GE Healthcare

MAC 1200

Resting ECG System

The MAC® 1200 digital, 12-lead electrocardiograph system offers comprehensive ECG solutions with practical features that meet the needs of hospitals, clinics, office-based practices and clinical trials. Its advanced algorithm capabilities, seamless connectivity to the MUSE® Cardiology Information System and easy-to-use features provide the highest level of quality and convenience users require.

- **One-touch operation** for acquisition, analysis, storage and printing minimizes training.
- **Measurements, interpretation and memory** are available in any combination to meet specific customer needs.
- **4 user-definable fields** for patient data entry flexibility.
- **Waveform display** allows rapid assessment of ECG rhythm and signal quality.
- **Portable, lightweight design** with carry handle allows the MAC 1200 to be easily taken wherever it's needed.
- **Full-size paper** accommodates multiple standard report formats. Optional archivist paper available for longer-term ECG storage.
- **Battery powered** for added versatility.
- **Optional CT (Clinical Trial) data guard feature** is designed to help guarantee the integrity of the digital ECG record, support facilitation of 21 CFR Part 11 compliance, enhance security and protect electronic records.

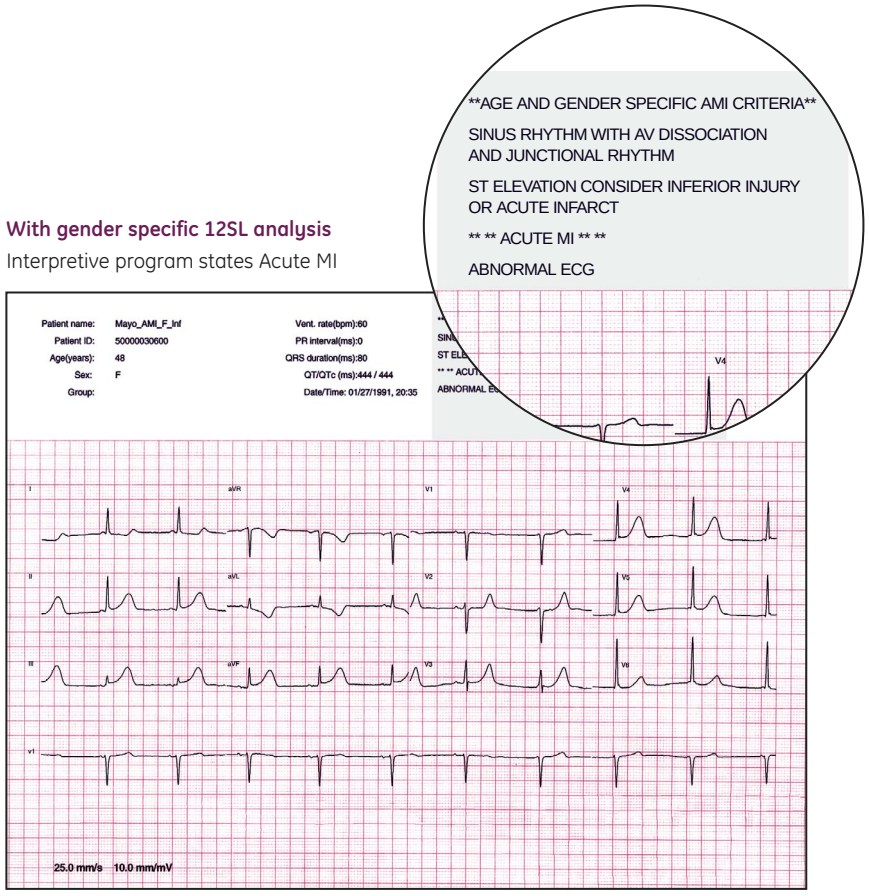
Reliable decision support

GE continues advancements in ECG acquisition and analysis, giving clinicians the diagnostic accuracy they have come to rely on. In fact, the accuracy of our Marquette® ECG analysis programs are continually validated against the clinical "gold standards" currently accepted by physicians.

