

GE Healthcare

MAC 5500

ECG Diagnosis System



MAC 5500 at a glance

Built on GE's proven innovation in ECG acquisition and analysis, the MAC[®] 5500 is GE's premier ECG system, delivering advanced disease management capabilities through its industry-leading collection of standards-setting algorithms and advanced networking.

The MAC 5500 system offers the sophistication required for advanced ECG applications, while its ease of use extends this level of performance to the broadest range of users possible. And, it's part of the complete GE suite of networked, non-invasive testing solutions designed to maximize efficiency and productivity in hospitals, clinics, office based practices and research institutes.

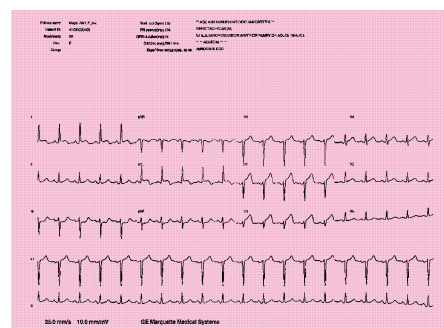
- 12-/15-Lead High-End ECG System for Resting-ECG's and Stress-Test
- Easy-to-use applications and features streamline productivity and workflow
- Advanced algorithms set the standard in ECG analysis and interpretation
- Improving Clinical Trial Workflow with CT Data Guard
- Multiple Network Capabilities (Ethernet and wireless)
- Internal Modem
- Barcode and magnetic card scanning options
- XML data export capabilities
- Internal Memory for 200 ECG's, SD-card removable Media
- Easy updating via Optioncodes
- Seamless connectivity to the MUSE[®] cardiology information system speeds data storage and ECG retrieval

One of the most complete suite of analysis algorithms for advanced ECG applications.

The MAC 5500 system offers a comprehensive suite of ECG interpretation and clinically validated analysis programs. Its array of arrhythmia and chest pain tools allow you to address a wider range of disease management needs. Make more efficient treatment decisions. And use invasive tests more judiciously.

Our Marquette[®] ECG analysis programs are the preferred choice in a variety of care settings and industries, including hospitals, clinics, physician offices and clinical research organizations (CROs).

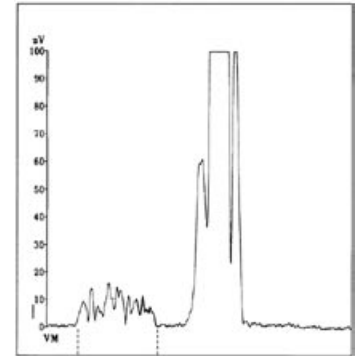
- **Marquette 12SL[™] ECG analysis program** for adults and pediatrics – the industry's most thoroughly documented, simultaneous 12-lead ECG acquisition analysis program for uncompromising quality and reliability – remains your most clinically valuable second opinion.
- **Marquette 12SL with Gender-Specific** interpretation features criteria that help you more easily detect acute myocardial infarction (MI) in female patients, enhancing diagnostic confidence even among occasional readers of ECGs.
- **Simultaneous 15-lead acquisition, storage, and assessment** provides additional ST measurements for the detection of changes that occur in some non-diagnostic 12-lead cases to facilitate the prompt detection of right ventricular and posterior MI.



Gender-Specific Criteria Enhancement

Utilizing unique clinically correlated criteria for evaluating the ST segment and T-wave for the ECG waveform, GE 12SL Gender-Specific interpretive software assists clinicians in detecting acute MIs in female patients and enhances diagnostic confidence among even occasional ECG readers.

- **Marquette 12SL with ACI-TIPI** (Acute Cardiac Ischemia Time-Insensitive Predictive Instrument) considers a patient's age, gender, and chief complaint, as well as ECG measurements, to generate a numerical score that helps predict the probability of acute cardiac ischemia. This optional program provides important additional triage information for patients with chest pain.
- **P-Wave Signal Averaging** option for atrial arrhythmia assessment features a patented templating algorithm that enhances P-wave measurement accuracy.
- **Hi-Res Late Potential Analysis** option supports effective ventricular arrhythmia assessment, with an intuitive design that creates a practical, non-invasive alternative to involved invasive testing.
- **Enhanced Pacemaker-Detection Software** improves sensitivity to electronically paced hearts.
- **Vectorcardiography**
- **Marquette Hookup Advisor™** signal quality analysis program reviews and measures ECG waveforms for signs of artifact and interference, helping to eliminate poor waveform quality during the recording of ECGs.
- **Serial ECG Comparisons**, through the MUSE cardiology information system, leverages the Marquette 12SL ECG analysis program and analyzes both short- and long-term changes in patients' ECGs.



