

Delivering expanded ECG expertise at critical moments

MAC 5500 HD ECG
Analysis System



Getting more from every ECG. It's critical.

In the critical moments of a patient's cardiac event, outcomes hinge on fast, accurate, complete ECG data. And from this moment on, you can expect more from every ECG.

The MAC[®] 5500 HD represents a new definition of ECG speed and accuracy. With more accurate pacemaker detection. The proven power of Marquette[®] 12SL™ analysis. And the tools to streamline the entire process.

The MAC 5500 HD also meets the need for productivity across the enterprise, by empowering a wide range of users to precisely capture, analyze, and communicate ECG data. Ensuring the right data goes with the right patient, speeding time to treatment, and reducing demographic and billing errors.

Sophisticated tools. Easy to use. From patient triage through every step of care, the MAC 5500 HD enables clinicians to focus on what's most important: their patients.

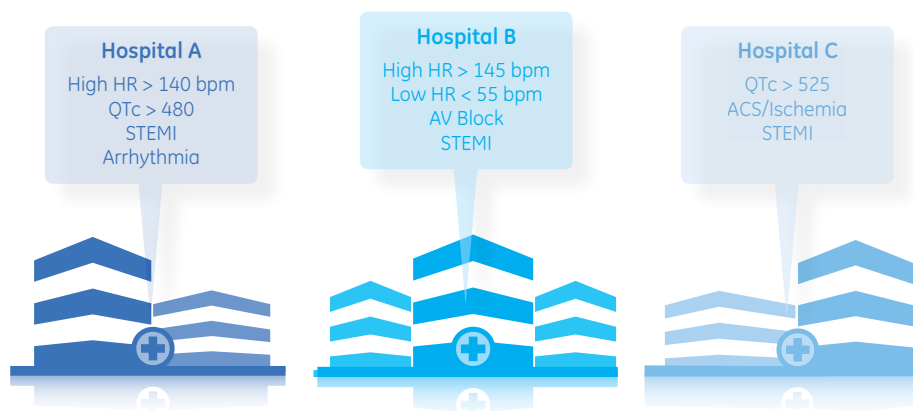


Configurable critical values: Defined by you. Delivered by the MAC 5500 HD.

Clinicians perform many ECGs every day. Quickly identifying those that need immediate attention can help improve outcomes when moments count. The MAC 5500 HD gives you configurable critical values that help streamline ECG review and speed time to treatment for the patients who need it most.

Configurable critical values help your hospital to:

- **Speed triage and treatment** with on-screen and printed notifications.
- **Streamline workflow** by reducing time-consuming manual identification of critical values.
- **Consistently report** critical conditions to help support patient safety goals.



The MAC 5500 HD gives you the power to customize, so you can configure critical values to help meet the goals of your facility and The Joint Commission reporting requirements.

