GE HealthCare

# MAC™ 5 Resting ECG

Streamline your ECG workflow.
Simple. Precise. Secure.

# High quality ECGs, without added complexity

## More ECGs. More care locations. Less time.

Resting ECGs are performed across departments by users with different levels of experience. Teams need a consistent way to capture accurate data, complete exams quickly and move results into the patient record — without creating extra work for clinicians or IT.

### 43-51% untrained

Lack of dedicated ECG training raises the risk of errors and misreads.[1]

### 0.4-4% lead reversals

Mistaken placement may trigger false alarms or cause missed diagnoses.[2]

### Privacy concerns

Insecure transmission methods make practices vulnerable to compliance and regulatory issues.

# Simple.
# Precise.
# Secure.

As teams face high staff turnover, increasing volumes of ECG data and privacy concerns, they need an ECG solution that helps streamline workflows and supports high quality care across locations.

MAC 5 is designed for busy care environments. It guides users through acquisition, supports consistent high-quality ECGs and helps protect patient data.

## Simple

Easily capture accurate high quality ECGs across locations, reducing repeats and misdiagnosis. Share data fast and efficiently with flexible standards-based data exchange that supports your workflows.

## Precise

Make confident clinical decisions with the help of real-time acquisition tools and trusted 12SL™ analysis programs built into every ECG.

## Secure

Protect patient data and keep your devices compliant and running smoothly with the help of role-based access, encryption, secure connections and proactive security updates..

95%

of the “Best Hospitals for Cardiology, Heart and Vascular Surgery” use the MAC solution[10]

# Simple — a clear path from acquisition to high quality ECGs

## Efficient, accurate ECGs — in just a few taps.

MAC 5 helps users — regardless of experience — capture high-quality ECGs quickly and consistently. Real-time quality feedback, lead-placement alerts and automated acquisition help users capture a clean, high-quality ECG with fewer steps. Results can then be reviewed, printed or securely transmitted for access across departments.

### Minimize mix-ups

Automatically detect a newly connected patient with Smart Lead technology.

### Reduce variability

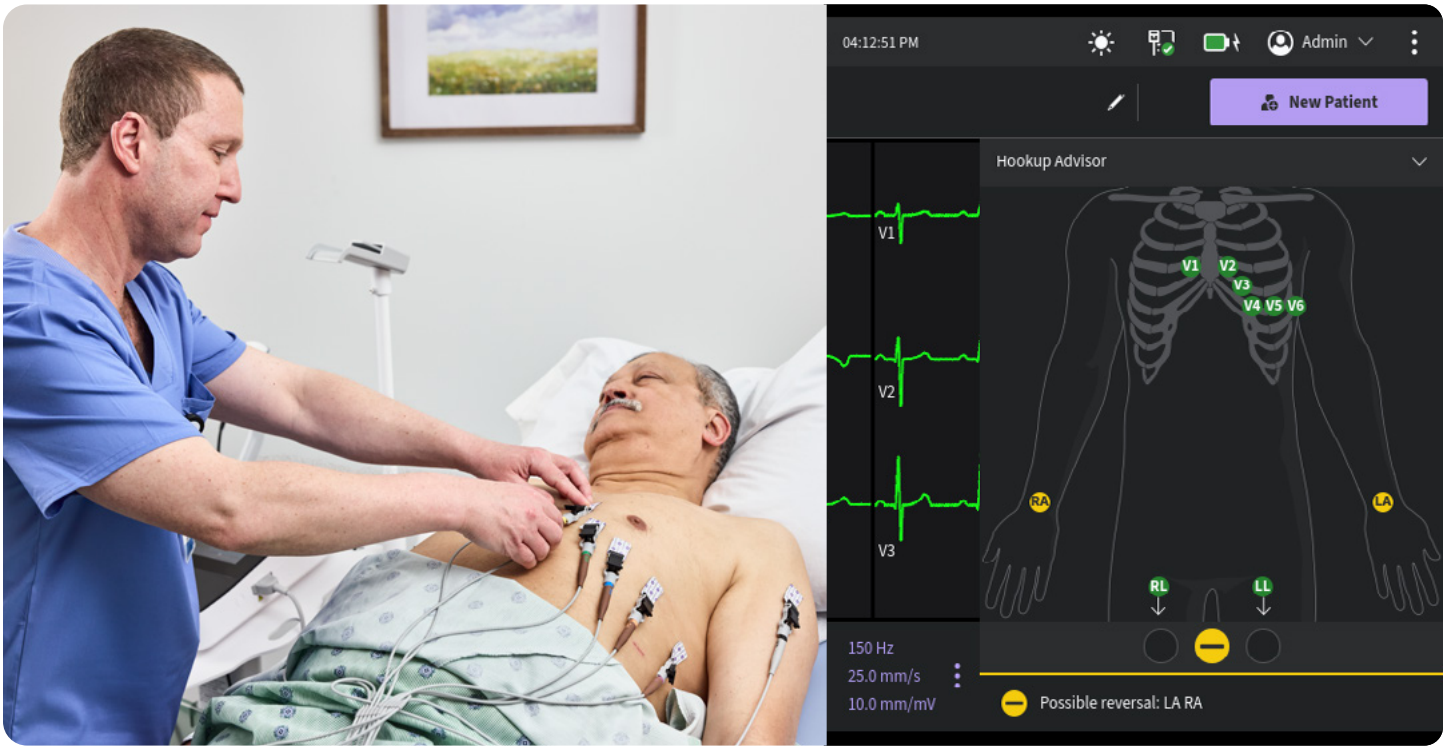
Capture clean, high-quality waveforms quickly — even with minimal trainings, with Hookup Advisor™ which provides real-time acquisition guidance.