The signal-averaged high-resolution P wave (PHi-Res) analysis performs signal averaging of P waves using a P wave trigger and provides filtering and delineation of the averaged P-wave.



Marquette Hookup Advisor™ signal quality analysis program

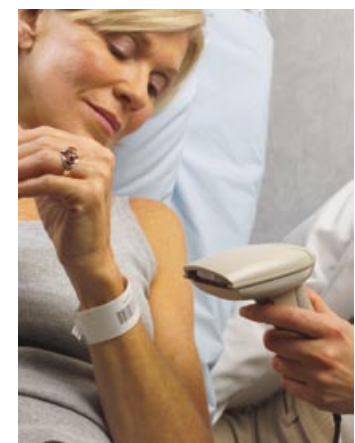
Innovative features streamline workflow and expand your capabilities.

Specifically designed to enhance your entire staff's efficiency, the MAC 5500 system combines technological advances with ease-of-use features in one system.

- Digital CAM-14 module reduces noise and artifact for clearer ECG tracings.
- Large field-of-view display provides a clear view of the screen from any angle.
- Analog ECG output facilitates easy integration with other cardiac-diagnostic devices, such as echocardiography and nuclear medicine systems.
- Extensive customization – including display and final-report formatting – accommodates individual user preferences.
- Stress option incorporates leading exercise-testing technologies. Signal-acquisition advances help reduce baseline wander and ST-segment distortion to generate clearer, more defined ECGs.
- Barcode and magnetic card reader options help reduce errors by automating the input of patient data.
- Security protocols and user-configurable password protection provides security to assist you in addressing HIPAA requirements.
- Trolley design features a convenient holder for the acquisition module, ample writing surface area, wide bins, and a covered storage compartment.
- Compact system design offers easy mobility.



Digital CAM-14 module



Barcode and magnetic card reader

Taking ECG workflow to the next level.

Full connectivity allows you to tap into the power of GE's cardiology information system MUSE – for streamlined workflow and higher functionality. Networked access delivers improved efficiency and decision support.

- Access the computer ECG patient records immediately, any time of day or night, using the Remote Query option for more responsive patient care.
- Optional Ethernet and MobileLink™ wireless capabilities permit bi-directional communication with the MUSE system. You can quickly retrieve, manage, and archive patient data – and reduce the potential for errors. Also helps meet ACC/AHA guidelines for time-to-cardiologist overread and time-to-treatment goals.
- Instantly access procedure requests and download patient demographic data from the Hospital Information System through the MUSE system. This functionality reduces time-consuming patient data entry and minimizes delays in procedure billing.
- Access ECG records from the clinic, office, or other remote facility using a standard modem for maximum decision-making efficiency.
- Secure digital memory card facilitates external archive capabilities and easy updating.
- Export and archive data in XML format for flexible, open communications.



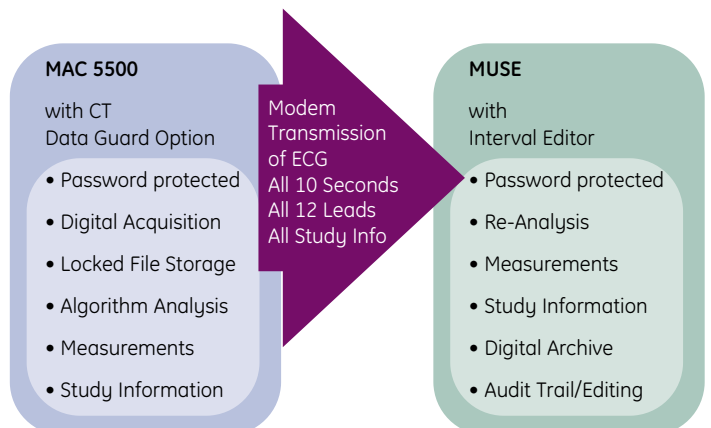
MAC 5500 for CRO requirements

- **4 user-definable fields** for patient data entry flexibility.
- **Optional CT (Clinical Trial) data guard feature** is designed to help guarantee the integrity of the digital ECG record, support of 21 CFR Part 11 compliant workflow, enhance security and protect electronic records.

Easier regulatory compliance

Requiring minimal policies and procedures to meet compliance, MAC 5500 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



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20-Sep-2007



Patient Data

Leads

25 mm/s

10 mm/mV

150 Hz

More

72 BPM



12 Ld



15 Ld

Power



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

Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest.

Re-think, Re-discover, Re-invent, Re-imagine.

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GE imagination at work