



A full 12-lead ECG. Without the ECG machine.

CardioNS enables clinical-grade 12-lead ECG recording wherever care happens—not just in the clinic. It allows you to capture ECG data when symptoms actually occur, whether at home, in transit, or during remote consultations, while enabling real-time monitoring, instant reporting, and seamless collaboration.

Clinical highlights

12-lead ECG on mobile

Capture events in real time

Reliable in transit

Instant reports and sharing

Unlimited Android devices

Scheduled ECGs miss real-world symptoms

Most ECG recordings are performed when patients are asymptomatic, leading to missed events and inconclusive results.

Capture ECG when it actually matters

Most ECG recordings are performed when patients are asymptomatic, leading to missed events and inconclusive results.

Designed for modern cardiology workflows

From private practices to emergency care, CardioNS delivers reliable diagnostics wherever they are needed.

-  Clinic
-  Home monitoring
-  Ambulance/emergency
-  Rural care
-  Telemedicine

CardioNS device allows my patients to record an electrocardiogram from the comfort of their home at the exact moment they experience symptoms and send the recording to me via email. In this way, we can determine whether the arrhythmia is harmless or potentially dangerous (such as atrial fibrillation), which may require the introduction of oral anticoagulant therapy to prevent complications like cerebrovascular stroke. CardioNS will be a powerful tool in my future clinical practice, enabling me to resolve uncertainties related to intermittent arrhythmias more quickly and efficiently.

„We stopped chasing symptoms — we capture them.”

Before CardioNS, many ECGs were inconclusive because patients arrived without symptoms.
— Cardiologist

Dr. Miroslava Sladojevic
Cardiologist

CardioNS is a device that provides an elegant and reliable solution to the diagnostic challenges in patients experiencing very unpleasant but short episodes of tachycardia and arrhythmias, thereby enabling timely treatment. It has also proven to be a useful tool for patients after ablation procedures—interventions used to treat arrhythmias—when they experience symptoms and I want to be certain that there is no recurrence of the arrhythmia. The device is easy to use, records a technically precise 12-lead ECG (which is particularly important for diagnosis), and within minutes, the ECG is sent to my email.

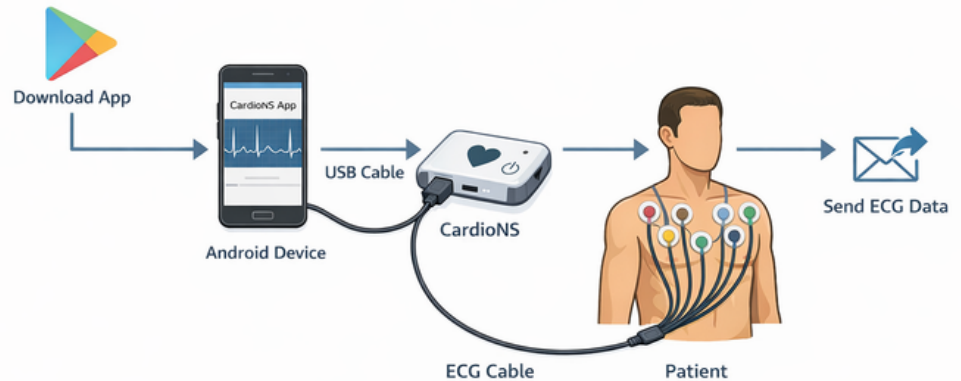
Dr. Vladimir Knezovic
Electrophysiologist



From recording to report in minutes

A complete 12-lead ECG workflow—from capture to diagnosis—on a mobile device.

