

# CardioSoft<sup>®</sup> **Cardiac Testing System**



## Signal processing

ST amplitudes, slope, integral, index, ST measurements ST/HR slope, ST/HR loops, ST/HR - Stress E, J and Manual or computer selected post-J point

Signal processing Incremental median updating using technique **HEART** Exercise program

Artifact/Baseline ADS or Finite Residual Filter correction (FRF) algorithm

**ORS** detection Based on automatic or manual and analysis lead selection

Arrhythmia Automatic arrhythmia detection, detection documentation and annotation Full disclosure ECG Up to 60 minutes of full disclosure

> with event review both during and post acquisition

Reanalysis – Stress Post-test median measurements from

E, J, post-J point selections

ECG analysis Marquette<sup>™</sup> 12SL ECG Analysis

Program for Adult and Pediatric

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

Additional ECG Vectorcardiography function

Heart Rate Meter 30 to 300 BPM ±10% or 5 BPM, whichever is greater. Heart rates

outside this range will not be displayed.

# Communications/storage

ECG data formats MUSE™

GE Hi-Fidelity ECG, XML

MUSE Cardiology Information System Compatible (v7 or later) with

bi-directional orders and ADT support

MUSF Web Compatible for retrieval view and printing of MUSE system data

Data export PDF export of final reports (auto export

and custom file name): PDF export of Full Disclosure data: Microsoft® Word export of configured reports; XML or Microsoft Excel® export of specified data

EMR connectivity Integrated with Centricity Practice

> Solution (CPS) EMR; Other EMRs through MUSE Cardiology Information System (v8 or later); or GDT/BDT Interface

DICOM Bidirectional, DICOM modality

worklist/orders

## Data acquisition (via CAM Connect 14)

Technology Type CF, Defibrillation-Proof Defibrillation protection: Per IEC 60601-2-25:2011

Lead System 15 lead

AC Differential ± 5mV, DC offset ±300 mV Dynamic Range Common Mode >130 dB (>100 dB with AC filter disabled)

Rejection

Input Impedance  $>10M\Omega$  @ 10 Hz, defibrillator protected

Patient Leakage

**Quality Indicators** Real-time electrode placement support

with LED lead quality indicators

Remote control ECG acquisition button

**Ingress Protection** IP×4

Level

High pass filter 0.04

Additional report

filters

20, 40, 100, 150 Hz (selectable)

Line filter 50.0 or 60.0 Hz notch filter (selectable)

QRS trigger TTL synchronization output

#### Wireless data acquisition (via GEH ECG 1200) TTL Trigger delay <11ms (delay from R-wave) Interface USB 2.0 compliant **Acquisition unit** Communication USB 2.0 Full Speed Lead system Standard 12 Lead Digital RF, 2400-2483.5 MHz, 0.4 mW, conform to FCC part 15.249 Patient Leads Detachable 10 Lead wires conform to AAMI Power: USB 5V 100mA max at 5V input Defibrillation Protected against 360J discharge Display type protection Monitored leads 12, 15 - Resting: 3, 6, 12, 15 - Stress Patient leakage < 10 uA Displayed leads Number on screen 3, 6, 12 or 15 current Display format $4 \times 2.5$ , $4 \times 2.5 + 1$ rhythm, $2 \times 6$ , Input impedance > 10 MOhm 6 rhythm, 3 rhythm - Resting **CMMR** > 90dB $4 \times 2.5 + 1$ rhythm, $2 \times 6$ , 6 rhythm, 3 rhythm, 3 rhythm + medians, 0.05 - 150Hz Frequency range 3 rhythm + trend - Stress Dynamic range +/-2.4VDisplay speeds 25, 50 mm/s Resolution 24 bits (0.286 uV/LSB) 2.5, 5, 10, 20, 40 mm/mV - Resting Display Sample Rate 8000 sensitivity/gain 2.5, 5, 10, 20 mm/mV - Stress Internal **Computer specifications** 500 Sample Rate Minimum Pentium® 4 class processor Microprocessor Recording with 2 GHz Lead OFF Yes RAM Minimum 2 GB Detection Hard drive Minimum 80 GB and 4 GB of free space Communication Digital RF 2400 - 2483 MHz, if used as a standalone system 0.4mW, conform to FCC Part 15.249 Size AA × 2, Alkaline or NiMH SW installation DVD-ROM drive or USB Battery Pointer Up to 40 hours with Alkaline Batteries Mouse **Operation Time** Display resolution Minimum: 1280 × 768 Weight [g]: 350 Dimensions and Maximum: 3840 x 2160 Size [mm]: 140 x 95 x 50 weight Interfaces Minimum: 2 USB ports (1.1, 2.0, or 3.0) for Classification Type-CF, Internally powered each device using this type of interface, Pace Detection Sampling rate: 500 sps CD-RW, SD card, network interface card Additional report 20, 40, 100, 150 Hz (selectable) (recommended), Serial RS232 for each filters device using this interface type **Battery Indicator** 0%- 100% (at a gap of 20%) Operating system Windows 10 Enterprise (64 bit) on HOST Windows 10 Professional (64 bit) Receiver Windows 7 Professional (64 bit) with SP1 Windows 8.1 Enterprise (64 bit) ECG Out 0.5 to 150 Hz (Bandwidth-3db) Window 8.1 Pro (64 bit) ECG Out Gain 1000 Additional Microsoft Word and Excel ECG Out Sample 500 software for export (optional, Customer Supplied)

functionality

16-128ms



TTL Trigger width

<sup>1</sup> Marquette 12SL ECG Analysis Program Physician's Guide, 2032056592-002 Revision B. 2015, GE Healthcare: Milwaukee, WI © 2019 General Electric Company – All rights reserved.

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