

DFROBOT

A4WD Mobile Robot with encoder

Product Code: ROB0025



Introduction

The DFRobot 4WD Arduino-Compatible Platform w/Encoders is widely used on the world's self-developed control panel platform. This drive method has a strong obstacle and climbing ability with high strength aluminum alloy body. It features thick acrylic material to eliminate the heavy, fragile thin acrylic material defects. The powerful motor performance, flexible and rapid movement is especially suitable for outdoor grass, gravel, sand, or slope pavement.

It is very useful for robot competitions and other research projects. It's car mounting holes is compatible with a variety of sensors. There is enough space within the car to install the battery. It is made with the consideration to facilitate the future expansion of PTZ cameras or more degrees of freedom manipulator. This platform comes with two sets of encoder can be precise control of the car trip, and the closed-loop PID control.

Features

- Compatible with Hitec 311,422 servo and Pan/Tile Kit
- Compatible [GP2D12](#) sensor installation
- Infrared sensors switch installed
- Look for line sensor installation
- [URM37 ultrasonic sensor](#)
- Compatible with standard sensor bracket on the [HCR](#) and standard head bracket

Specification

- Voltage: +4.5 to 6V
- Current: 1200mA load
- Motor type: 130
- Rotational Speed: 10000 r / min
- Gearbox reduction ratio: 1:120
- Maximum speed: 68cm / s
- Wheel diameter: 65mm
- Dimensions: Length 230mm Width 185mm high 110mm

- Weight: 614 grams (without batteries)
- Maximum load: 800g

Documents

- [A Review for A4WD Mobile Robot](#)
- [Assembly tutorial](#) (Video)

Shipping List

- Body structural parts - 1 set
- High-quality rubber wheels - 4
- Micro Gear Motor - 4
- Encoder Kit - 1 set
- Power Switch - 1
- Charging port - 1
- Installation Line 1 above
- Cylinders - 4
- Mounting screw - 1 bag
- Infrared proximity switch mounting bracket - 3