

# Mac-Lab IT

## Cardiac Cath Lab Physiological Monitoring System

### **The cath lab efficiency you need. Patient care you trust.**

Mac-Lab IT® powered by Centricity® Xi<sup>2</sup> Cardiology Information System, is designed to acquire, store and manage clinical data the IT way. It delivers speed and efficiency in clinical workflow and administrative reporting.

Mac-Lab IT combines both the benefits of GE's clinical leadership and information technology in one integrated solution – regardless if you have a single lab or have multiple labs in multiple locations. GE offers a scalable solution that can grow to address your evolving Enterprise IT plan.

With its use of an intuitive Windows® graphical user interface, Mac-Lab IT operation is quick, easy and productive. User-defined procedural lists, workflow automation and configurable electronic documentation help improve case flow, speed and overall ease-of-use. For maximum system reliability, Mac-Lab IT adds the proven dependability of our multiparameter TRAM® module for dedicated real-time data acquisition. Industry-standard hardware, on-line help and the ability to save full-disclosure data to the network or DVD disc media further ensure confident operation. Built-in interactive reporting enables point and click data manipulation with interactive capability.



## System Features and Options

GE X-ray bi-directional Interface  
 ImageCapture  
 End-Tidal CO<sub>2</sub>  
 Dual or triple monitor system configuration  
 Configurable Electronic Documentation  
 Statistics and Inventory: Data Management System  
 Innova Central table-side touchscreen interface  
 Networking solutions, such as Pre/Post Op and Nurses' Workstation, for simultaneous data entry with centralized data storage  
 Connectivity to holding area bedside monitors:  
 GE Dash 3000/4000 and Solar 8000M  
 Domain model enables Hospital IT administration of security  
 Enhanced workflow automation  
 Integrated Vitals with Audible Indicators  
 Coronary diagramming module  
 Continuous ST Segment analysis window  
 Electronic white board scheduling module  
 ADT, Orders, Billing, Results Interface(s)

## Technical Specifications

### Processor/Data Storage

Intel 2.33 GHz 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  
 1280 x 1024 resolution

### Printer

Black & White Ricoh SP 4100N  
 Ricoh AFICIO CL3500N Color LaserJet

### 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

## Physiologic Recordings

Amplifiers: Modular transport design  
 ECG: 12-lead with ST segment analysis  
 Respiration: Impedance method (1 – 200 breaths per minute range)  
 Cardiac Output: Thermodilution, calculated and estimated Fick  
 Invasive Pressure: 4 channels with means (-98 to 350mm/Hg range)  
 Non-invasive Pressure: Automatic and manual modes (oscillometric)  
 Pulse Oximetry: Saturation range 0 – 100% (accuracy 90 – 100%, 1.5%)

## Compliance with Standards

UL 2601-1, IEC EN60601-1-2  
 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: <100 µA

## 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           |
| CRT Monitor (19")                | 18/45         | 19/47         | 18/45          | 41/19           |
| Flat Panel Monitor (20")         | 18/44         | 8/20          | 15/37          | 23/10           |
| Ricoh SP 4100N                   | 15/39         | 18/45         | 14/35          | 34/15,5         |
| Ricoh AFICIO CL3500N             | 17/42         | 21/53         | 16/40          | 68/31           |
| Color Laser Jet                  |               |               |                |                 |
| Integrated Electronics Box (IEB) | 11/28         | 21/53         | 25/64          | 75/34           |
| UPS                              | 6/13          | 15/39         | 8/20           | 30/14           |

GE Healthcare  
 P.O. Box 900, FIN-00031 GE, Finland  
 Tel. +358 10 394 11 • Fax +358 9 146 3310

[www.gehealthcare.com](http://www.gehealthcare.com)



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