



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

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