- **Marquette 12-Lead ECG Analysis –** Our Marquette® 12SL™ ECG analysis program provides true, computer-interpreted analysis of adult and pediatric populations. It is the most scientifically documented 12-lead ECG algorithm, and offers the greatest accuracy for a respectable second opinion.
- **Marquette 12SL with Gender Specific interpretation** applies unique criteria for evaluating the ST segment, QT segment and T-wave of the ECG waveform, improving sensitivity to acute MIs in women and enhancing diagnostic confidence among even occasional ECG readers.
- **Auto-Arrhythmia Detection** maximizes rhythm capabilities and minimizes paper consumption and overread time.

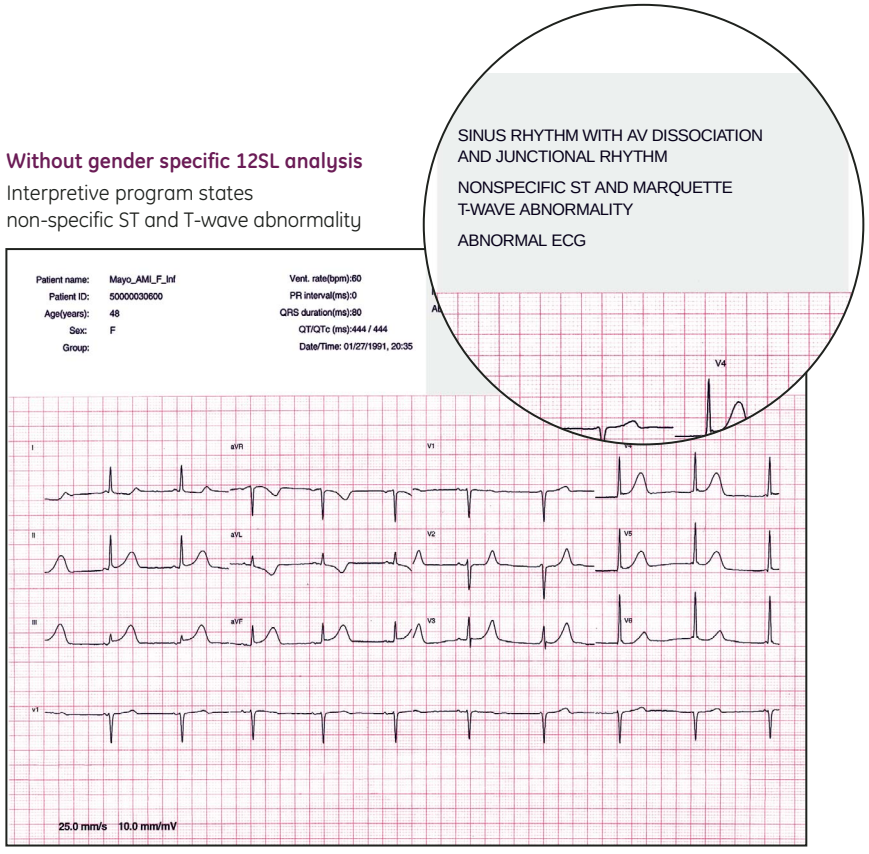
With gender specific 12SL analysis

Interpretive program states Acute MI



Without gender specific 12SL analysis

Interpretive program states non-specific ST and T-wave abnormality



Seamless connectivity

Electronic information exchange to provide clinical data anytime, anywhere.

- **All digital, all the time** – MAC 1200's digitally stored and formatted data protects against data loss that can occur in analog format.
- **Bi-directional communication with MUSE**, the leader in electrocardiograph information systems, can help clinicians increase departmental productivity and reduce errors. MAC 1200 can instantly send and receive complete patient ECG data for immediate remote review or overread.
- **Cart-to-cart communication** is also featured, making your ECG data even more accessible. Electrocardiograms can immediately be transmitted or received from another GE electrocardiograph, thus speeding up diagnosis and enhancing decision-making support.

