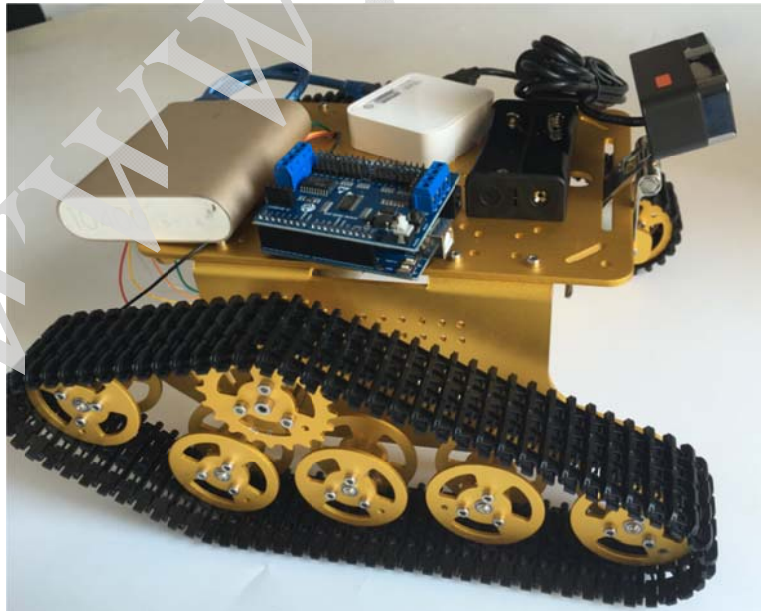




Doctors of Intelligence & Technology (DOIT)

Manual for Video car



08 Aug. 2016



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www.doit.am



Introduction

This manual is just used for the installation and use of video car, other type car is also used it. You can order it from the doit official shop:

http://www.smartarduino.com/search.php?searchKeyword=video&language_flag=en&Search=

1. Installation the tank chassis

<http://bbs.smartarduino.com/forumdisplay.php?fid=21>

Please visit the above link to read or download the document for the installation of tank chassis.

2. Parameters for parts

2.1 ESPduino development board

About the ESPduino, please see the following link.

<http://bbs.smartarduino.com/forumdisplay.php?fid=14>

In summary,

- (1) Install the ch340 drivers;
- (2) Install the Arduino IDE;
- (3) Download to the ESPduino board.

Note that, if you get the video car version, the board is already downloaded the video version program. If the general car control,



please visit the link to download the program:

<http://bbs.smartarduino.com/forumdisplay.php?fid=16>.

The control car source code can be download from the following.

<http://bbs.smartarduino.com/showthread.php?tid=2013>

2.2 2-way motor & 16-way servo servo

For the details, please visit the following link:

<http://bbs.smartarduino.com/forumdisplay.php?fid=23>

Note that, the working voltage is 6-16V if works together with ESPduino development board.

2.3 motor

We have two types of motor for choice:

(1) 12V version, but without hall sensor code disc. Please see the details from the following link:

