



Hospital grade 8/12 lead ECG



The App guides you to perform a perfect ECG



Telecardiology service available 24/7



Bluetooth streaming of ECG in real time



Italian design and manufacturing



Charge the device directly in the case



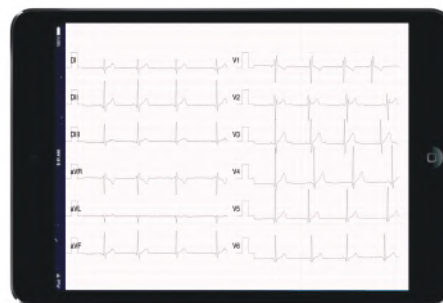
**D-Heart** is an Italian company specializing in the conceptualization, development and production of innovative medical devices and services. Our mission is to promote the prevention of cardiovascular diseases, by making accessible to as many people as possible, low-cost and high-impact screening services.

Every element, from the device to the application, reflects the principle of the D-Heart brand: **Reliability meets Simplicity.**

## THE HEALTH OF THE HEART

**Cardiovascular diseases** represent the **leading cause of death** in Western countries and the risks increase with age. Today, thanks to progressive science and modern medicine, the average age of the world population is increasing worldwide.

For this reason, the **prevention, monitoring** and treatment of cardiovascular diseases are **at the heart** of the health agenda globally.



**SMARTPHONE ECG DEVICE**  
Check Your Heart Everywhere

**D-Heart Srl®**

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ISO 9001

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reddot design award 2018

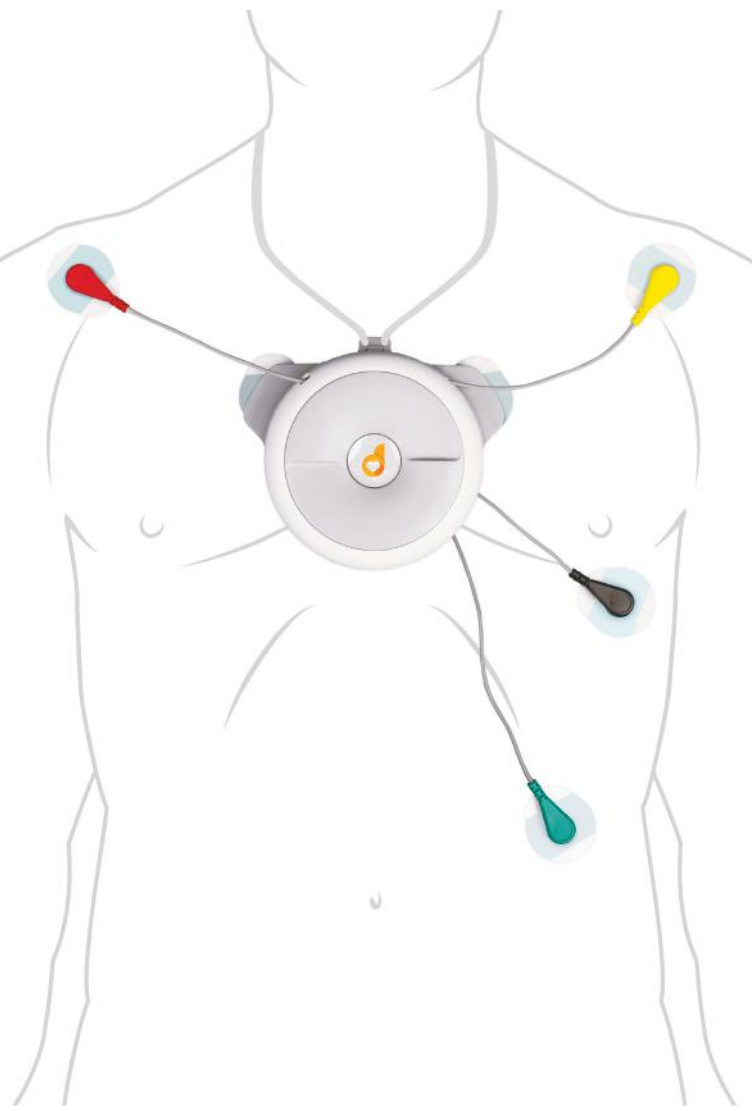


Innovation Award 2018

## D-HEART

The first 8/12 lead ECG device, specifically designed for smartphone and tablet application, is simple to use, clinically reliable, portable and affordable.

It allows anyone to perform a hospital grade ECG in total autonomy and to send the results to the 24/7 telecardiology service provided by D-Heart, or to your trusted doctor.



## FOR PATIENTS

### What does it do?

D-Heart is a portable 8/12 lead electrocardiograph with a specially designed application for use with smartphones and tablets, which allows the recording of a high quality grade ECG anywhere at any time.

The 8 lead ECG is the simplest examination to check your heart status.

D-Heart is as reliable as the ECG examination performed at a hospital but designed to be used by patients in their home. <sup>\*1,2</sup>

By simply following the guidance of the D-Heart application, anyone can perform a professional hospital grade ECG in four easy steps, with the help of your smartphone or tablet camera.

The smartphone camera displays the patient's own chest with accurate electrode placement with a median error of 0.5 cm per electrode. <sup>\*3</sup>

### For who?

The D-Heart device is designed for use by anyone who simply wants to monitor the health of their heart or that of a family member, to prevent potential heart problems with regular checks and monitoring.

For those over 60 years old and with other cardiovascular risk factors, it is necessary to record a resting ECG and to have the result reported on by a specialist.

Regardless of age, anyone with a diagnosis of a chronic disease which could lead to increased cardiovascular risk, would require a resting ECG reported on by a specialist.

Take your D-Heart device wherever you go – business trips, holidays, abroad or simply to the office. The D-Heart device can be carried with you during your daily activities, due to its innovative design features: light, small, laptop chargeable and protective packaging. A cardiologist will always be one click away!

## FOR HEALTH PROFESSIONALS

### What does it do?

D-Heart is a portable 8/12 lead electrocardiograph with a specially designed application for use with smartphones and tablets, which allows the recording of a high quality grade ECG anywhere at any time.

### 12 lead ECG

D-Heart allows the health professional to record 12 lead asynchronous ECGs of their patients.

The App will guide the Health Professional through a step by step program in the recording of an accurate, reliable 12 lead ECG of the patient.

Once an ECG has been recorded, the application will prompt the Health Professional to save the report and if required, forward the ECG to the 24/7 telecardiology service. This service will then provide an innovative triage report of the examination specifically designed for cardiac patients.

### For who?

The D-Heart device and services are particularly useful for general practitioners, occupational doctors, sports doctors, nurses and caregivers who make home visits, as well as pharmacists. The ECG monitoring is a valuable preventative medical service the health professional can provide for their patients. The service is further enhanced by the telecardiology reporting facility after receipt of an ECG, which provides a report signed off by a cardiologist in a short time. Each operator has the ability to create a medical record for each patient with the examination history and statistics.

1) Maurizi, N. et al. Cardiovascular screening in low-income settings using a novel 4-lead smartphone-based electrocardiograph (D-Heart(R)). *Int J Cardiol* 236, 249-252, doi:10.1016/j.ijcard.2017.02.027 (2017)

2) Fumagalli, C. et al. Comparative analysis of multiple leads smartphone electrocardiograph (D-Heart®) versus standard 12-leads electrocardiograph in patients with Hypertrophic Cardiomyopathy. *Italian Society of Cardiology*. In press (2017)

3) Maurizi, N. et al. Validation of a smartphone-camera based software for the identification of electrodes location on human chest. *Italian Society of Cardiology*. In press (2017)