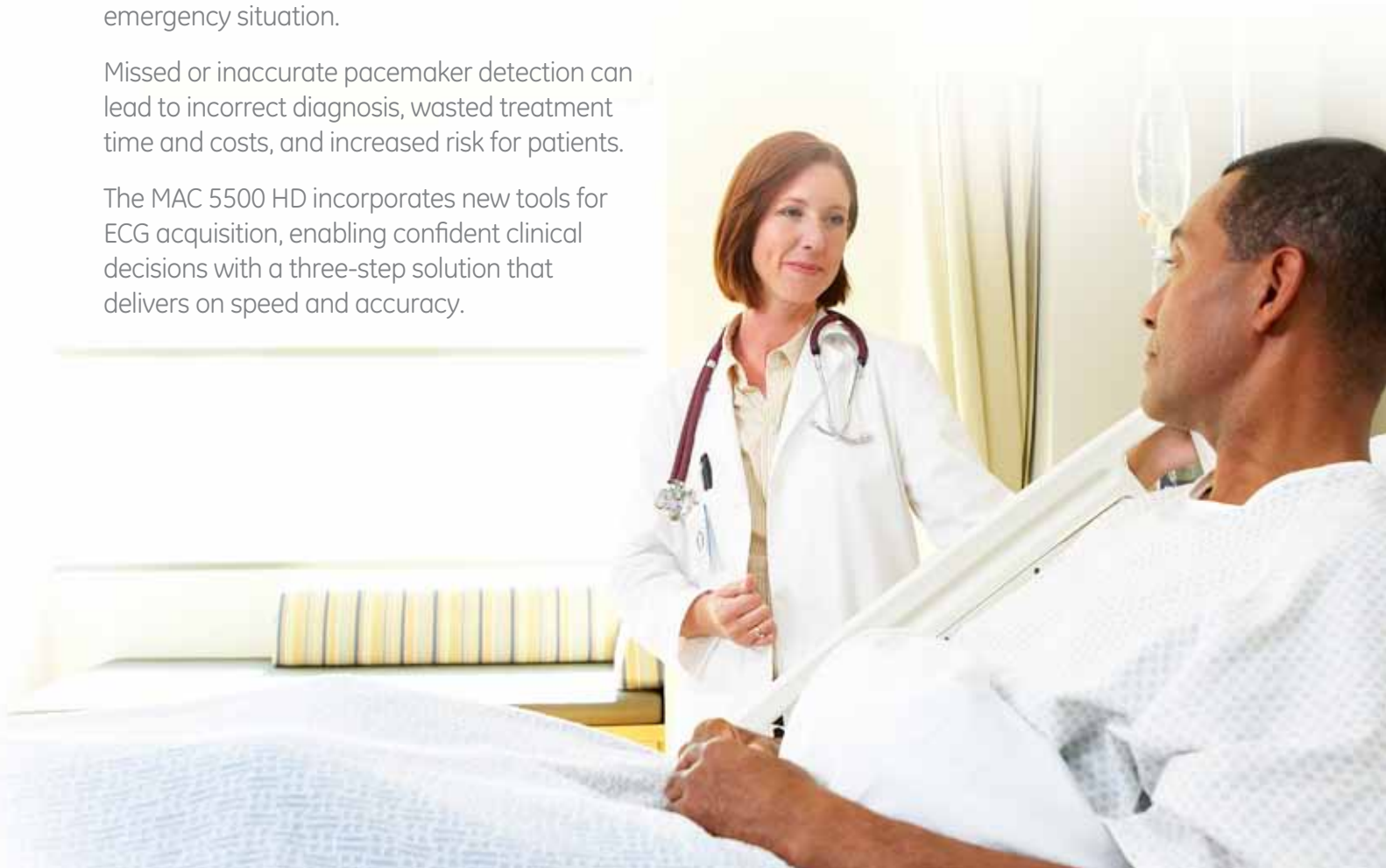
More than keeping pace. Moving ahead.

If you can't see the pacemaker, you're not seeing the whole patient

During a patient's cardiac event, physicians have moments to make a diagnosis. Modern pacemakers are difficult to detect in standard ECGs, and inferring their presence takes time many clinicians simply don't have in an emergency situation.

Missed or inaccurate pacemaker detection can lead to incorrect diagnosis, wasted treatment time and costs, and increased risk for patients.