True cost of ownership

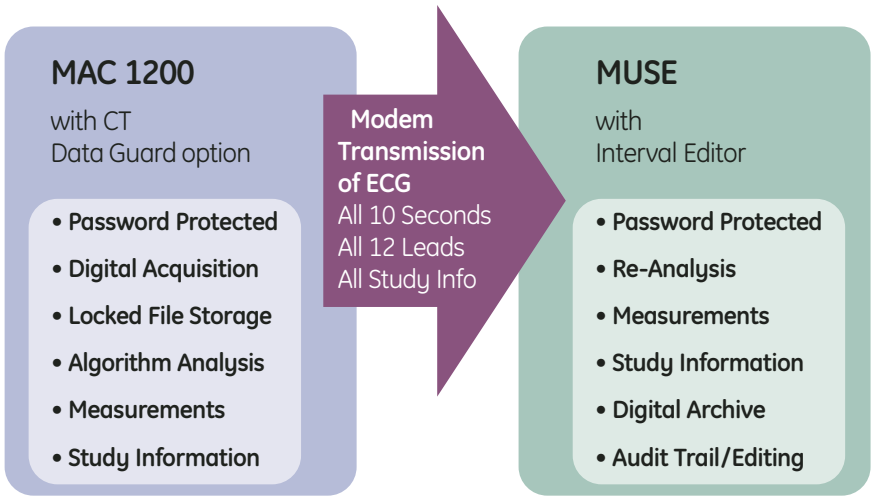
Our MAC line of electrocardiographs are not only known for standing the test of time, but are designed with features to maximize departmental uptime, minimize patient rescheduling and lower replacement costs.

- **Modular leadwire assembly**
  - Multi-Link Leadwires
  - Full variety of electrode adapters
- **3-Year warranty**
- **Field-upgradeable**

Easier regulatory compliance

Requiring minimal policies and procedures to meet compliancy, MAC 1200 with optional CT Data Guard – coupled with the complete functionality of the MUSE – gives clinical research organizations (CROs) an advantage when linked with minimal standard operating procedures created by the organization.

Digital ECG Data Integrity



Physical specifications

Height	3.7 in (94 mm)
Width	14.5 in (370 mm)
Depth	12.6 in (320 mm)
Weight	12.3 lb (5.6 kg) with battery

Performance specifications

Power Supply	
Ratings	95 to 240 VAC
Frequency	49 to 64 Hz
Battery Type	NiCad, 18V, 1.3 Ah
Battery Charge Time	4 hours
Processing	
Software	Version 6.0
Acquisition & Analysis	12 leads – simultaneously
Signal Input	Type CF according to IEC
Digital Sampling	1000 samples/second/channel
Dynamic Range	– Differential signals for AC voltage ±10 mV – Superimposed DC voltage (Polarization voltage) ±600mV
Resolution	5 µV
Frequency Response	0.08 – 150 Hz
Common Mode Rejection	> 140dB
Input Impedance	> 100 MΩ
Leakage Current	< 10 µV
Pacemaker Detection Sensitivity	All leads, duration 0.1 – 2.5 ms, amplitude > 5 µV
Display	
Type	LCD 320 x 240 pixel, backlit, Contrast adjustable
Displayed Data	Selected Lead Group, Operation Mode, Lead Check, Heart Rate, AC Filter, Muscle Filter, ADS, Gain, Speed, Name, ID, 3 ECG Waveforms
Writer	
Type	Thermal array print head
Resolution	Vertically 8 dots/mm, horizontally 25µm at 25 mm/s
Paper type	Z-fold
Writer speed	5, 25, 50 mm/s
Keyboard	
Type	Membrane keypad with tactile feedback

Environmental specifications

Temperature (with battery)	
Transport:	-22° to 140°F (-30° to 60°C)
Operating:	50° to 104°F (+10° to 40°C)
Relative humidity	
Transport:	25-95%
Operating:	25-95%
Pressure	
Transport:	500 to 1060 hPa
Operating:	700 to 1060 hPa

Certification

CE Marking

- **Compliance with:**
  - CE Mark council directive, 93/42/ECC
  - Radio interference directive, EW 55011
  - Electromagnetic compatibility, EN 60601-1-2
  - Electrical shock, fire, and mechanical hazards, UL 2601-1 and CAN/USA C22-2 601.1

Warranty

Standard warranty is three years.

Ordering Information

Visit gehealthcare.com or contact your local GE Healthcare representative.

GE Healthcare
3000 North Grandview
Waukesha, WI 53188
U.S.A.

www.gehealthcare.com

imagination at work

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