



The **GE MAC 5500 HD** Resting ECG System is a premier ECG machine that delivers advanced disease management capabilities through one of the industry-leading collections of algorithms and advanced networking. The MAC 5500 HD precisely captures, analyzes, and communicates ECG data. Sophisticated tools built on an easy-to-use design and platform enables clinicians to focus on what's most important: their patients.

Features

- Better triaging tools for Acute Coronary Syndrome (ACS) detection.
- Configurable Critical Values to help speed time to treatment.
- More accurate pacemaker detection for advanced interpretation of paced rhythms.
- Enhanced barcode workflow, with orders and ADT download capability, work together to help improve efficiency across the enterprise.
- Connected ECG Workflow to help save time and avoid costly misdiagnoses.
- Advanced algorithms in ECG analysis and interpretation.



Specifications

Dimensions (Console)

Height: 3.7" (9.4 cm) (With display closed)
Width: 15" (38.1 cm)
Depth: 13.8" (35.1 cm)
Weight: 15 lbs (6.8 kg)

Dimensions (Cart)

Height: 37" (94 cm)
Width: 19" (47 cm)
Depth: 27" (69 cm)
Weight: 66 lbs (30 kg)

Display

Type: 10.4 in (264 mm) diagonal graphics backlit color AM LCD
Display Resolution: 640 x 480 pixels with waveform enhancement
Display Data: Heart rate, patient name, ID, clock, waveforms, lead labels, speed, gain and filter settings, warning messages, prompts, and help messages

Keyboard

Type: Sealed elastomer with soft function keys, alphanumeric keys, writer controls, and TrimPad cursor controls

Power

Power Supply: AC or battery operation
Voltage: 100 to 240 VAC
Current: 0.5A @ 115 VAC, 0.3A @ 240 VAC, typical, 0.85A max
Frequency: 50 to 60 Hz
Battery Type: User replaceable, 18V @ 3.5 AH \pm 10% rechargeable NiMH
Battery Capacity: 100 single page reports, (typical) or six hours continuous display (without printing)
Battery Charge Time: Approximately 4.5 hours from total discharge (with display off)

Environmental Operating Conditions

Temperature Range: 50° to 104° F (10° to 40° C)
Relative Humidity: 20% to 95% RH non-condensing
Atmospheric Pressure: 5700 to 1060 hPA

Environmental Storage Conditions

Temperature Range: -40° to 158° F (-40° to 70° C)
Relative Humidity: 15% to 95% RH non-condensing
Atmospheric Pressure: 500 to 1060 hPA

Magnetic Card Reader

Character Set: ANSI/ISO ALPHA alphanumeric characters and ANSI/ISO BCD (subset of ASCII [ISO 646 IRV:1991])



Specifications

Bar Code Scanner

Symbologies: Code 39 (extended), PDF-417, Code 128, Data Matrix, Interleaved 2 of 5

Processing

ECG Interpretation: Marquette* 12SL* ECG Analysis Program for Adults and Pediatrics

Computerized Measurements: 15-lead analysis includes measurements of user-selectable additional 3 leads

Optional: Hi-Res Late Potential Analysis and P-Wave Signal – Averaged ECG

Additional ECG Function: Vectorcardiography

ECG Analysis Frequency: 500 samples/second (sps)

ECG Storage: 200 ECGs in internal memory

External Archiving: Secure Digital card

Digital Sampling Rate: 16,000 samples/second/channel

Pre-Acquisition: Provides 10 seconds of instantaneous ECG acquisition

Dynamic Range: AC Differential ± 5 mV, DC offset ± 300 mV

Resolution: 4.88 μ V/LSB @ 250 sps, 4.88 μ V/LSB @ 500 sps

Frequency Response: -3 dB @ 0.01 to 150 Hz

Common Mode Rejection: >140 dB (123 dB with AC filter disabled)

Input Impedance: >10M Ω @ 10 Hz, defibrillator protected

Patient Leakage: <10 μ A

Pace Detection: Meets or exceeds ANSI/AAMI EC11-1991 standards

Pace Digital Sampling Rate: 75,000 samples / second / channel

Pace Pulse Width: as low as 0.2 ms in duration

Pace Pulse Amplitude: as low as 0.5 mV in amplitude

Special Acquisition Functions: Disconnected lead detection, electrode impedance, excessive AC noise, baseline wander, and muscle tremor messages

Heart Rate Meter: 30 to 300 BPM $\pm 10\%$ or 5 BPM, whichever is greater. Heart rates outside this range will not be displayed

Writer

Writer Technology: Thermal dot array

Writer Speeds: 5, 12.5, 25, and 50 mm/s

Number of Traces: 3, 6, 12, or 15 user selectable

Writer Sensitivity/Gain: 2.5, 5, 10, 20, 10/5 (split calibration) mm/mV

Writer Resolution: Horizontal 1000 dpi @ 25 mm/s, 200 dpi vertical

Paper Type: Thermal, Z-fold, perforated, fan fold, 300 sheets/pack

Paper Size: A Size: 8.5 in x 11 in, (214.6 mm x 280 mm)

A4 Size: 8.27 in x 11.7 in (210 mm x 297.5 mm)

