

MAC 1200 ST

Resting/Stress ECG System

The MAC® 1200 ST 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® and CardioSoft Cardiology Information Systems and easy-to-use features provide the top level of quality and convenience users require.

- **Operating Modes:**

- Automatic, 12lead simultaneous
- Manual, real-time 6-channel
- Arrhythmia, continuous monitoring with event documentation
- Stress Test (optional)

- **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 ST 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.

- KISS – **electrode application system** with device integrated suction pump (optional).

- **Stress test**

- 12-channel ST-measurements
- variety of different stress test procedures and creation of individual parameters
- automatic control of diverse bicycle ergometers and treadmills
- advanced configuration possibilities of stage and final report

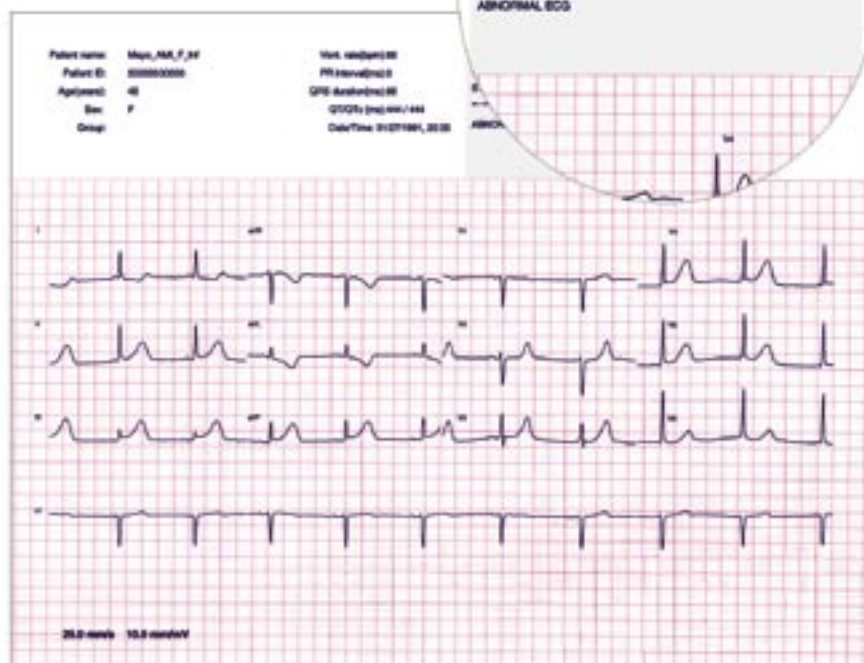


Reliable decision support

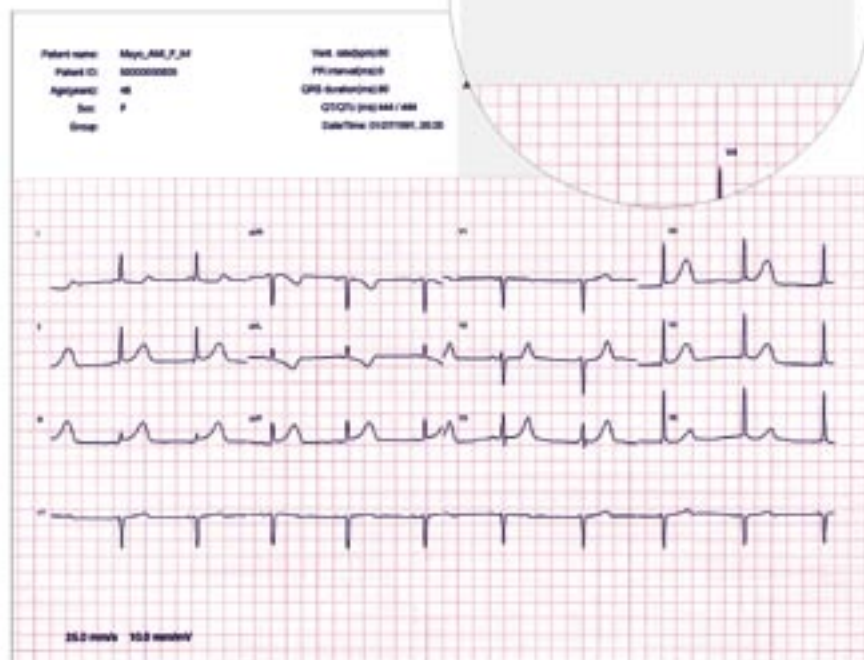
GE continues advancements in ECG acquisition and analysis, giving clinicians the diagnostic accuracy they have come to rely on. In fact, the accuracy of our Marquette® ECG analysis programs are continually validated against the clinical “gold standards” currently accepted by physicians.

- **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 ST's digitally stored and formatted data protects against data loss that can occur in analog format.
- **Communication with MUSE/CardioSoft** can help clinicians increase departmental productivity and reduce errors. MAC 1200 ST 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
- **Field-upgradeable**



MAC 1200 ST with the electrode application system KISS and eBike comfort PC plus

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

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) ± 600 mV

Resolution	5 μ V
Frequency Response	Adjustable (0.04, 0.08, 0.16) - 150 Hz
Common Mode Rejection	> 140dB
Input Impedance	> 100 M Ω
Leakage Current	< 10 μ V
Pacemaker Detection	All leads, duration 0.1–2.5 ms,
Sensitivity	amplitude > 5 μ V
Operating Modes	Automatic, 12lead simulation Manual, real-time 6-channel Arrhythmia, continuous monitoring with event documentation Stress Test (optional)
Memory	Resting: 40 ECG's

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 25 μ m 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:	-30° to 60°C (-22° to 140°F)
Operating:	+10° to 40°C (50° to 104°F)

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
 - Electromagnetic compatibility, EN 60601-1-2

Ordering Information

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

GE Medical Systems Information Technologies GmbH
Munzinger Strasse 3-5
79111 Freiburg, Germany
Tel. +49 761 4543 0 • Fax +49 761 4543 233

www.gehealthcare.com



GE imagination at work

©2006 General Electric Company – All rights reserved. General Electric Company reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.

GE, GE Monogram, MAC®, Marquette® 12SL™ and MUSE® are trademarks of General Electric Company.

GE Medical Systems Information Technologies GmbH, a General Electric company, going to market as GE Healthcare.