### Help prevent misdiagnosis[7]

Ensures correct electrode placement by providing on-screen alerts when a reversal is suspected. Using the 12SL algorithm, the system identifies 19 possible electrode reversals before acquisition.

### Lower number of repeats

Auto-ECG algorithm automatically captures and displays the first clean, high-quality ECG.[2]




**85%** of ECG users agree that they need minimal training.[4]

# Simple — connection options designed to support your workflow

## Send the results anywhere online, quickly and securely.

MAC 5 supports multiple paths for moving orders, demographics and ECG results. Choose the workflow that fits your infrastructure.

### Bi-directional clinical system integration[3]

Use MUSE™ HL7, MUSE DICOM® Connect, DICOM Gateway Pro[5], or EMR Gateway Pro[5] to exchange ADT, orders, and ECG results with HIS/EHR/RIS/PACS systems.

### Direct and file based exchange

Optional DICOM Direct queries and downloads modality worklists and sends DICOM ECG data directly to RIS/PACS without intermediary software. PDF/XML files can be sent to a shared folder or SFTP destination.

### Additional workflow options

CardioSoft™ supports central storage and remote review, editing and printing. Network printing supports rhythm, Full Disclosure and ECG reports.

# Simple — compact, mobile and configurable

**MAC 5 is designed to move with your workflow helping drive productivity across care areas.**

## Easy-clean design

Keep your devices clean with smooth flat surfaces.

## Configurable to meet your workflow needs

Use MAC 5 with or without a printer.[6]

## Portable by design

Easily move between locations with a trolley or compact, lightweight system with an integrated handle.

# Precise

## Provides exceptional clinically validated decision support.

Accurate interpretations are essential for timely, confident patient care. The trusted 12SL algorithm, is an advanced clinical decision support tool that turns ECG data into actionable insights.[7]

### Full disclosure

Accelerate reading and review with a condensed full disclosure rhythm report capable of reducing thirty pages to three.

### Critical value notification

Immediately flags high-risk findings on the ECG report when configured thresholds are met, helping clinicians prioritize urgent cases.

### Bi-ventricular pacing detection

Automatically detects even small signals to ensure consistent labeling and reduce rhythm interpretation errors[7] (pacing goes undetected in roughly 10% of ECGs[8]).

