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## Customized Installation Solution

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Sentinel can be used in a variety of clinical settings. Each installation can be tailored to your specific needs or be installed straight from the box in almost every clinical and data integration environment.

### HL7 Summary

Transport - TCP/IP or file-based operation

Process type - Windows Service

Lower Layer protocols - Minimal Lower Layer Protocol (MLLP) with configurable delimiters

Direction of data transfer - Bidirectional

Security - Authenticated connection between the Messaging Service and the Sentinel database

Logging - Service start/stop, error conditions and message received events logged to custom windows event log

Logging of incoming or outgoing messages in a configurable location within the local file system

HL7 Versions supported - v2.1 – v2.5

ADT19 query support for patients in customer EMR systems

HL7 OMG and ORM order support

Populating observation (OBX) segments in HL7 messages (such as ORU messages)

Incoming - Patient demographics and administration via ADT feed

Outgoing - ORU R01 with embedded PDF or UNC path to a PDF

To learn more about Sentinel, and our full range of noninvasive diagnostic cardiology products, please contact your sales representative or our offices listed below.

### Single workstation or client installation

Operating system	Windows XP Professional, Windows Vista Business (with latest Microsoft updates applied)
Ports	>= 2 USB ports / one Serial port
Processor	minimum Pentium 4 processor
RAM	>=2GB recommended
Disk Space	minimum 200MB free disk space only for installation, recommended >20GB free disk (plus sufficient for data storage of recordings)
Display	resolution 1024 x 768 minimum, 1600 x 1200 recommended
Drive	CD ROM

### Server installation

Processor	>= 2.8GHz Intel Pentium (Xeon) CPU.
Hard Disks	3 x 250GB >10krpm SATA Hard Drives (RAID-5 data array)
Minimum	2 x 250GB >10krpm SATA Hard Drives (RAID-1 system array)
RAM Memory (Recommended)	>= 4GB ECC RAM
Drive	CD ROM
Operating System (Minimum)	Microsoft Server 2003 Operating System 2 including IIS (with latest Microsoft updates applied)
Network	100/1000 Ethernet Adapter
Database	SQL Server 2005

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

**R<sub>x</sub> only** **CE**  
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Specifications subject to change without notice

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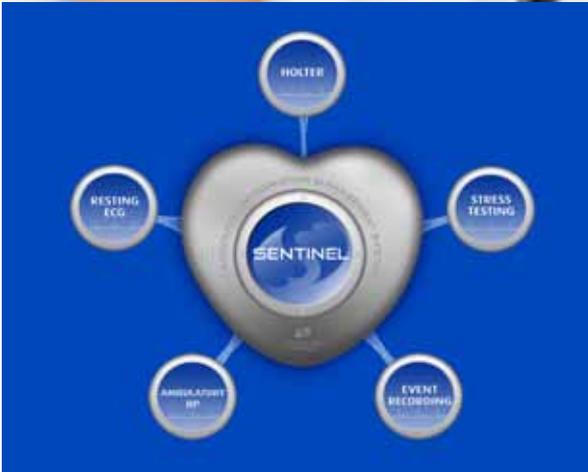
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# Sentinel

Cardiology Information Management

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CONNECTIVITY IN CARDIOLOGY



**SPACELABS**  
Healthcare

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## Connectivity in Cardiology

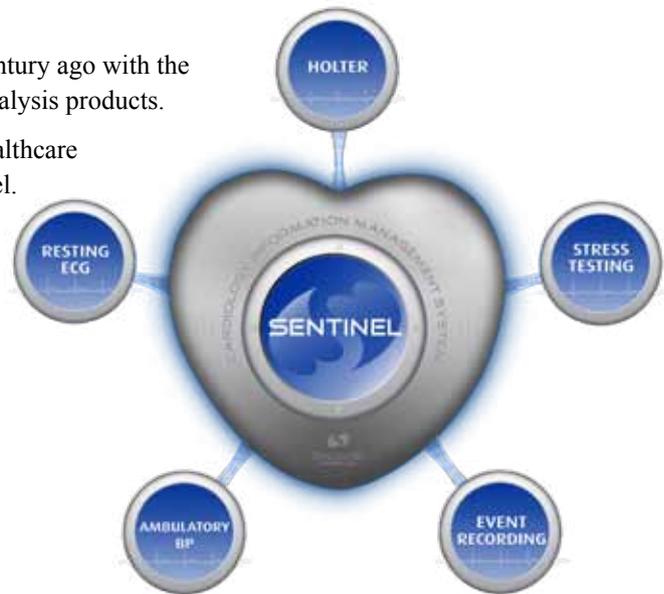
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### Decades of Innovation

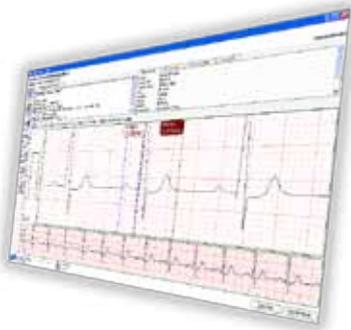
Spacelabs' rich history of innovation began over half a century ago with the development of the world's first Holter monitoring and analysis products.

Now the Diagnostic Cardiology division of Spacelabs Healthcare continues this legacy of innovation by introducing Sentinel.

Sentinel is a scalable Cardiology Information Management System that fully integrates an impressive range of diagnostic procedures into one powerful, yet simple to use tool.