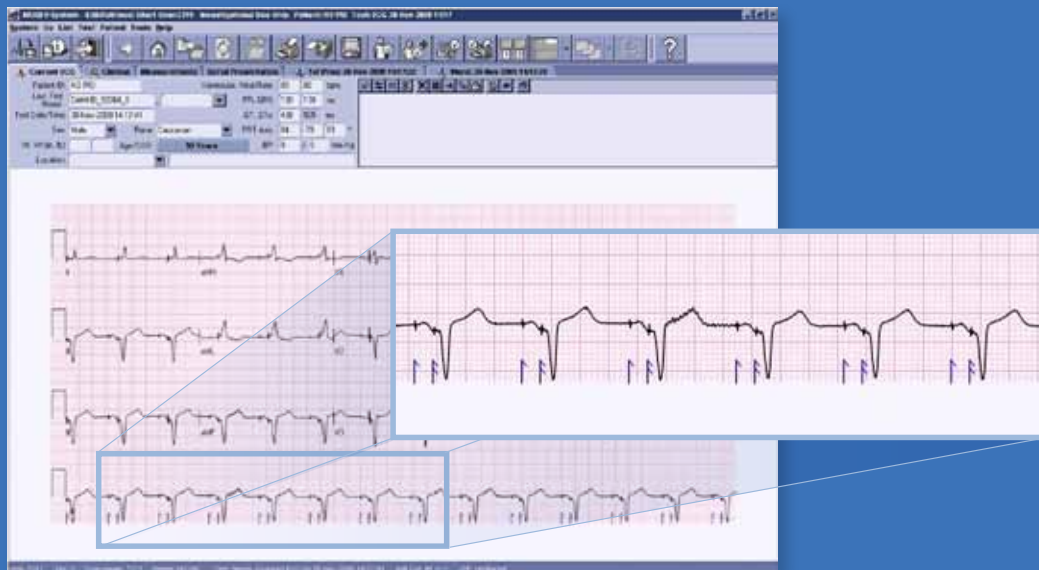
The MAC 5500 HD incorporates new tools for ECG acquisition, enabling confident clinical decisions with a three-step solution that delivers on speed and accuracy.



Advancing clinical excellence in three steps

The MAC 5500 HD combines proven 12SL analysis with technology advancements to provide one of the most advanced ECG pacemaker detection systems available.

- **Detect pacemaker pulses more accurately**¹ via a high sample rate, reducing the risk of treatment contraindicated for paced patients. The sample rate of 75,000 samples per second to detect pacemaker pulses as faint as 0.2 ms in duration and 0.5-mV in amplitude.
- **Advanced interpretation of paced rhythms** via the Marquette 12SL program provides analysis for detecting bi-ventricular pacemakers, identifying the underlying rhythm, as well as the chamber(s) being paced. This increases the breadth of the system's decision-support capabilities.
- **Clear visualization and annotation of pacer pulses** through MUSE® v8 Cardiology Information System, which provides a dedicated pace-annotation channel. This helps to reduce the need to identify pacer pulses within the ECG signal, supporting efficient diagnosis when moments can make a difference.



The tools you need. The results you trust.

Better triage enables better outcomes: acute coronary syndrome algorithm

Acute coronary syndrome (ACS) is a major cause of emergency medical care visits. The ability to quickly and accurately triage patients can be a matter of life or death.

The MAC 5500 HD includes new 12SL algorithm enhancements that have been shown to help physicians identify ACS. A study has shown these enhancements:

- Improved the sensitivity of emergency physicians' interpretation of acute myocardial infarction by 50% and cardiologists' interpretations by 26%, with no loss of specificity.²
- Improved the sensitivity of emergency physicians' acute ischemic syndrome interpretation by 53% while maintaining a specificity of 91%.²



Supporting clinical accuracy from acquisition to diagnosis

The MAC 5500 HD offers a comprehensive suite of ECG interpretation and analysis programs, including an array of applications for arrhythmia and chest pain.

These tools help physicians address a wider range of disease management needs, make more efficient treatment decisions, and use invasive tests more judiciously.

