

C.A.R.E Device

Cardiac Alert Response Equipment

Team 3



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C.A.R.E Device

Cardiac Alert Response Equipment

This device is a signal processing unit for a means of quick, accurate detection of heart defects to be stored next to defibrillators and within hospitals.

Key Features Include:

- 1. EKG digital signal processing for Pacemaker Detection**
- 2. Portable with easy accessibility in life threatening situations**
- 3. Rechargeable battery for long-time dependable storage**

Market : North America due to Medical Codes. Standards, & Compliances within Public Institutions, Elderly Care Facilities, Day care, or any healthcare institution or placing that could utilize a defib

Key Requirements

Cost :

1. Sale Price : 395\$
2. Component Cost : 100\$
3. Assembly & Testing : 100\$

Environment :

1. Indoor/Outdoor with mobility
2. Operating Temperature Range : -30 -- 140° Fahrenheit
3. Operating Humidity Range : 0 - 100

Power Input(s):

1. Residential AC Power : 100-130 VAC at 15-20 Amps Max
2. Battery Power : 1 LiPo battery 7.4v, 2300 mah
3. No other power inputs

Major Functions:

1. On/Off, Electrical Impulse Measurement . Display, Charging
2. Resolution 800x480, 1-2mV electrical signals

Block Diagram

