University of Connecticut

Electrical and Computer Engineering

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Remote Controlled Scoreboard

Project Specifications

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Introduction and Overview

The remote controlled scoreboard is for athletes and fans to view during a sporting event. By using a wireless remote control, officials for the game can accurately keep score and time and also be able to display this information for everyone to see during a game. The remote and scoreboard interface should be easy to use and understand, as well as easy to set up and transport. The two major parts of the product, the remote and the scoreboard, are specified in greater detail below.

The scoreboard is to be general enough to be used for multi-sports, for instance baseball, soccer, and football. The scoreboard will display aspects such as, but not limited to, the time left in a period or game, the home and away scores, and the current period as well. It will display such aspects using a method that can be visible to spectators and athletes in most settings of ambient light. The remote control in which to change the values on the scoreboard should also be an interface that is easy enough to use and operate. It will include buttons to operate all aspects of the scoreboard from a remote location, no more than a maximum of 500 feet away. This remote control scoreboard setup is unique to the industry because currently, there is not a wireless portable multi-sport scoreboard that costs less than $1000.

Specifications

Scoreboard

Maximum Size	5’W x 4’H x 12”D
Minimum # of Numeric Displays	9, each display from 0-9
Minimum Numeric Display Size	16”W x 16”H
Maximum Weight	100 lbs
Illumination Method	Visible in most settings of ambient light
Minimum Visibility Distance	300'
Illumination Color	Red
Maximum Power Source Needed	12V DC rechargeable batteries
Minimum Length of Use	5 hours on one charge

Remote Control

Maximum Size	12"W x 16"H x 5"D
Maximum Weight	10 lbs
Maximum Power Source Needed	9V DC batteries
Maximum Range of Use	500' (Indoors or out)
Battery Life	1 - 2 Years

Remote Control and Scoreboard

Durability	Resistant to normal weather conditions
Temperature Range	Temp from 0° - 110°F

Scoreboard Layout: