

# EC Sense Base

12-lead Rest & Exercise ECG



**CARDIOLEX**

EASY TO USE ECG



# EC Sense Base

**12-lead Rest and Exercise ECG**  
**EC Sense Base (Catalogue no: CN SE)**

The Cardiolex' ECG system, EC Sense, is a cost-effective 12-lead PC-based ECG system for hospitals, private clinics, and other healthcare facilities. The system is designed to be easy to use and produce high quality ECG readings.

## BENEFITS WITH EC SENSE BASE



**EASY TO USE**



**FREEDOM OF CHOICE**



**ADD ON OPTIONS**



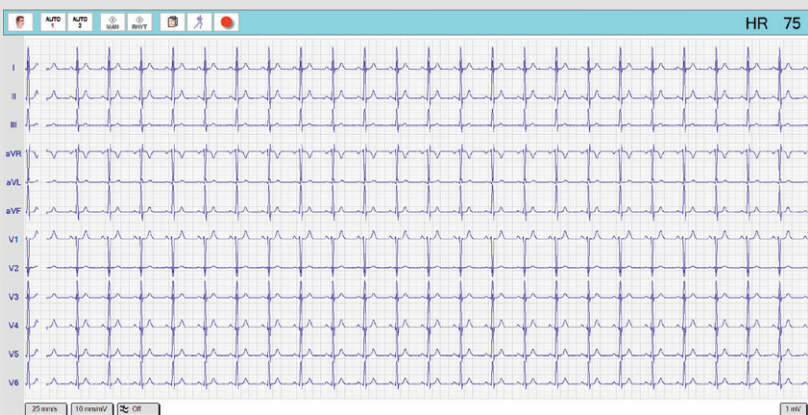
**PATIENT CONTROL**



**QUALITY CONTROL**

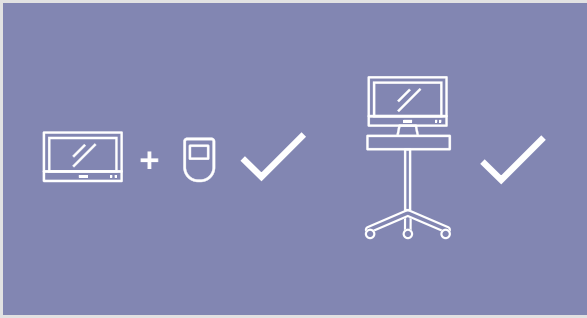


**CLEAR ECG TRACE**



## EASY TO USE

EC Sense is characterized by its simple and intuitive use, which eliminates the risks for improper use. The system is programmable and follows the workflows defined by the user. The need for training is minimal for the normal user; yet the advanced user has every opportunity to grow with the system and use it to its full potential.



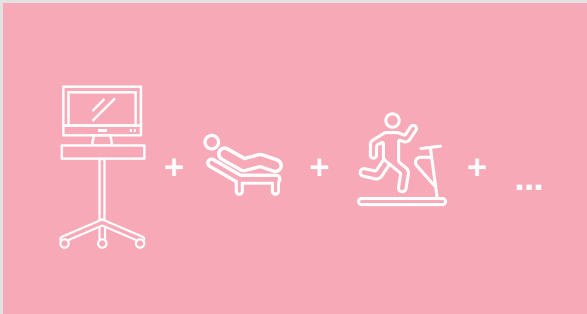
## FREEDOM OF CHOICE

You have the choice between designing your own solution based on your own PC and Cardiolex' acquisition unit (EC Sense Lexor) and software; or a ready-to-go turnkey system, complete with a panel PC and your choice of accessories, installed on the chosen trolley.



## CONTROL OF IDENTIFIED PATIENT

The system controls the patient ID when connected to EC Store in order to verify that input values are correct and exist. Depending on the country's specific ID parameters, the system can extract information from the ID and notify external systems.