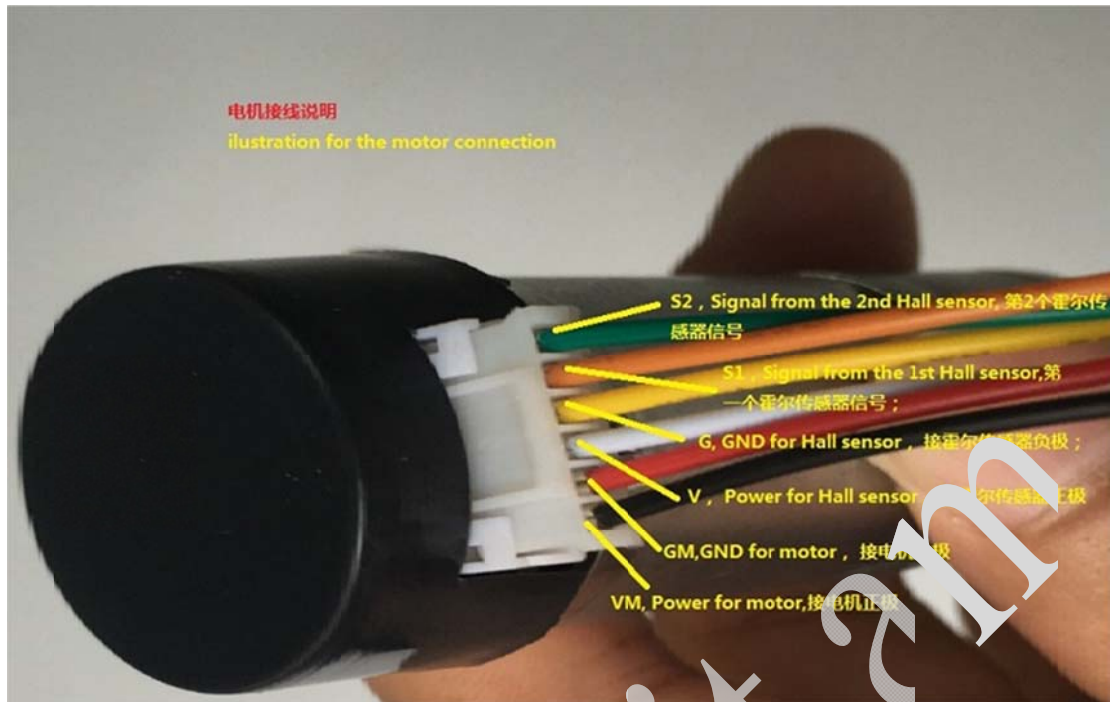
<http://www.smartarduino.com/view.php?id=95041>

(2) 9V version with hall sensor code disc, which can be used for the speed measure. Please visit the following link for the details.

<http://www.smartarduino.com/view.php?id=94537>

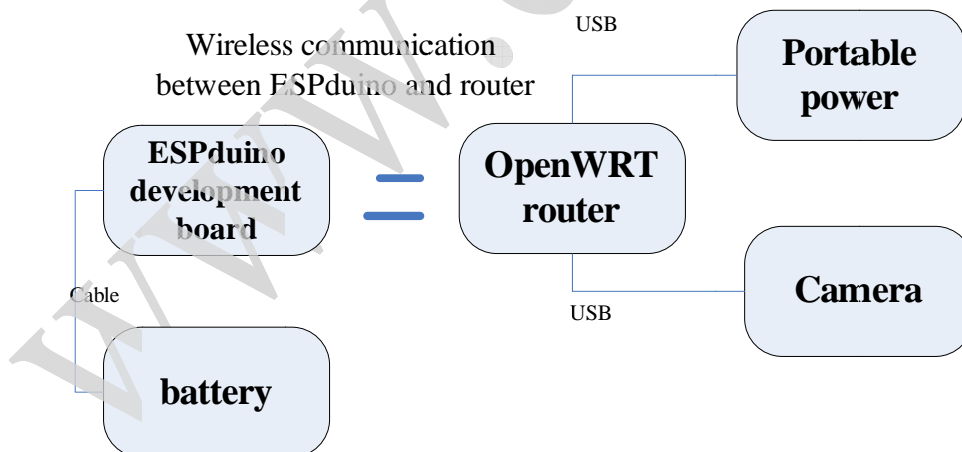
ALL the car kit can be get from the official site to get it from the following link:

http://www.smartarduino.com/search.php?searchKeyword=video&language_flag=en&Search=

