

Zenikor
MEDICAL SYSTEMS

Zenikor-ECG Product Sheet



WHAT IS ZENICOR-ECG?

Zenikor-ECG is a complete and easy system solution where the patient can register ECG recordings over a long period of time – several times a day and in the event of symptoms. The ECG recordings are transferred to a central ECG database, where they are presented to the care provider via a web interface.

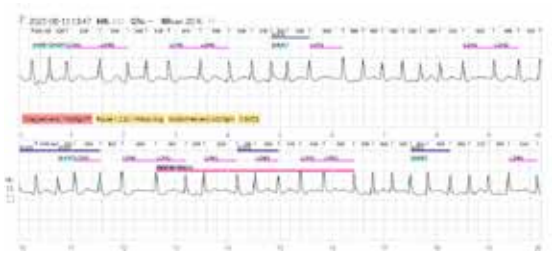
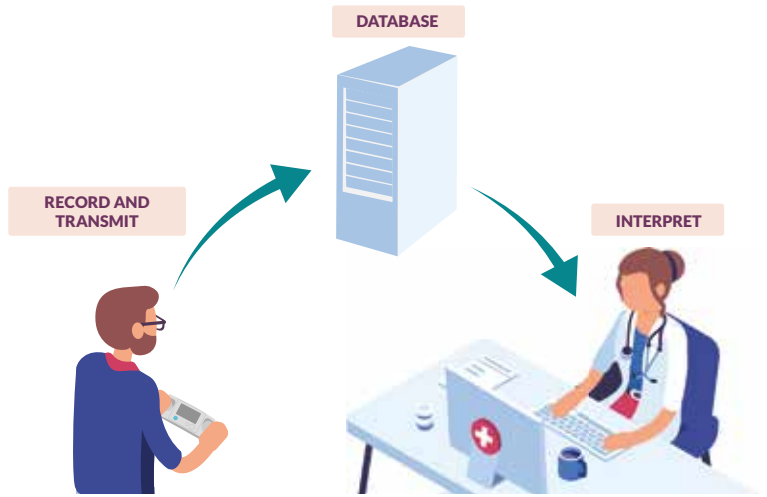
THE SYSTEM CONSISTS OF TWO COMPONENTS:



1. The Zenikor-ECG device, a handheld ECG device, known as a thumb ECG, with which patients themselves register their ECG by placing their thumbs on two electrodes for 30 seconds. At the press of a button the recording is transferred via the mobile network to a central ECG database.



2. The Zenikor-ECG Doctor system, a web-based service for storing, processing and presentation of received ECG recordings; with analysis, process- and interpretation support for the care provider for a faster and safer diagnosis. The Zenikor-ECG Doctor system is installed on a central server together with the ECG database and can be accessed from any internet connected unit without prior installation of software.



Easy

Effective

Cost-saving

AREAS OF APPLICATION

Spotting AF - Stopping stroke

With Zenikor-ECG up to four times more cases of atrial fibrillation can be identified compared to conventional methods. Two to four ECG recordings daily for two to four weeks is sufficient.^{1,2}

- Secondary preventive screening among stroke patients
- Primary preventive screening in risk groups

More efficient arrhythmia assessments

Compared to conventional ECG recorders (i.e. Holters), Zenikor-ECG has proved to diagnose up to four times more cases of arrhythmias. Register ECG recordings only in the event of symptoms or also regularly to identify silent arrhythmias.³

- Arrhythmia assessment of adult patients with symptoms
- Arrhythmia assessment of paediatric patients (0-18 years)



VALIDATED AND COST-EFFECTIVE

Scientifically validated for all areas of application in over 48 published scientific studies and seven theses, all unique to Zenicor-ECG. In clinical use for more than 15 years with excellent references available.

Validated for arrhythmia assessment and atrial fibrillation screening, and proven effective from a health-economics perspective for atrial fibrillation screening both after stroke and in primary prevention for stroke.^{4,5}

A USER FRIENDLY SYSTEM



Easy for the care provider:

- Web-based service without any need for local installation of software
- Interpretation support for an easy and effective diagnosis of arrhythmias
- Timeline for a better overview
- Possible to discontinue assessment as soon as a finding has been made
- High cost-efficiency, reduced time for ECG interpretation⁶
- Unlimited ECG monitoring period possible
- Unlimited storage of ECG recordings in the Doctor system
- Convenient transfer of ECG recordings to the Doctor system



Easy for the patient:

- Quick and easy to record an ECG
- Easy to carry
- Non-adhesive electrodes, no skin irritation
- Easy to use for both children and older adults
- Effective diagnosis
- Possible to label symptomatic ECG recordings
- Minimal number of visits to the care provider

TECHNICAL DATA



The Zenicor-ECG Doctor System:

- Encrypted web site for ECG processing and analysis interface
- Algorithms by Cardiolund
- Unlimited number of patients and ECG recordings can be stored
- Supports use in Internet Explorer 11 or later versions, Microsoft Edge, Mozilla Firefox and Google Chrome
- Event-driven e-mail notifications
- CE marked Class IIa Medical Device

The Zenicor-ECG Doctor System, optional functions:

- Local administrator
- Centralised interpretation
- One time ECG
- Multi factor authentication



The Zenicor-ECG patient device:

- Wireless transfer of ECG recordings via Mobile Network
- Internal storage space for 200 ECG recordings
- Size 150 x 65 x 30 mm
- Weight 135 g without batteries (3 x 1.5V AA)
- IP22 classification
- Measurement range 30 - 300 bpm
- Length of ECG recording can be set from 10-30 seconds
- CE marked Class IIa Medical Device



REFERENCE LIST OF PUBLICATIONS

- 1) Orrsjö G, Cederin B, Bertholds E, Nasic S, Welin L. **Screening of Paroxysmal Atrial Fibrillation after Ischemic Stroke: 48-Hour Holter Monitoring versus Prolonged Intermittent ECG Recording.** ISRN Stroke, 2014; 208195
- 2) Doliwa PS, Änggårdh Rooth E, Frykman Kull V, von Arbin M, Wallén H, Rosenqvist M. **Improved screening for silent atrial fibrillation after ischaemic stroke.** Europace. 2012;14:1112-1116
- 3) Hendrikx T, Rosenqvist M, Wester P, Sandström H, Hörnsten R. **Intermittent short ECG recording is more effective than 24-hour Holter ECG in detection of arrhythmias.** BMC Cardiovascular Disorders. 2014; 14:41
- 4) Levin L, Husberg M, Doliwa Sobocinski P, Frykman Kull V, Friberg L, Rosenqvist M, Davidson T. **A cost-effectiveness analysis of screening for silent atrial fibrillation after ischaemic stroke.** Europace. 2014; Oct:27
- 5) Aronsson, M, Svennberg, E, Rosenqvist, M, Endahl, J, Al-Khalili, F, Friberg, L, Frykman-Kull, V, Levin L-Å. **Cost-effectiveness of mass screening for untreated atrial fibrillation using intermittent ECG recording.** Europace. 2015; Apr:13: 1023-1029
- 6) Svennberg E., Stridh M., Engdahl J., Al-Khalili F., Friberg L., Frykman V., Rosenqvist M. **Safe automatic one-lead electrocardiogram analysis in screening for atrial fibrillation.** Europace 2016, Oct 6

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The products Zenikor-ECG and Zenikor-ECG Doctor system are CE marked as Zenikor EKG-2 and Zenikor-EKG Back-end system