### Sentinel offers clinical value

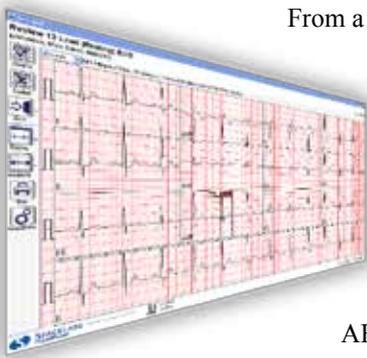


On-line access to historic diagnostic results and investigations.

Chest pain admissions can have their new 12 lead ECG instantly compared for a more informed diagnosis.

### Sentinel makes functional sense

Scalability, invest only in the components you need.



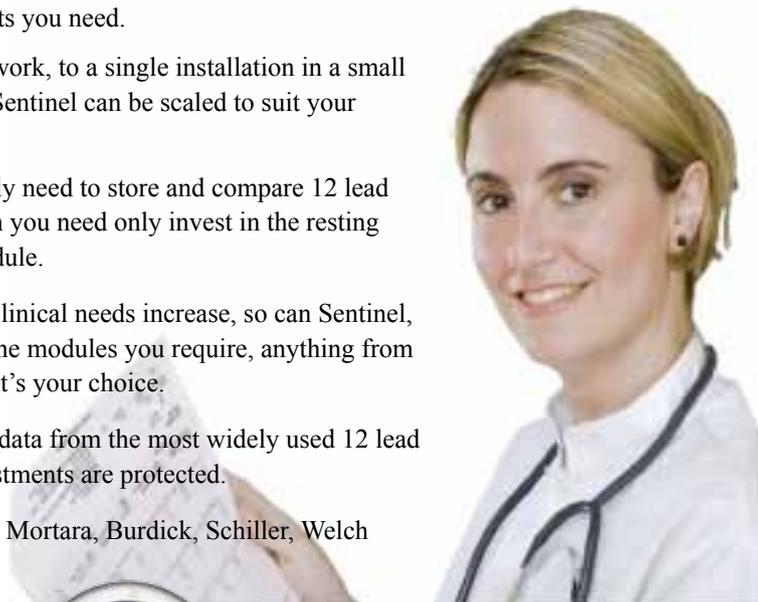
From a multisite network, to a single installation in a small practice, Sentinel can be scaled to suit your needs.

If you only need to store and compare 12 lead ECG then you need only invest in the resting ECG module.

As your clinical needs increase, so can Sentinel, just add the modules you require, anything from ABP to Holter, it's your choice.

The ability for Sentinel to acquire data from the most widely used 12 lead ECG suppliers means that your previous investments are protected.

Sentinel is currently compatible with GE, Philips, Mortara, Burdick, Schiller, Welch Allyn to name but a few.



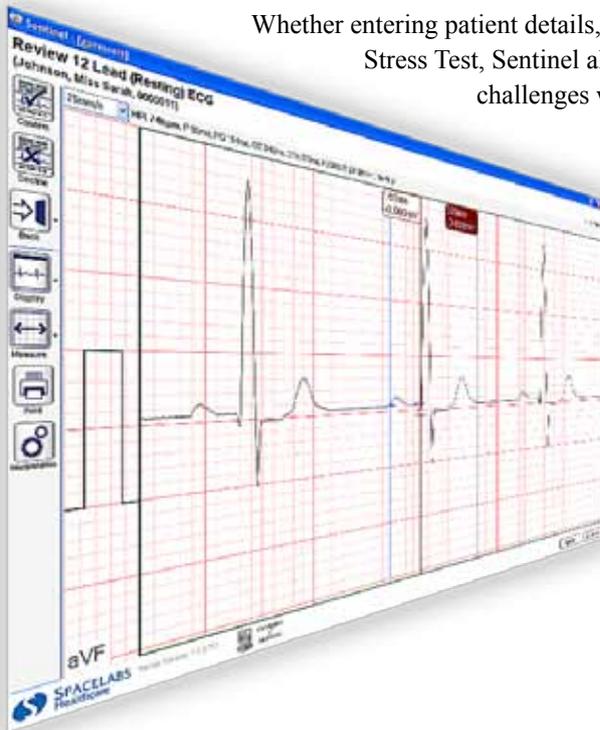
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## Information at your fingertips

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### Extended functionality

Sentinel has been developed to allow you to work the way you want to, integrating our entire range of noninvasive diagnostic cardiology solutions:



Whether entering patient details, downloading a Holter recording or reviewing an ECG Stress Test, Sentinel allows you to work with your department's day-to-day challenges with the utmost ease.

Sentinel's ability to store patient details and Holter recordings in a central, networked database also solves many cost and time related issues.

Sentinel's 12 lead ECG viewer provides clear, high resolution on-line tracings with all the vital data available at a glance.

Network and remote access allows the review, printing and electronic confirmation of reports by physicians.

- No lost paper records
- Time saved searching for patient details
- Improved workflow Management

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## Fully Integrated for Improved Workflow

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### Designed for your needs

Sentinel is designed to facilitate your workflow. The workscreens for each procedure enable you to follow a test from the initial order through to review and confirmation.

Toolbars provide quick access to the key areas and functions, allowing multiple operations to be performed at the same time. Sentinel puts you in control of your workflow, securely, and with all the information you need at your fingertips.

### Sentinel delivers IT advantages

With Sentinel, you can transfer and collect data from your HIS/EMR system via our bidirectional HL7 messaging protocols.

Remote database access is easy, via an HTTPS secure protocol (with appropriate certification).

Enhanced security comes as standard with Sentinel. SQL technology, user profiles and access control ensure a HIPAA compliant platform.