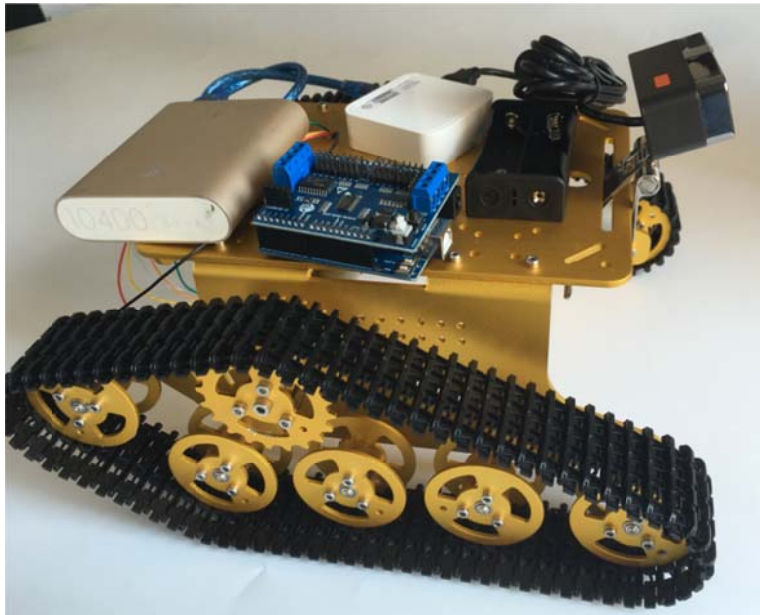


3. Connection

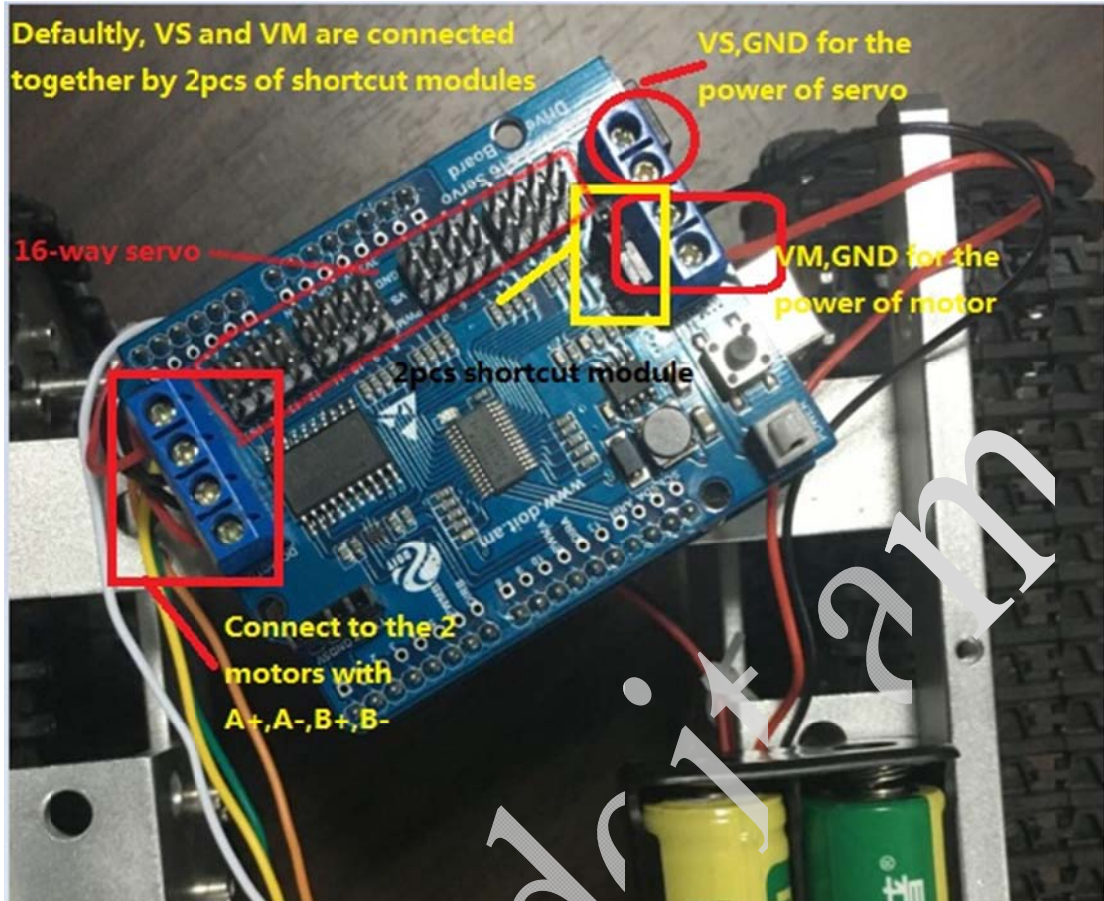
Please finish the connection by the following figure.