How CardioNS works



Why it works in practice

- Plug-and-play. No setup required
- Stable USB connection (no signal drop)
- Powered directly by a mobile device
- Works across teams and locations

Traditional ECG vs CardioNS

Traditional ECG

- Fixed location
- Dedicated ECG machine
- Thermal paper required
- Limited data sharing
- Sensitive to motion
- One licence per device

CardioNS

- Fully mobile
- Smartphone-based
- Digital standard print
- Instant sharing
- Reliable in transit
- Unlimited Android devices

Technical snapshot

- 12-lead ECG
- 24-bit ADC (Texas Instruments)
- Real-time streaming
- PDF + raw data export
- No batteries required



 Vladimir Nikic
 info@cardions.com
 +381 63 11 33 012
 www.cardions.com

CardioNS is a clinical-grade mobile ECG solution that transforms any Android device into a full 12-lead diagnostic workstation. www.cardions.com

PanonIT develops advanced medical and software solutions, operating across Europe and internationally.





CardioNS mobile ECG device

Technical Specification

Dimensions

Width: 64,3 mm
Depth: 22 mm
Height: 50 mm
Weight: 50 grams

Basic information

AD convertor resolution: 24-bit
Voltage: 5V/3.3V
Power consumption: 0.5w
Number of channels: 12 (twelve)
Sampling frequency: 100 Hz – 1.066 Hz
Input signal range: ± 5 mV

Processing

Intended for: acquisition, display, interpretation, streaming, and printing ECG signals

Patient data: name, date of birth, race, blood pressure, height, weight, status (Diabetes, Smoking, Alcohol, Hyperlipidemia, Positive Family Anamnesis, Drugs, Pacemaker), Profession, Address, Phone, Email

Recording time: from 1 s to 60 min

Low-pass filter: 25 Hz, 40 Hz, 65Hz, 80 Hz, 100Hz

High-pass filter: 0.05 Hz, 0.067 Hz, 0.4 Hz, 0.5 Hz, 0.67 Hz, 1 Hz

Notch filters: 50 or 60 Hz digital filter

Lead display: Standard (I, II, III), Unipolar (aVR, aVL, aVF), External (I, II, III, aVR, aVL, aVF), Precordial (V1), All (I, II, III, aVR, aVL, aVF, V1)+(V2+V6), Custom E2

Aplitude scale: 5mm/mV, 10mm/mV, 20mm/mV, 40mm/mV

Time scale: 25mm/s, 50mm/s, 100 mm/s

Electrode placement detection

Pacemaker detection: between 2 mV and 250 mV, durations between 0,1 - 2,0 ms

Data Management

Report access with the CardioNS application

Secure printing through the internal network, direct .pdf storage on a local device

Worklist integration for: CSV

Protection Classification

Medical device classification: Class IIa

Applied parts: CF

RF emissions (CISPR 11): Group 1, Class B

Ingress protection: IP22

Applied Standards

ISO 15223-1:2016, EN ISO 15223-1:2016, EN 1041:2008/A1:2013, EN ISO 14971:2012, IEC 62366-1:2015, IEC 62304:2006/A1:2015, ISO 11073-91064:2009, ISO 11240:2012, EN 60601-1:2006/A1:2013, EN 60601-1-2:2015, EN 60601-1-6:2010, EN 60601-1-11:2010, IEC 60601-2-25:2011, EN ISO 10993-1:2009/AC:2010.

Operating Conditions

Temperature, operating: 5° to 40°C
Relative humidity: 15 to 90% (limited condensation)
Pressure during operation: 700 to 1060 hPa

Transport & Storage Conditions

Temperature: -25° to 70°C
Relative humidity: 15 to 90% (limited condensation)
Pressure during operation: 700 to 1060 hPa

CardioNS application minimal technical requirements

Operating System: Android OS 7.0 or above
Processor: CPU Speed Octa-core from 1.95 GHz per core
Storage: Recommended free space 200 MB
RAM: 6 GB
Connectivity: Wi-Fi 802.11b/g/n



MANUFACTURER
PanonIT doo
Miroslava Antića 7
Novi Sad, Serbia

www.cardions.com

AUTHORIZED REPRESENTATIVE
PanonIT doo
Dunajska cesta 136
Ljubljana, Slovenia

info@cardions.com

