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OSOYOO V2.1 Robot Car Lesson 8: Fighting Game

Post Time: 2020-05-12 18:05:07   Category: V2.1 Robot car kit

NOTE: ALL OSOYOO PRODUCTS FOR ARDUINO ARE THIRD PARTY BOARD WHICH IS FULLY COMPATI ARDUINO

OSOYOO V2.1 Robot Car for Arduino Lesson 8 : Fighting Game

▶

Authorized Online Retailers

Where to buy the set with 18650 batteriese and USB charger

Buy from OSOYOO	Buy from US	Buy from UK	Buy from DE	Buy from IT	Buy from FR	Buy from ES	
OSOYOO Store	BUY NOW	BUY NOW	BUY NOW	BUY NOW	BUY NOW	BUY NOW	

Buy the V2.1 Robot car without Battery and charger:

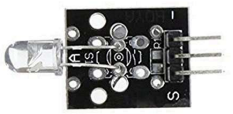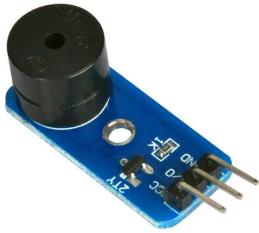| Buy from OSOYOO	Buy from US	Buy from UK	Buy from DE	Buy from IT	Buy from FR	Buy from ES	
OSOYOO Store	BUY NOW	BUY NOW	BUY NOW	BUY NOW	BUY NOW	BUY NOW	

Objective
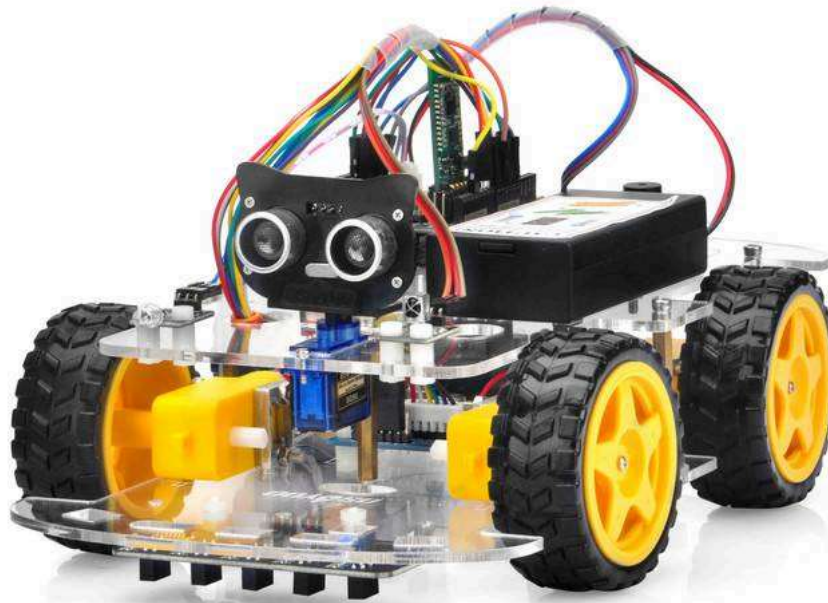
In this project, we will make robots dog-fighting game. We need two groups of Osoyoo Robot cars and each group has at robot car. Team A robots will Infrared signal as bullet to shoot at Team B robots and vice versa. IR Bullet from Team A will Team B robots and no harm to TEAM A. So does Team B bullet.

Players use Mobile APP in Lesson 7 to control their robots to kill enemy team robots as possible. You can complete and m sketch code in Lesson 7 and make sure motor connection is correct.

Parts and Devices

No.	Picture	Device	Qty.	Accessories	Link
1		IR receiver	1	M3 Plastic Screw x 2 M3 Plastic Nut x 2 M3 Plastic Pillar x 2	Click here to buy
2		IR transmitter	1	M3 Plastic Screw x 2 M3 Plastic Nut x 2 M3 Plastic Pillar x 2	Click here to buy
3		Buzzer Sensor Module	1	M3 Plastic Screw x 1 M3 Plastic Nut x 1 M3 Plastic Pillar x 1	Click here to buy

|				
4		20pin 15cm Female to Female Cable	1		Click here to buy
5		Hex Screwdriver	1		Click here to buy
6		M3 plastic screw	5		
7		M3 plastic pillar	5		
8		M3 plastic nut	5		

Hardware Installation

Step 1:This project needs at least two Osoyoo Robots. In each robot, Lesson 7 hardware installation must have been cor