### Zero Phase Distortion (ZPD)

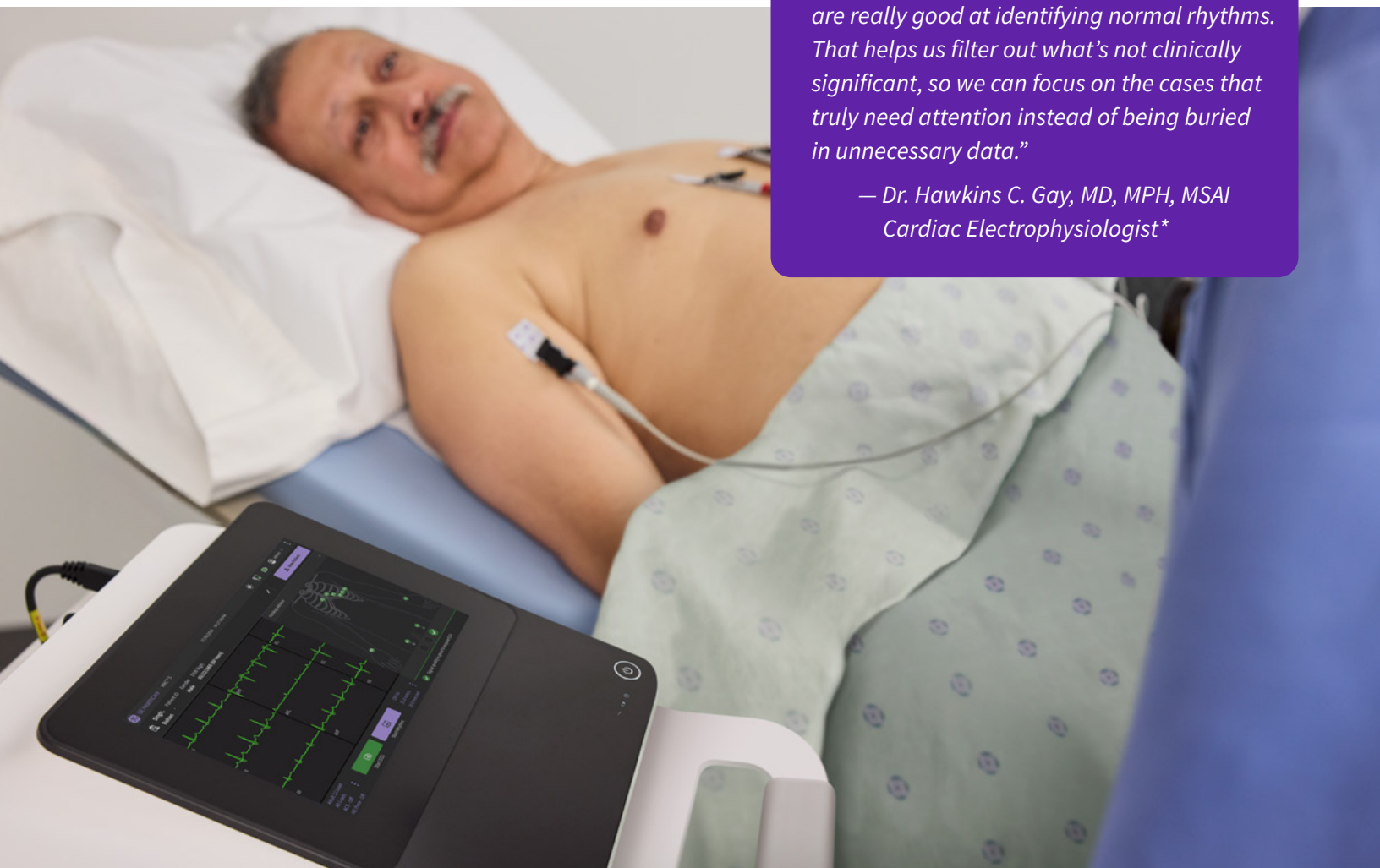
Ensures consistent ST-segment interpretation across both 12-lead and rhythm ECGs.

### LVH recognition

Aligns with guidelines to identify key criteria and flags which criteria are positive, improving diagnostic clarity.[9]

*"The algorithms on a lot of these devices now are really good at identifying normal rhythms. That helps us filter out what's not clinically significant, so we can focus on the cases that truly need attention instead of being buried in unnecessary data."*

*— Dr. Hawkins C. Gay, MD, MPH, MSAI*
*Cardiac Electrophysiologist**



# Secure

## So your data can stay protected.

In today's hyper-connected data environment, patient privacy and data protection are top of mind for clinicians and IT professionals. The MAC 5 was developed with a comprehensive approach to medical device cybersecurity, to protect patient data, your users, and your institution.

### Minimize vulnerabilities

Securely update firmware and software via e-delivery, allowing you to efficiently maintain total control over the update process.

### Control access

Role-based LDAP user authentication, patient data encryption and secure network connections help ensure MAC 5 interacts only with authorized people and systems.

