

# Zenicor



## Zenicor-EKG Remote arrhythmia and AF diagnostics.

### About Zenicor-EKG

Zenicor-EKG is easy to use for both patients and care providers, allowing longer investigation periods and proven superior arrhythmia detection rate. This leads to more accurate diagnosis.

Zenicor-EKG is designed for use by all kind of patient groups including children and elderly people.

With Zenicor-EKG, patients take their own ECG readings quickly and easily by simply putting both thumbs on the device. The device is small enough to fit in a pocket, so patients can bring it with them everywhere.

The patient can register the ECG anywhere at anytime. All it takes is putting two thumbs on the device and then send the ECG to the care provider, using the built-in mobile phone.



### Features

- Easy to use, handheld device for ECG measurements outside the hospital
- 10, 20 or 30 seconds, limb lead I registration by attaching two thumbs on the device
- Possibility for patient to indicate symptom for the registration
- Built-in mobile phone enables user initiated automatic sending of the ECG to the Internet connected ECG database with patients integrity secured
- The ECG database can be reached by the care provider from any Internet connected computer. No installation or specific software is required
- ECG is presented to the care giver in easy to read menus, with built-in tools for arrhythmia diagnostics
  - Quick overview of ECG's
  - History of received ECG readings
  - Calculation of HR, QTc and RRvar
  - ECG printout on a standard printer
  - Changeable paper speed and magnification of the ECG
  - Notification to the care provider by e-mail when a reading arrives
- Patient device and ECG database can be used in any European country

# Zenikor-EKG System overview



## Presentation of ECG readings



### Patient device technical data

- Built-in GSM/GPRS modem
- Memory for up to 200 ECG readings
- Dimensions: 145 x 65 x 25 mm
- Weight: 135 g (excl. batteries)
- Power supply: Three 1.5V AA batteries  
(lasts for about 500 readings and sendings)
- CE-marked
- Unique technology

### Clinical case 1

A worried patient with a vague feeling of arrhythmia uses the Zenikor-EKG for a few weeks to register and transfer ECG readings twice a day and when experiencing the sense of arrhythmia.

### Clinical case 2

After a cardioversion of an atrial fibrillation, the patient is given a Zenikor-EKG to take regular readings for four weeks. Any recurrence will be caught quickly, even if the patient doesn't feel any symptoms.

### Use in clinical trials

The Zenikor-EKG system has been used in several clinical studies in Sweden as a tool for arrhythmia and AF follow up outside the hospital. Typically the patient uses the device for 2 to 4 weeks, registering their ECG twice a day and when symptoms occur.

### Exampel of studies:

- Arrhythmia diagnosis 24h Holter vs. Zenikor-EKG  
Reference: Karolinska Institute
- Screening for AF in patients with stroke/TIA.  
Reference: Karolinska Institute
- Screening for AF in primary care patients with CHADS2 > 1.  
Reference: Umeå University
- Arrhythmia follow up after AF ablation  
Reference: Linköping University Hospital
- Arrhythmia follow up after AF thoracic surgery.  
Reference: Karolinska University Hospital
- QTc follow up.  
Reference: Karolinska Institute

