



# KardioScreen

## Connected Cardiac Care ... Anywhere.

KardioScreen is an **FDA-cleared** clinical-grade **12/6 Lead ECG solution**.

Portable, cloud-connected, and fully digital, KardioScreen helps doctors respond within a matter of minutes to diagnose and manage underlying conditions from the bedside or afar.



Easy Setup  
and Use



Rugged, Lightweight,  
& Pocket-sized ECG



No Carts, Gel,  
Printer or Paper



Lead  
Error Check



ECG Parameter  
Extraction



Risk  
Classification



Early Detection  
of Heart Disease



Real-time Alerts for  
Acute Events



Tablet not included.

## Easy to use. Anytime, anywhere.

KardioScreen streamlines ECG workflows and reduces clutter and cost by eliminating the need for a cart, printer, paper, or gel. Lead error detection helps ensure proper placement and readings. Patient ECGs can be in-hand in less than a minute and can be accessed from anywhere, making this best-in-class device essential to digital health offerings.

KardioScreen has been used in point of care, mobile outreach camps, hospitals, ICUs and ambulances\*. It is used for both fast triage in community care as well as acute event diagnosis and remote monitoring.

## Real-time response and faster diagnoses.

iMedrix software performs real-time automatic AI (Artificial Intelligence)\* data classification and analytical monitoring of heart health parameters. Software support for cohort and deep longitudinal analysis provides assistance for rapid diagnosis. iMedrix works with leading medical device and pharma majors to apply its analytics.



### Cloud based and user friendly.

KardioScreen's easy-to-use Android app records ECG readings and stores them on the cloud for hassle-free access anytime, anywhere.



### Accurate and comprehensive.

iMedrix software automatically classifies and monitors\* cardiac parameters. It provides real-time alerts and two-way interaction between doctors and patients to support quick, accurate medical attention.



### Trusted and Certified.

KardioScreen is an FDA 510(K) cleared and CE marked device. It has been clinically tested and used in 16 countries with 150,000+ patients (March 2020).

\* Certain software features such as cloud storage and analysis tools require additional licensing and are not covered under the FDA clearance. Features not cleared by the FDA are not available in the United States, except during any emergency use authorizations.

# Specifications

Certification	FDA 510(K) Cleared
Heart Rate Measurement	30BPM to 220 BPM $\pm 10\%$ or 5BPM whichever is greater
Sampling Rate	2,000,000 samples/sec/Ch – Sampling; 244 samples/sec/Ch - Analysing
Capture Modes	12-lead or 6-lead, with 10s capture mode; 3 hours of continuous mode ECG viewing
Recording Mode & Duration	Standard 12-lead and 6-lead capture support; 10s record duration support
ECGs per charge	300+ ECGs of 10s each
Cable and Electrode Check	Cable insertion and loose electrode check feature
Display & User Interface	Interactive display compatible with any Android tablet or mobile phone Android ver 6 and above supported
Printing	Regular Letter/A4 paper, Letter ECG paper support using WiFi Printer 3" Thermal Printer Support
Paper Speed	25mm/sec and 50mm/sec, selectable by user
Frequency Response	0.05Hz to 75Hz ( -3dB)
Electrical Performance and Safety	Complies as per IEC 60601-1 and IEC 60601-2-25 - CMRR: $\geq 95$ dB - Input Impedance: $\geq 2.5M\Omega$ - Patient Safety: $\leq 10 \mu A$
EMI/EMC	As per IEC60601-1-2
Filters	Patented AC-50Hz/60Hz, EMG/EMC and artefact removal smart filters
A/D Converter resolution	16 bit
Defibrillation Protection	Pulse characteristics of 5kV potential, duration (5 to 20ms), carrying energy of 360 joules
Gain Control	5, 10, 20 mm/mV, user controlled
Battery	3.7V rechargeable lithium-ion, >15 hours continuous operation
Connectivity	Bluetooth Low Energy (BLE)

## Analysis Modes\*

### 6L Rhythm Analysis Mode

Complete rhythm analysis including normal beats, arrhythmia, PVC, Afib and SVT

Detection of tachycardia up to 220BPM

Detection of bradycardia as low as 30BPM

Detection of silent or paroxysmal afib detection

QT analysis  
- Long QT  
- QT variability analysis

### 12L Comprehensive ECG Mode

ST-T change detection

STEMI event detection

LVH abnormality detection and analysis

Atrial abnormality detection and analysis

VT/VF episode detection

Conduction blocks detection and analysis:  
- Bundle branch blocks  
- AV Blocks

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