### Stay on top of emerging threats

A strong central security team is consistently developing additional security patches to address vulnerabilities as needed.

# GE HealthCare Diagnostic Cardiology accessories and consumables

## Easily connect with your equipment for accurate measurements.

GE HealthCare's high-quality ECG cables, leadwires, and accessories help you get the accurate measurements needed to properly assess patient heart function. Accurately measure and ensure high-quality performance from your CASE™, MAC, and SEER™ devices

**Durable:** Our ECG cables, leadwires, and accessories are easy to clean and can withstand bending and twisting to enhance patient comfort.

**Reliable:** Strict testing ensures quality, reliability and safety — delivering optimum performance and helping to achieve a high standard of care.

**Convenient:** Cables, leadwires, and banana adaptors help reduce errors — saving time for the clinician to focus on patient care.

# Easy serviceability

## To keep your devices optimized for care

Minimizing disruption of patient care while maintaining and troubleshooting medical devices is a constant challenge. MAC 5 takes a proactive approach to help streamline your workflows and improve operational efficiencies.

**On-board status and diagnostics** of device components and parts for easy assessment.

**Designed to maximize uptime** with easy access to critical parts needing repair or replacement.

**Service offerings and training** tailored to your needs.

**Enhanced cleaning flexibility** and smooth-flat surfaces for infection control management.

*"My job is to select an ECG system that is clinically robust so we can standardize it across all of our facilities. These systems also need to be ready all the time, meaning they need to be reliable yet designed with service in mind."*

*— ECG Tech*

## About GE HealthCare Technologies Inc.

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics and digital solutions innovator, dedicated to providing integrated solutions, services and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise and patients healthier and happier. Serving patients and providers for more than 125 years, GE HealthCare is advancing personalized, connected and compassionate care, while simplifying the patient's journey across the care pathway.

Together our Imaging, Ultrasound, Patient Care Solutions and Pharmaceutical Diagnostics businesses help improve patient care from diagnosis, to therapy, to monitoring. We are a $19.6 billion business with approximately 51,000 colleagues working to create a world where healthcare has no limits. Follow us on LinkedIn, X (formerly Twitter) and Insights for the latest news, or visit our website gehealthcare.com for more information.

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## Our augmented reality experience allows you to explore key features and see how easily MAC ECG products can fit into your existing office or hospital environment.

MAC 5 (A5)

MAC 5 (A4)

MAC 5 (Lite)

Point your camera at the QR code. Tap the banner that appears on your screen.

**Learn more** about MAC 5 at https://www.gehealthcare.com/en-us/products/diagnostic-ecg/resting-ecg/mac-5-resting-ecg

*Dr. Gay is a paid consultant for GE HealthCare and was compensated for participation in the interview. The statements by Dr. Gay described here are based on his own opinions and on results that were achieved in his unique setting. Since there is no "typical" hospital/clinical setting and many variables exist, i.e. hospital size, case mix, staff expertise, etc., there can be no guarantee that others will achieve the same results.


1. Kashou AH, Noseworthy PA, Beckman TJ, Anavekar NS, Cullen MS, Angstman KB, et al. EDUCATE: An international, randomized controlled trial for teaching electrocardiography Curr Probl Cardiol. 2024;49, 102409.
2. Littmann L. JAMA Internal Medicine. 2018;178(3):435. doi:10.1001/jamainternmed.2017.8636
3. Double-blind study by an independent third party research firm, Healthcare Research & Analytics (HRA) at Smith Research Facility, Chicago.
4. Optional feature, not available in all regions.
5. May require a gateway.
6. Configuration availability depends on region.
7. For more details please refer to the GE 12SL statement of validation and accuracy
8. Ricke, A.D., et al., Improved pacemaker pulse detection: clinical evaluation of a new high-bandwidth electrocardiographic system. J Electrocardiol, 2011. 44(2): p. 265–74.)
9. Okin, P.M., et al., Combining ECG Criteria for Left Ventricular Hypertrophy Improves Risk Prediction in Patients with Hypertension. Journal of the American Heart Association, 2017. 6(11).
10. "Best Hospitals for Cardiology, Heart & Vascular Surgery", U.S. News and World Report. 2024 Best Hospitals for Cardiology, Heart & Vascular Surgery (usnews.com) Access September 2024.


Not all products or features are available in all markets.


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JB28000XX | August 2026


GE HealthCare