

Sentinel 11.6 is a web-based Cardiology Information Management System which provides a paper-free environment for non-invasive Diagnostic Cardiology. Sentinel has been designed using the latest programming technology and is easy to install and to use.



Scalable solutions are available ranging from single PC workstations, client-server installations sharing data between regional hospitals, and cloud hosted solutions supplying multiple doctor's practices and hospitals within a single system. Using Microsoft SQL Server Sentinel provides security against unauthorized access to customer data.

Sentinel contains technology licensed from the University of Glasgow to provide 12-Lead ECG interpretations.

Features

Primary features

- User friendly web browser interface.
- Interactive review of Resting, Rhythm and ABP data.
- Interactive review of Ambulatory ECG with optional Pathfinder SL or Lifescreen PRO analyzers.
- Electronic review, signing, printing and exporting of reports.
- Side-by-side comparison of ABP and Resting ECG.
- Convenient secure transfer of tests to and from remote Sentinel installations.
- Patient Centric workflows.
- Case (per visit) specific workflows.
- Manual creation of orders within Sentinel.
- HL7: Configurable ADT, OMG, ORM and ORU message support.
- DICOM: Worklist (order) input, encapsulated PDF and wave form output.
- Security: Audit trail, role-based security and patient access security.
- Optional off-line working mode.

Modalities:

- Ambulatory BP.
- 6/12/15/18-Lead ECG: Resting
- Ambulatory ECG
- Customer specified modalities

Additional Modalities supported via GDT

- Stress and Echo
- Spirometry
- Ergospirometry
- Body-plethysmography
- Custom

Interfaces

6/12/15/18-Lead ECG	CardioExpress (Resting ECG only) SL6, SL6A, SL12, SL12A, SL18A
Ambulatory BP	OnTrak (90227), 90207, 90217A
Ambulatory ECG	evo, Lifecard CF, Lifecard 12, Eclipse PRO and Eclipse MINI
3rd party ECG carts	DICOM, DatamedFT
GDT	Client - Server
DICOM (PACS and ECG carts)	Encapsulated PDF for all modalities. Waveform and encapsulated PDF for Resting ECG
HL7	ADT (Including ADT19), ORU, OMG, ORM
EMIS (UK only)	Patient record update, PDF report transfer

Security

Security options	• Authentication (Windows, internal and multi-factor) • Active Directory (incl. LDAPS) • Single sign on • HTTPS support • Configurable role-based security with 46 configurable permissions • Patient record level security • Recordings, Analyses and Reports held on Sentinel server	• Audit trail feature • Option of no PHI on ABP & Ambulatory ECG Recorders • Encrypted server data • Password strength enforced • Password expiry • Password history enforced • Lockout on password fails • Inactivity logout • View current logins
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Structure

Flexible	• Single stand-alone system to enterprise wide network solution. • Expandable structure to allow installations to expand and grow.	
Configurability	• Staff member roles • Search result columns and filters • Report formats • Data entry validation • Data entry visibility • Web site color and logo image • Automated activities (incl. print on sign)	• Custom test types • Custom data fields • Admin notification to users • Multiple organizations • Multiple facilities • HL7 DICOM field mapping and transformation

Connect and Licensing

Connectivity	• HL7 (incl. ADT19) • LDAP / LDAPS (multi domain/forest) • DICOM (PACS and ECG carts) • Mortara Q-Stress reports • EMIS	• HTTP / HTTPS • GDT • SCI-Store • DataMedFT • Philips Stress VUE reports
Licensing	Multi-feature licensing, activate features via licensing model such as for instance: ABP, Ambulatory ECG, Resting, Rhythm, Stress, ECG interpretation (Glasgow algorithm), DICOM, HL7 ADT messages, HL7 orders. Dongleless Licencing available on Sentinel Windows Server hosted systems.	
Import / Export: Import / Export patient and test data in the following formats, refer to the Operations Manual for a complete list.	ABP formats: ABP, PB0, ART, RPT, G (import only), MON (import only) Resting formats: SCP, FDA / XML, "third-party ECG carts (via DatamedFT and DICOM) All modalities: SNTL, RSNTL, DCM, PDF report	
Mobile devices	• iPad • iPhone • Android	Mobile devices only support reviewing and electronically signing PDF reports

System Requirements

Operating Systems: Sentinel software has been verified and validated for installation and use on the following operating systems.	• Windows 10 Professional and Enterprise (64 bit) • Windows 11 Professional and Enterprise (64 bit) • Windows Server 2019 and 2022
Cloud Hosted Platforms:	• AWS EC2 • Microsoft Azure Virtual Machines
Databases	• SQL Server 2019, 2022 (Standard and Enterprise editions) • SQL Server Express 2022 is deployed if utilising a standalone Workstation install

For current information about hardware requirements please contact your local Spacelabs Healthcare representative.

Regulatory

Marked in accordance with the Medical Device Regulation (EU)2017/745



Marked in accordance with the UK Medical Device Regulation 2002