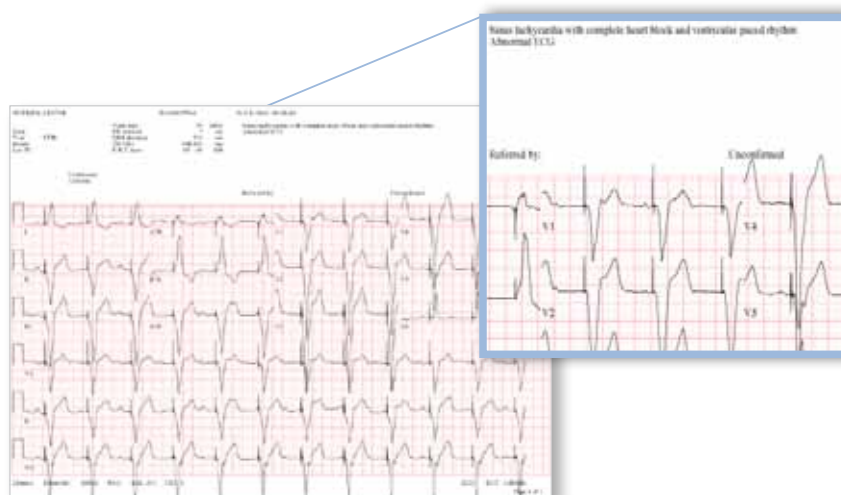
- **Marquette 12SL algorithms:** A preferred choice of physicians worldwide. Includes gender-specific interpretation and ACI-TIPI.
- **12- and 15-lead ECG acquisition:** Facilitates assessment of both adult and pediatric patients—with confidence.
- **HookUp Advisor™:** Indicates lead signal quality, helping to ensure the best possible ECG signal is used.



HookUp Advisor

The difference is clear: the CAM HD acquisition module

Clear data is better data. The CAM HD acquisition module reduces noise and artifact for clearer ECG tracings. This enhanced clarity improves the system's ability to accurately detect the presence of pacemaker pulses and can decrease the need to redo ECGs due to poor data quality.





Powerful connections. At every step.

Your links to accuracy and speed

Access to all of the features of the MAC 5500 HD is made possible through tools and capabilities that build connectivity into every step of ECG acquisition, analysis, and transmission.

- **Bar code and magnetic card readers** automate the download of orders or ADT demographic data, helping reduce patient data entry time and errors.
- **MobileLink™ wireless capabilities** facilitate bi-directional communication with MUSE to retrieve, manage, and archive patients' data, streamlining workflow.
- **Secure digital memory card** provides external archive capabilities and export options.
- **Increased transmission speed** of ECG records into MUSE for faster workflow.

Connected ECG workflow: saving time when seconds count

The MAC 5500 HD lets you harness the power of the GE Healthcare MUSE v8—one of the industry's leading cardiology management systems—for streamlined workflow and greater functionality. Enhanced bar code workflow with orders and ADT download capability work together to help improve efficiency across the enterprise.

It's a system designed to help avoid costly misdiagnoses, automate processes for clinicians, and streamline workflow supporting improved quality of care and reduced cost for the hospital.



We stand behind you. So you can stay in the lead.

New capabilities, familiar features, advanced training

The MAC 5500 HD system brings you improved functionality and clinical workflow while maintaining the familiar look and ease of use you expect from a GE Healthcare ECG system. And our training programs ensure that you get the most from your ECG equipment investment while supporting the ongoing education of your clinicians.

GE Healthcare offers a variety of ways to support your initial and ongoing training needs:

- **Train your way, at your own pace** with self-paced computer-based training or on-site training at your facility.
- **Consistent staff knowledge** is fostered by providing the same high-quality training to all staff members.
- **CEU credits** awarded through GE's computer-based training help support the professional development of physicians and clinicians (U.S. only).



¹Ricke AD, Swiryn S, Bauernfeind RA, Conner JA, Young B, Rowlandson GI. Improved pacemaker pulse detection: clinical evaluation of a new high-bandwidth electrocardiographic system. *J Electrocardiol.* 2010. Co-authored in part by GE Healthcare employees.

²Xue J, Aufderheide T, Scott Wright R, et al. Added value of new acute coronary syndrome computer algorithm for interpretation of prehospital electrocardiograms. *J Electrocardiol.* 2004;37 Suppl:233-239. Co-authored in part by GE Healthcare employees.

About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services helps our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at www.gehealthcare.com.

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imagination at work

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