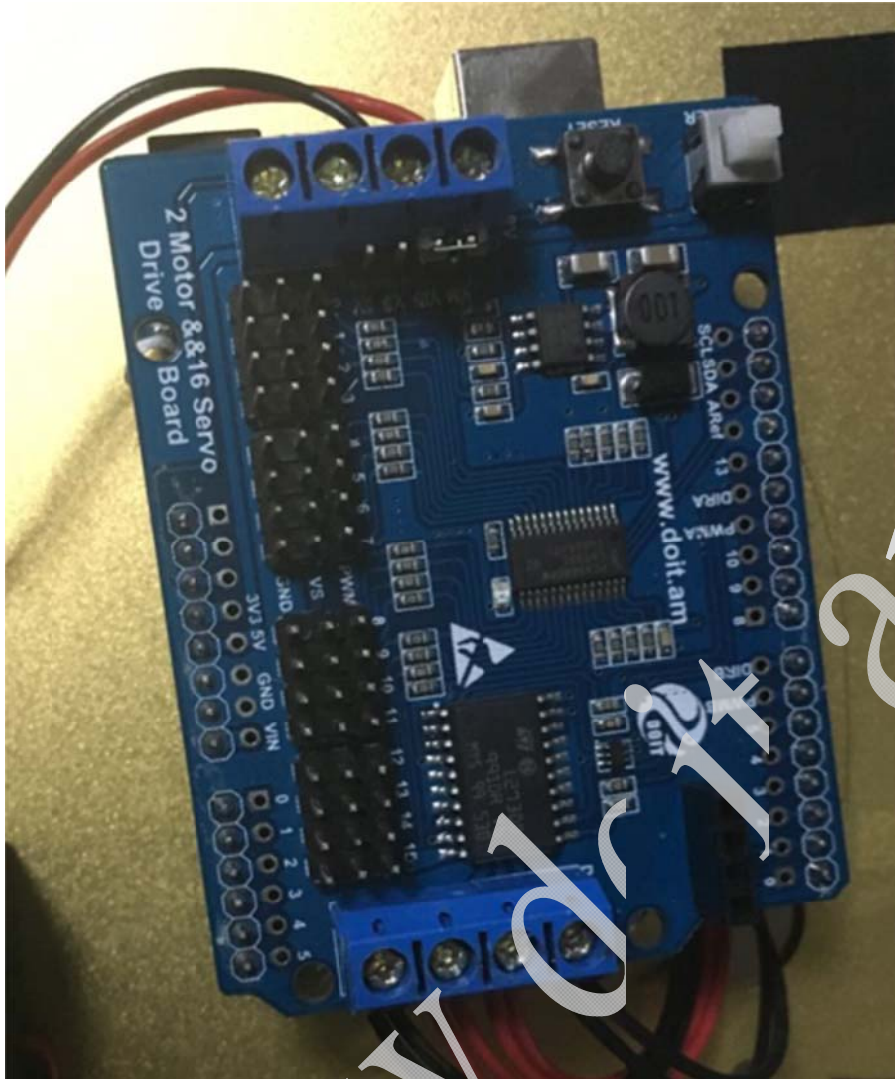
After install it based on the above figure, the real connection can be seen at the following Figure.



Where, the portable power providing 5V power is connected directly to the openwrt router, and then let the camera connect to the openwrt router. The communication is built up by the wifi connection between openwrt router and espduino kit. The battery box would be provided a 6-16v voltage for the ESPduino development kit. The connection can be seen at the following Figure.



2-way motor connection



4 motor connection

If has 4 motors, 2 pcs VM and 2pcs GND in the same side can be connected together. That is, the 2 motors in the same side can be viewed as one motor to connect. Other connection is the same as the 2 motors connection.

4. APP

<http://bbs.smartarduino.com/forumdisplay.php?fid=20>



When finish the installation, then install the APP in your phone from the above link.

5. Settings

Open the settings in your phone, and find the wifi setting. You can find a wifi named as doit_tank, click it, and input the initialized password (12345678), as shown in the following Figure.





6. Play and control the car

Open the APP, then you can control the car, and in your phone, you can see the video from the camera in the car.



7. Support and Service

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