

# CardioSoft

Multifunctional PC-based diagnostic system



Minimum specifications for customer provided PC hardware	
<b>Minimum PC workstation requirements - data acquisition and clients</b>	
Microprocessor	Pentium ≥ 1.6 GHz
RAM	256 MB
Hard drive	4 GB (depending on number of tests to save), 50 MB of free memory minimum
SW installation	CD-ROM drive
Pointer	Mouse
Graphics adapter	SVGA 1024 x 768
Interfaces	2 serial interfaces (for mouse, ergometer, respiration flow sensor external BP monitor, TONOPORT ambulatory BP monitor). For simultaneous operation of the ergometer and the BP monitor at one interface each, an interface card with separate interrupts (IRQ) must be installed. Set the configured IRQs of the card in the Ports menu in Windows Control Panel; 1 parallel printer interface; 1 USB interface for the acquisition module.
Operating system	Windows 2000 (Service Pack 4 minimum); Windows XP Professional (Service Pack 2 minimum) Windows XP Home Windows XP (Service Pack 2 minimum)
Safety protocol	Tested for compliance with IEC60950, protection class I (laptop or notebook: also protection class II or internally powered device)
Printer	HP Laserjet 2420DN
Networking	LAN Wireless: 802.11G
<b>Minimum server requirements</b>	
Microprocessor	Pentium® ≥ 1.6 GHz
RAM	256 MB
Hard drive	> 40 GB
Operating system	Windows® 2000 Server, Windows 2003 Server
Protocol	TCP/IP
Cabling	Twisted pair



Technical specifications	
<b>Signal processing*</b>	
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
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
<b>Communications/storage*</b>	
MUSE® systems compatible via diskette; network (optional)	
MUSE Web compatible for retrieval view and printing of MUSE system data	
PDF export of final reports (auto export and custom file name)	
Microsoft® Word export of configured reports	
XML or Excel export of specified data	
EMR Connectivity	Limited HL7 output for EMR's

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	Over-sampling @ 4000 Hz, 12 leads
Dynamic range	320 mV, ±10 mV signal superimposed on ±150 mV DC offset
Resolution	4.88 µV/LSB @ 500 Hz
Noise	<15 µV peak-to-peak noise over 0.01 to 150 Hz (-3 dB) bandwidth
ECG analysis frequency	500 Hz
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 and cubic spline algorithm
Common mode rejection	>140 dB (123 dB with AC filter disabled)
Input impedance	>10 M Ohms @ 10 Hz, defibrillator protected
Patient leakage	<10 µA
Pace detect	Orthogonal LA, LL and V6; 750 µV @ 50 µs

\* partly optional

## Ordering information

Available in: Czech, Danish, Dutch, English, French, German, Hungarian, Italian, Spanish, Swedish, Japanese, Chinese, Norwegian, Polish and Russian



Sales and Service of Cardiology and Surgical Equipment and Supplies

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