



Robotic Hospital Logistic Cart

Introduction

The Robotic Hospital Logistic Cart is a remotely controlled robotic cart which works on an easy-to-use sliding finger gesture interface based on Android mobile device with Bluetooth connection support for wireless maneuvering. Android App is the cost-effective alternative of expensive wireless joystick controllers. Its modular configuration provides option of easy customization to multiple applications

Features

- Touch contact using finger over the drive screen activates the motion control, and maintaining finger contact enables full driving capabilities by sliding similar to physical joystick, including turning, veering, and spinning around.
- It is based on Android Application and the intuitive virtual joystick-based drive screen with speed control
- The system is equipped with electronic brakes and capable to drive motorized wheels simultaneously in differential mode to achieve uniform movement in any direction.
- Multiple attachments and modular design provides multiple options of its usage in hospital, office, indoor and outdoor environments where social distancing is required with option of controlling the cart from a distance of 100 feet and also monitoring the activities through cart mounted camera.

Specifications

- Motion Control : Differential
- DriveInterface : Gesture based touch control
- Wireless Control Range : Up to 100 feet
- Battery : 2x12 Volt DC
- Drive Range : 4 Hrs. (Typical)
- Software Interface : Android 5.1 or Higher
- Communication : Serial Bluetooth (wireless)
- Speed : 5 Kmph (Customizable)
- Speed Levels : 04
- Loading Capacity : 70 Kg
- Gradeability permitted: 10 Degrees

Applications

- It is useful to safeguard front-line healthcare workers dealing with infectious patients during food items distribution as well as for packages handling from a distance.

Status

- Technology prototype ready

Robotic Hospital Logistic Cart with modular configurations

