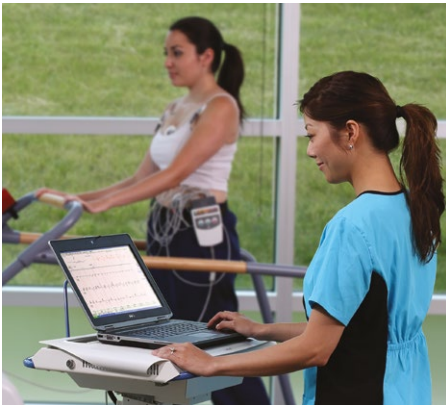




CardioSoft Diagnostic System Exercise Stress Testing ECG application

Clinically connected. Simply smart.



CardioSoft[®] Diagnostic System Exercise Stress Testing ECG application transforms your physician office PC into a stress ECG device. The Cardiac Acquisition Module (CAM-14) with the CAM USB A/T interface is easily connected from the patient to your PC's standard USB port. The CAM-14 provides high-quality ECG presentation for accurate cardiac assessment of your patients. Its outstanding digital signal processing reduces artifact for clearer tracings.

- Patented Exercise Test Interpretation (XTI) algorithm highlights critical values for efficient and timely diagnosis
- Proven Marquette[®] 12SL[®] Resting ECG analysis program and 15-lead stress measurement
- The ST/HR hysteresis analysis feature enables increased accuracy¹ in detecting coronary artery disease in women and adds confidence in identifying the most appropriate treatment
- Finite Residual Filter (FRF) and Cubic Spline provide ECG baseline correction and artifact resolution without sacrificing critical ST measurements
- Automatic Arrhythmia Detection assists in documenting arrhythmias that occur during stress testing
- Export flexibility of your CardioSoft Diagnostic System Stress reports via PDF, XML, Microsoft[™] Word or Excel[™]. The name of the PDF is automatically generated based on patient demographics for accurate assignment of the PDF to the correct patient in an EMR or HIS system. XML export makes nearly all internal values and parameters available for export to third-party applications for research
- Flexible and configurable report options to meet reporting preferences of physicians
- Seamless connectivity with other CASE[®], MUSE[®] Cardiology Information Systems and with EMR⁵ systems for workflow efficiencies
- DICOM formatted stress ECG report generated by CardioSoft Diagnostic System is automatically exported to PACS workstations, making physician over-read fast and efficient while speeding up patient throughput
- Multiple networking options are available (consult CardioSoft Diagnostic System Networking product sheet)

Specifications

Signal processing

ST measurements	ST amplitudes, slope, integral, index, ST/HR slope, ST/HR loops, ST/HR
E, J and post-J point	Manual or computer selected
Signal processing technique	Incremental median updating
Baseline correction	Cubic Spline or Finite Residual Filter (FRF) algorithm
QRS detection and analysis	Based on automatic or manual lead selection
ECG output	Real-time ECG/QRS beep/TTL synchronization output
Heart rate	Automatic arrhythmia detection, documentation and annotation
Full disclosure ECG	Beat-to-beat ECG record and event review
Reanalysis	Post-test medians measurements from E, J, post-J point selections
ECG	(Optional) 12SL adult and pediatric ECG analysis program
Additional ECG function	Vectorcardiography

Technical specifications

Communications/storage

MUSE systems compatible via diskette; network (optional)	
MUSE Web compatible for retrieval view and printing of MUSE system data	
CardioSoft Web compatible for report viewing	
PDF export of final reports (auto export and custom file name)	
Microsoft Word export of configured reports	
XML or Microsoft Excel export of specified data	
EMR connectivity	
DICOM	Bidirectional, DICOM modality worklist

Data acquisition (via CAM-14)

Technology	Active, "Type BF" floating isolated powered 14-channel acquisition module with built-in lead-fail detection and lead prep impedance measurement
Sampling rate	16,000 samples per second, per lead across 15 leads
Dynamic range	320 mV, ± 10 mV signal superimposed on ± 150 mV DC offset
Resolution	4.88 μ V/LSB @ 500 Hz
Noise	<15 μ V peak-to-peak noise over 0.01 to 150 Hz (-3 dB) bandwidth
ECG analysis frequency	500 samples per second
High pass filter	0.01 (or 0.05 Hz, special use) with DC offset control
Low pass filter	20, 40, 100, 150 Hz (selectable)
Line filter	50.0 or 60.0 Hz notch filter (selectable)
Baseline correction	Cubic Spline algorithm
Artifact/baseline correction	FRF or Cubic Spline algorithms
Common mode rejection	Measured: 100 dB, calculated: >140 dB (123 dB with AC filter disabled)
Impedance	>10 M Ohms @ 10 Hz, defibrillator protected
Patient leakage	<10 μ A
Pace detect	Orthogonal LA, LL and V6; 750 μ V @ 50 μ s
TTL sync	CAM USB – AT uses 100-240v AC adapter

Computer specifications

Microprocessor	Minimum Pentium** 4 class processor with 2 GHz
RAM	Minimum 1 GB Windows** 7 Professional (32 bit); 2 GB Windows 7 or Windows 8.1 (64 bit)
Hard drive	Minimum 80 GB and 4 GB of free space if used as a standalone system
SW installation	DVD-ROM drive
Pointer	Mouse
Graphics adapter	Minimum: SVGA 1024 x 768 Recommended: SXGA 1280 x 1024
Interfaces	Minimum: 2 USB ports (1.1, 2.0, or 3.0) for each device using this type of interface, CD-RW, SD card, network interface card (recommended), Serial RS232 for each device using this interface type
Operating system	Windows 7 Professional (32 bit) with SP1 Windows 7 Professional (64 bit) with SP2 Window 8.1 Pro (64 bit) Windows 8.1 Enterprise (64 bit)
Printer	Equivalent to HP** P3015dn (Customer Supplied)
Additional software for export functionality	Microsoft Word and Excel** (optional)
Networking LAN	Wireless: 802.11 G, N (optional) TCP/IP interface

Imagination at work

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¹Svart K, et al. "Exercise electrocardiography detection of coronary artery disease by ST-segment depression/heart rate hysteresis in women: The Finnish Cardiovascular Study," Int J Cardiol (2008), doi:10.1016/j.ijcard.2008.11.038.

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