution 800 x 480 Display data Heart rate, potient ID. clock, bottery power indicator, waveforms, lead lables, speed, again and filter settings, warning messages, prompts, help messages, and 12-lead display Writer Writer technology Thermal dot arroy Writer speed 5, 12.5, 25, and 50 mm/s Number of traces Up to 12 ECG traces Writer speed accuracy 5, 12.5, mm/s @ ±5% and 25, 50 mm/s @ ±2% Writer amplitude accuracy 5, 12.5 mm/s @ ±5% and 25, 50 mm/s @ ±2% Writer resolution Horizontal 40 dots/mm @ 25 mm/s, 8 dots/mm vertical Paper type 2/eloit Themal Paper with pre-printed grid and perforation with Queue mark or Queue hole Paper size 215 mm x 280 mm Betterl and 210 mm x 295 mm IA4I, and 214.2 mm x 279.4 mm Individed Letter) Wethour Type Membrane keyboard with factile feedback - Soft function keys, alphanumeric keys (Owerty key sett, writer controls and Trim Pad cursor controls Operating modes and additional features Resting ECG mode Records and prints 12-lead resting ECGs with 10 seconds duration as a standard feature Continuously monitors ECG and prints report when arrhythmia events of the user-selected closs occur Exercise mode Records and prints 12-lead resting ECGs with 10 seconds duration as a standard feature Continuously monitors ECG and prints report when arrhythmia events of the user-selected closs occur Exercise mode Records and prints 12 lead resting ECGs with 10 seconds duration as a standard feature Continuously monitors ECG and prints report when arrhythmia events of the user-selected closs occur Exercise mode Records and prints 12 lead resting ECGs with 10 seconds duration as a standard feature Continuously monitors ECG and prints report when arrhythmia events of the user-selected closs occur Exercise mode Records and prints 12 lead resting ECGs with 10 seconds duration as a standard feature Continuously monitors ECG and prints report when arrhythmia events of the user-selected closs occur Exercise mod	Display	
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External Peripherals Keyboard Standard USB English Keyboard		• CT Data Guard®
Keyboard Standard USB English Keyboard		High security login protection
	External Peripherals	
Barcode reader Jadak-1799	Keyboard	Standard USB English Keyboard
	Barcode reader	Jadak-1799

Communication		
• Internal modem, Secured Digita	ll card, Serial, LAN, and WIFI communicates outbound to MUSE* and CardioSoft*	
Internal modem, LAN, and WIFI communicates inbound to MUSE		
RS232 serial cable	ECG Transmission with A5 & CSI Protocol	
Internal Modem	ECG Transmission with CSI Protocol	
Supported MUSE/CardioSoft	Compatible with MUSE V7.1.1 and MUSE 8.0.1/CardioSoft V6.51, CardioSoft V6.61, and CardioSoft V6.71	
RJ45 Wired LAN	ECG Transmission with CSI, DCP Protocol and Shared Directory	
Wireless LAN (WIFI)	ECG Transmission with CSI, DCP Protocol and Shared Directory	
Storage		
ECG Storage Format	XML format, Hilltop format, PDF storage format	
Storage Capacity	Internal storage of 100 or 200 ECGs	
Accessories		
ECG Cables/Leadwires	IEC/AHA Value 10LD Patient Cable/Leadwire	
	• 10-lead IEC/AHA Patient trunk cable	
	• 14-lead IEC/AHA Patient trunk cable	
	• IEC/AHA (Nst, Nax) Leadwire set (ECG 10-L w/resist, Banana)	
	IEC/AHA Set of leadwires (4mm connector, 10 leads, defibrillator proof)	
ECG Adapter	IEC/AHA Kit Adapter, 10 set Banana	
	Electrode Prep Pads, CLIP Universal GE 10/Pkg	
Electrodes	ECG Electrode Clamp (Large, 4/set)	
	Baby MAC electrodes	
	Silver Mactrode Plus 1000/CASE	
	Electrode Application System KISS 10-lead without pump	
	Electrode Application System KISS 12-lead without pump	
Other accessories	Electrode Cream 250g bottle, Electrode Spray	
	Country specific power cords	
	• Z-fold Thermal Paper with pre-printed grid and perforation with Queue mark or Queue hole of size 215 mm x 280 mm (Letter)/210 mm x 295mm (A4)/214.2 mm x 279.4 mm (Modified Letter) (150 sheets/pack, 1500 sheets/case)	
	USB data matrix barcode scanner	
	Secure Digital High Capacity Card – 4 GB	
Electrical		
Power supply	Internal AC/DC or battery operation	
AC/DC operation specifications	Input voltage: 100 to 240 VAC ±10%	
	Input current: Maximum 1.5A in voltage range 115 V to 230 V AC	
	Input frequency: 47 to 63 Hz	
Battery specifications	Battery type: Replaceable and rechargeable, Lithium Ion	
	Battery capacity: 14.4V and 16.8V Max @ 2.2 AH ±10%; 100 single page resting ECG recordings or 3 hours (typical) of continuous monitoring without printing, at a minimum	
	Battery charge time: Approximately 3.5 hours after low battery shut down (with device off)	

Physical specification	
Height	200 mm
Width	390 mm
Depth	330 mm
Weight	Approx. 5 Kg including battery, without paper
Environmental specification	
Temperature	Operating: 10°C to 40°C
	Transport/storage: -40°C to 70°C
Humidity	Operating: 20% to 95% RH non-condensing
	Transport/storage: 15% to 95% RH non-condensing
Pressure	Operating: 700 to 1060 hPA (Altitude range: 3010.9 to -381.9 meters)
	Transport/storage: 500 to 1060 hPA (Altitude range: 5570 to -380 meters)

Safety and Regulatory

- CE marking for Council Directive 93/42/EEC concerning medical devices
- EN 60601-1 (IEC 60601-1) Medical electrical equipment Part 1: General Requirements for Safety
- IEC 60601-1-1 Medical Electrical Equipment: General Requirements for Safety
- IEC 60601-1-2 General Requirements for Safety Electromagnetic Compatibility
- IEC 60601-1-4 Requirements for Collateral Standard Programmable Electrical Medical Systems
- IEC 60601-2-25 Safety of Electrocardiographs
- IEC 60601-2-51 Safety and performance of ECG recorders
- UL 60601-1: 2006 UL Standard for Safety Medical Electrical Equipment, Part 1: General Requirements for Safety
- CAN/CSA C22.2 No. 601.1 M90
- AAMI EC 11: 1991/(R) 2001/(R) 2007 Diagnostic Electrocardiography Devices
- AAMI EC 13: 2002/(R) 2007 Section 4.2.7 only
- IEC 60601-1-6 General Requirements for Safety Usability

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