## VARIOUS ADD ON EXAMINATION OPTIONS

As its primary function, EC Sense provides Rest ECG, but it is easy to add options to increase the functionality. The chosen options are added without the need for any hardware or software upgrade, and the new function is available immediately.

- GRI Analysis (basic)
- Communication (for storage)
- Exercise ECG
- Caliper (extended measurement)
- Long ECG (base & extended)
- EC Maintenance (for preventive maintenance and troubleshooting)
- Ergospirometry
- EditRestECG

Since the option for Exercise ECG has a different PC requirement, please refer to the datasheet for Exercise ECG if you want to add this option.



## QUALITY CONTROL

To ensure analysis and storage of a high quality ECG trace with limited or no noise or disturbances, a one-click quality check is performed.



## RELIABLE RESULTS

The basis in our ECG systems is the EC Sense Lexor ECG acquisition unit with a noise-insensitive design, containing high quality signal disturbance filters enabling a clear ECG trace. This results in a high proportion of interpretable ECGs in a short period of time.

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**For more information regarding the different turnkey systems, please refer to the data sheet for each system.**





# CARDIOLEX

EASY TO USE ECG

Cardiolex Medical AB develops and markets easy to use systems for ECG.

Our ECG management system and various ECG systems exist on 2/3 of Swedish hospitals, which means that the system has over 10 000 users in Sweden. We offer the complete solution within ECG, from the systems receiving the ECG signal from the patient to the ECG management systems, storing and managing generated data. Our products work for a wide range of users, from University hospitals to small clinics. Our focus is on creating ECG solutions that are user-friendly, reliable and secure.

Read more about our products on [www.cardiolex.com](http://www.cardiolex.com).

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## TECHNICAL DATA FOR EC SENSE BASE

**Sampling frequency:** 2000 sample/s in all leads.

**Resolution:** 22 bits, 0,15  $\mu$ V LSB.

**DC range:**  $\pm$  450 mV.

**Frequency range:** 0,05–500 Hz.

**Input impedance:** > 10 M $\Omega$ .

**Lead fail:** Individual detection.

**Leads:** 12.

**Configuration of leads:** Standard and Cabrera.

**Electrode placement:** Standard or pediatric (V4R).

**Pacemaker:** Detection in all leads.

**Line filter:** 50/60 Hz.

**Tremor filter:** 35/75/100/150 Hz.

**Baseline filter 1:** 0,05 Hz.

**Baseline filter 2:** Correcting.

**Filter presentation:** Possible to view filtered and corrected data simultaneously.

**Interpretation:** Automatic analysis, developed by Glasgow Royal Infirmary (GRI) (option); Median beat calculation; Measurements; Adult and pediatric; Texts in native language.

**Prints:** Portrait/landscape; Any Windows compatible printer; PDF file (optional).

**Communication:** Windows' network communication (TCP/IP); Bi-directional communication with EC Store (optional); Export of Cardiolex XML (Cardiolex format) (optional); Communication to other systems (DataMedFT, DICOM, HL7 aECG, SCP) (optional); Export of PDF report (optional).

**Power supply:** To the acquisition unit from USB.

**Certificates:** ISO 13485, IEC 60601–1, IEC 60601–1–2, IEC 60601–2–25, IEC 60601–4; MDD class IIB; Defibrillation-proof; Type CF; Enclosure and circuit board have flame class UL 94 V–2; CE no. 41315416.

**PC, minimum requirements:** Stationary, laptop or tablet (Windows); Microsoft Windows XP® or later versions, .NET 4; Processor speed at least 1.4 GHz.

RAM at least 2 GB; Screen resolution 1024x768 (rest ECG), 1600x1900 (exercise ECG); USB port.

**USB cable:** 1m or 5m (optional).

**Patient cables:** Trunk cable 2 m or 4 m; Chest leads 1,0 m; Limb leads 1,2 m; Grabber contacts or banana contacts.