

# EC Sense™ Base

12-lead Rest & Exercise ECG



**CARDIOLEX**

EASY TO USE ECG

# EC Sense™ Base

## 12-lead Rest and Exercise ECG

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.



Our EC Sense™ Lector is available with both USB cable or Bluetooth® communication, for flexible ECG transfer and perfect for the digital ECG workflow.

### 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 handling. The system is programmable and follows the workflow 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.



### RELIABLE RESULTS

The basis in all our ECG systems, is the acquisition unit (USB or Bluetooth®) with a noise-insensitive design and a high quality signal disturbance filter (SW). This enables a clear ECG trace and a high proportion of interpretable ECGs in a short period of time.



### 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.



### 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.

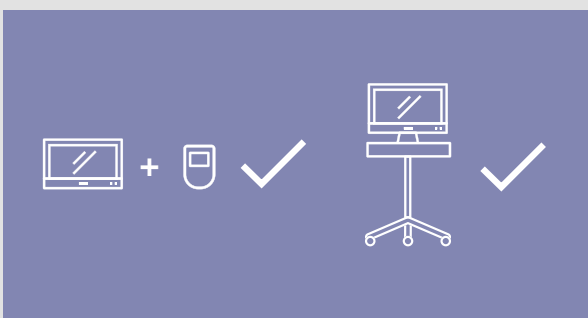
The setting is selectable.



### 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
- Edit Rest ECG

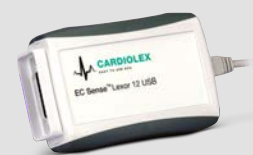


### FREEDOM OF CHOICE

You have the choice between designing your own solution based on your selected PC and either of the two acquisition units (Lexus 12 Blue or Lexus 12 USB); or a ready-to-go turnkey system, complete with a panel PC and your choice of accessories, installed on a trolley.



LEXOR 12 BLUE



LEXOR 12 USB

For more information regarding the different turnkey systems, please refer to the product brochure for our ECG systems.



## CARDIOLEX Group

Cardiolex Group offers complete ECG-solutions, focusing on digital workflow, ease of use and supplier-independent systems.

The broad product portfolio of Cardiolex Group, provides scalable and flexible solutions that suit both larger hospitals and smaller care providers.

## CARDIOLEX MEDICAL

Cardiolex Medical is a Swedish company with ECG-products on the market since 2007.

We offer efficient and user-friendly solutions, which are developed in close collaboration with our customers. Our digital offering is flexible, reliable, secure - and completely paperless.

### TECHNICAL DATA

EC SENSE™ 12 BLUE | CATALOGUE NO.: CN SE-2-B-C-D\*

EC SENSE™ 12 USB | CATALOGUE NO.: CN SE-4-B-C-D\*

\*All letters shall be replaced by a digit, depending on the selected option. See price list for all selections.

**ECG leads:** 12-leads (I, II, III, aVR-L-F, V1-6)

**Dynamic range:** ± 316 mV DC

**Sample rate:** 8000 samples/s in all channels

**Resolution:** 1 µV/LSB

**Frequency range:** 0 - 150 Hz

**Pacemaker detection:** Detection in all leads

**Input impedance:** > 50 MΩ

**Electrodes check:** Frequency analysis and impedance measurement

**Input protection:** Against defibrillator shock<sup>1)</sup> and HF from surgery devices

**Sampling rate for signal analysis:** EC Sense Lexor 12 Blue: 500 samples/second/channel | EC Sense Lexor 12 USB: 1000 samples/second/channel (High resolution ECG possible)

**Lead fail detection:** Via software in EC Sense

**Configuration of leads:** Standard and Cabrera

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

**Line filter:** 50/60 Hz (Via software (EC Sense))

**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).

**Bluetooth® (Lexor 12 Blue):** Class 2

**Certificates:** ISO 13485, MDD 93/42/EEC Class IIb (EC Sense)

**Patient cables:** Snap (1.05 m | 1.53 m), Grabber (1.05 m | 1.53 m) & Banana (1.53 m)

**Battery:** EC Sense Lexor 12 Blue: 2 AA batteries | Capacity >1000 ECGs

**Power supply:** EC Sense Lexor 12 USB: To the acquisition unit from USB.

**PC, minimum requirements:** Stationary, laptop or tablet (Windows); Microsoft Windows 10® or later versions; .NET 4.7.2; Processor speed at least 1.4 GHz; RAM 2 GB or more; Hard drive 120 GB or more; Screen resolution: 1024x768 (rest ECG), 1920\*1080 (exercise ECG); USB port.

**USB cable (Lexor 12 USB):** 5 m

1) The patient cable or suction electrode system must feature a protective resistor of 10 kOhm in each of the cables. Protection against defibrillator discharge is only ensured through the use of a patient cable or suction electrode system of this type.

