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 -- 140º 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