

CardioLab IT

Electrophysiology Monitoring System

Power, efficiency & integration – with room to grow

CardioLab IT® powered by Centricity® Xi² Cardiology Information System, is designed to maximize signal acquisition and analysis to optimize clinical workflow. It delivers speed and efficiency in clinical workflow and administrative reporting.

CardioLab IT brings a new level of efficiency and excellent signal quality to electrophysiology monitoring. Whether a simple or complex case, its advanced clinical tools such as 128 bi-polar channel scalability, automated clinical features and activation mapping help physicians expedite diagnosis. CardioLab IT's 3D mapping interface, IT connectivity and intuitive user interface help assure clinical value and increased productivity. Built-in interactive reporting enables point and click data manipulation with interactive capability.

System Features and Options

- CARTO XP System Bi-directional Interface
- GE X-ray Bi-directional Interface
- Cardiolmage Fluoroscopy Image Management System
- ImageCapture
- Dual or triple monitor system configuration
- 32/64/96/128 channel CLab II Plus Amplifier
- Enhanced mapping tools (includes pace mapping, activation and interval alignment)
- Advanced features (includes Plot and Holter capabilities)
- Connectivity to RF Ablation generator(s)
- Real-time Waveform Scrolling
- Statistics and Inventory: Data Management System Usage
- Configurable Electronic Documentation
- Networking solutions, such as remote waveform review and Nurses' Workstation, for simultaneous data entry with waveform archive
- Domain model enables Hospital IT administration of security
- Configurable sampling rates: 1K, 2K, & 4K
- Easy access to raw waveform data (data extraction), binary & ASCII formats
- Enhanced workflow automation
- Isochronal and Isopotential Maps
- Integrated Vitals with Audible Indicators
- Innova Central table-side touchscreen interface



Technical Specifications	
Processor/Data Storage	
Intel 2.33GHz Dual-core or greater processor	
2 GB of RAM	
2 x 80 GB hard drives	
9.4 GB DVD-RAM/CD-RW drive	
Optional 2.6 GB Magnetic Optical Drive	
Optical Scroll Mouse	
OS: Windows XP Professional	
Microsoft Office 2007 Professional	
Networking	
100/1000 Base-T Ethernet, TCP/IP	
Monitors	
20" flat panel ultra high-resolution color	
1600 x 1200 resolution	
Printer Options	
Black & White Ricoh SP 4100N	
Ricoh AFICIO CL3500N Color LaserJet	
Compliance with Standards	
UL 2601-1, IEC 60601-1-2	
European Union Medical Device Directive (CE Marked)	
Environmental/Electrical Specifications	
Operating Temperature: +10°C to +30°C	
Storage Temperature: -10°C to +45°C	
Humidity: 30-75% (storage: 10-95%, non-condensing)	
Maximum Current Draw: 15A/115V, 7A/230V	
Chassis Leakage Current: <100µA	
CLab II Plus Amplifier Technical Specifications	
ECG Input	
High Pass Filter: 0.05 Hz, 0.5 Hz, 5.0 Hz	
Low Pass Filter: 100 Hz	
Gain: 50 - 10,000 in 8 settings	
Catheter/Intracardiac	
High Pass Filter: DC, 0.05Hz, 0.5 Hz, 5.0 Hz, 30 Hz and 100 Hz	
Low Pass Filter: 150 Hz, 500 Hz, 1000 Hz	
Gain: 50 - 10,000 in 8 settings	
Pressure (4 Inputs)	
Inputs: Compatible with all standard external pressure transducers. 5µV/V/mmHg	
Input Impedance: >1 billion Ohms	
Up to: 4 pressure channels	
Range: -100 mmHg to +400 mmHg	
Design	
Sampling Rate: 1K, 2K, 4K	
CMRR: 100dB min	
Input Impedance: >1 billion Ohms	

Leakage Current:	Patient Source: <10µA
	Patient Sink: <10µA
	Patient Sink measured at patient leads under single fault condition: <50µA
	Chassis Leak: <100µA
Operating Temperature:	0°C to +30°C non-condensing
Storage Temperature:	-10°C to +45°C non-condensing
Humidity:	<95% relative at 35° non-condensing
CardioImage™ Fluoroscopy Image Management System	
View real-time images from X-ray, IVUS, echo, or any standard video source on a dedicated 1600 x 1200 monitor	
Acquire up to 1280 x 1024 images at 72 Hz sampling from up to four separate inputs with a maximum input frequency of 135 MHz	

Physical Specifications				
	Width (in/cm)	Depth (in/cm)	Height (in/cm)	Weight (lbs/kg)
Controller	8/21	21/52	18/45	45/20
Workstation – 65"	65/165	30/76	30/75	172/77
Workstation – 47"	47/114	30/76	30/75	145/65
Workstation - Box	24/61	28/71	30/75	89/40
Amplifier (32/64 Channels)	14/36	14/36	10/24	22/10
Amplifier (96/128 Channels)	14/36	14/36	14/36	25/11
Flat Panel Monitor (20")	18/44	8/20	15/37	23/10
Remote CRT Monitor (19")	18/45	19/47	18/45	41/19
Ricoh SP 4100N	15/39	18/45	14/35	34/15.5
Ricoh AFICIO CL3500N				
Color Laser Jet	17/42	21/54	16/40	68/31
Integrated Electronics Box (IEB)	11/28	21/53	25/64	75/34
UPS	6/13	15/39	8/20	30/14

Physiologic Specifications				
	CLab II Plus 128	CLab II Plus 96	CLab II Plus 64	CLab II Plus 32
Total Recording Channels	128	96	64	32
Intracardiac Channels	108	76	44	12
Stim	4	4	4	4
Catheter Inputs	224	160	96	32
ECG	12-Lead	12-Lead	12-Lead	12-Lead
Pressure	4	4	4	4
Catheter Input Modules	7	5	3	1

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