ZENICOR ONE

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Effective long-term monitoring for arrhythmias — thumb-ECG with easy transfer via 4G/5G

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What is **Zenicor One?**

Zenicor One is a handheld ECG device for patient activated, intermittent monitoring intended for prolonged investigations, from two to four weeks. ECG is recorded by placing thumbs or index fingers on the two electrodes. The recording length per ECG is 30 seconds. The ECGs can be transferred directly from the device to a cloud database, without integration with applications or Wi-Fi networks.

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Easy to use for adult and paediatric patients[4]

Improved detection

Studies show Zenicor One can detect up to four times more cases of arrhythmia compared to 24-48 hours of continuous ECG monitoring.[1-3]

Preferred method for large-scale AF Screening

STROKESTOP 1, STROKESTOP 2 and the SAFER trial — some of the largest randomised controlled trials for atrial fibrillation screening — have all selected Zenicor One.[7-9]

Technical specifications

- Wireless transmission of ECG recordings via mobile network
- Internal storage capacity for 200 ECG recordings
- Size 150 x 65 x 30 mm
- Weight 135 g without batteries (3 x 1.5 V AA)
- IP22 rated
- Measurement range 30-300 bpm

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Scientifically validated method

Zenicor One is scientifically validated for arrhythmia assessment and atrial fibrillation screening in over 90 published scientific studies.[1-9]

Complete list of research available at www.zenicor.com/research-reports

Easy for the healthcare provider

- Paired with Zenicor View, a web-based analysis system
- Supports remote interpretation
- Allows ECG review during ongoing investigation for early diagnosis
- Validated automated interpretation support algorithm[6]

Easy for the patient

- Enables prolonged, non-invasive monitoring
- Stand-alone device, no integration with apps or Wi-fi connection required
- Intuitive to use for ECG recording and transmission
- Option to flag symptomatic episodes

- MDR classified product
- Supports EN 60601-2-25 and -2-47
- Interpretation algorithm from Cardiolund

Zenicor One is CE marked as Zenicor EKG-2, and Zenicor View is CE marked as the Zenicor-EKG Back-end system.

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Selected publications

1. Orrsjö, et.al. Screening of Paroxysmal Atrial Fibrillation after Ischemic Stroke: 48-Hour Holter Monitoring versus Prolonged Intermittent ECG Recording. ISRN Stroke, 2014; 208195

2. Doliwa, et.al. Improved screening for silent atrial fibrillation after ischaemic stroke. Europace. 2012;14:1112-1116

3. Hendrikx, et.al. Intermittent short ECG recording is more effective than 24-hour Holter ECG in detection of arrhythmias. BMC Cardiovascular Disorders. 2014; 14:41

4. Usadel, et.al (2016). Arrhythmia Detection in Pediatric Patients: ECG Quality and Diagnostic Yield of a Patient-Triggered Einthoven Lead-I Event Recorder (Zenicor EKG-2™). Pediatric cardiology, 37(3), 491–496

5. Aronsson, et.al. Cost-effectiveness of mass screening for untreated atrial fibrillation using intermittent ECG recording. Europace. 2015; Apr:13: 1023-1029

6. Svennberg, et.al. Safe automatic one-lead electrocardiogram analysis in screening for atrial fibrillation. Europace 2016, Oct 6

7. Mant, et.al (2024). Randomised controlled trial of population screening for atrial fibrillation in people aged 70 years and over to reduce stroke: protocol for the SAFER trial. BMJ open, 14(4), e082047

8. Kemp Gudmundsdottir, et.al. (2024). Randomized Invitation to Systematic NT-proBNP and ECG Screening in 75-Year Olds to Detect Atrial Fibrillation -STROKESTOP II. Circulation, 10.1161/CIRCULATIONAHA.124.071176. Advance online publication

9. Svennberg, et.al. (2021). Clinical outcomes in systematic screening for atrial fibrillation (STROKESTOP): a multicentre, parallel group, unmasked, randomised controlled trial. Lancet (London, England), 398 (10310), 1498–1506

Complete list of references at
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Zenicor One, part of
The Zenicor Solution

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For more information
Please watch our instructional video for patients. Scan the QR code to go directly to the video.

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