Step 2: Install IR receiver (Lesson 2) and buzzer module (lesson 5) and add IR transmitter with 2pcs M3 plastic screws, p
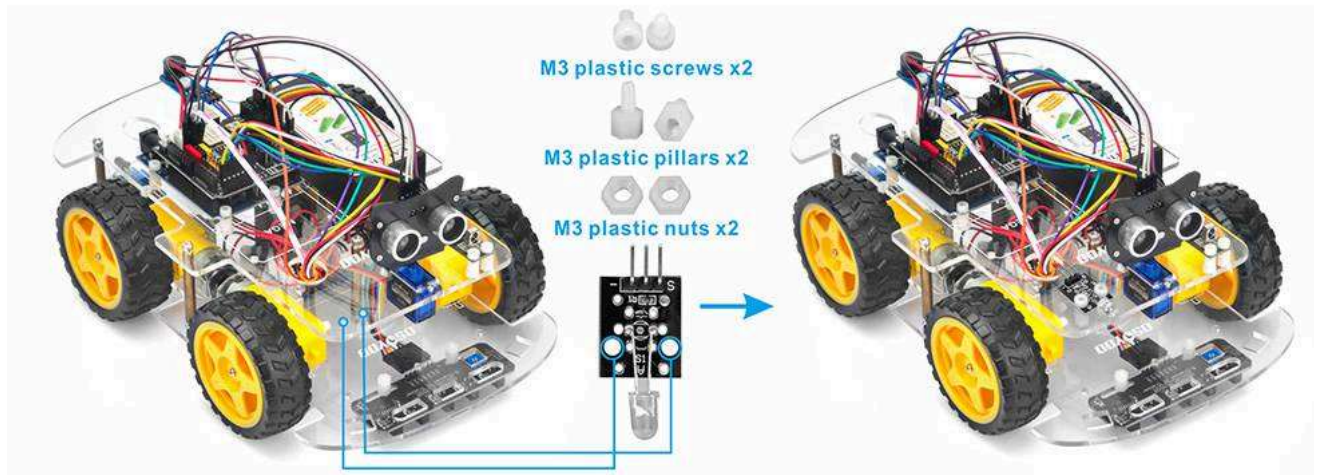
nuts as following:

Step 3: Connect IR receiver, IR transmitter and buzzer module with OSOYOO Uart WiFi shield V1.3 as following graph

OSOYOO Wifi Shield	IR Transmitter
GND	—/GND
5V	VCC
D3	S
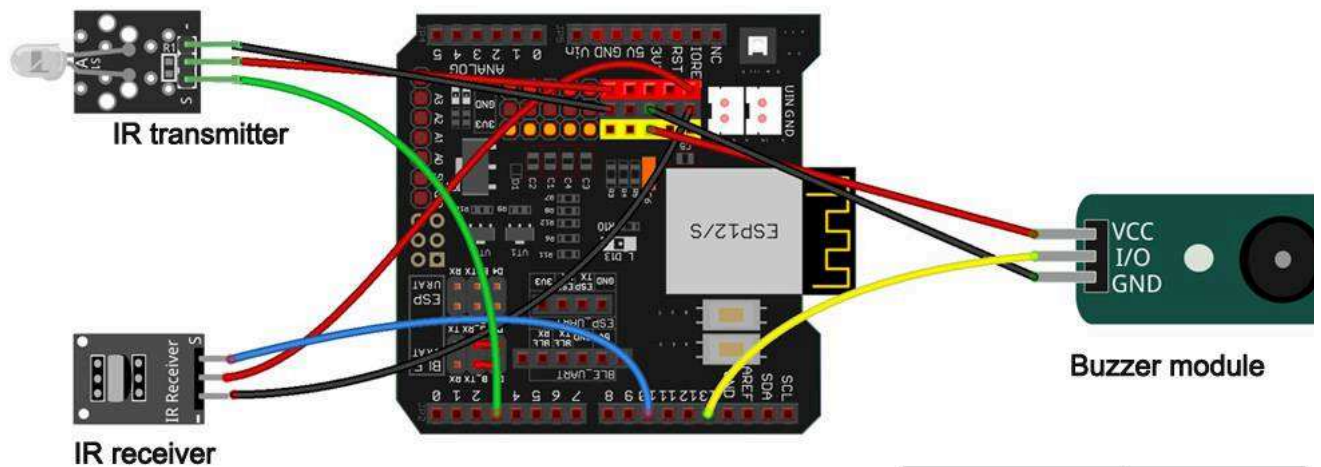
OSOYOO Wifi Shield	IR Receiver
GND	—/GND
5V	VCC
D10	S

OSOYOO Wifi Shield	Buzzer Module
GND	GND
3.3v	VCC
D13	I/O

Software Installation:

Open-source Arduino Software(IDE)		Download IDE here: https://www.arduino.cc/en/Main/Software?setlang=en

7 zip is a free zip utility that un-zips zip files	**7ZIP**	Download 7zip here for free https://www.7-zip.org/
OSOYOO imitation driving Robot APP	(icon)	search "**OSOYOO imitation driving**" in Google Play or Apple APP store (If you can not find this APP in Google Play, you can directly download the APP fro link: https://osoyoo.com/driver/v1car.apk)

Step 1: Download and install sketch code from v2smartcar-lesson8. Unzip this file, and you will see folders called v2smartca and v2smartcar-lesson8B

Step 2: Upload code "v2smartcar-lesson8A.ino" in v2smartcar-lesson8A folder for Team A robots and Upload code "v2smartcar-lesso v2smartcar-lesson8B folder for Team B robots

Step 3: If you have installed APP in Lesson 7, please skip this step. Otherwise go to Google Play and search the APP name "Osoyoo driving", and install the APP to your mobile phone (Note: If you can not find this APP in Google Play, you can directly download from following link: https://osoyoo.com/driver/v1car.apk)

Step 4: After install the APP, pair the HC-02 bluetooth module to your mobile phone, then open Osoyoo Imitation driving APP. You wil BTSearch list, click HC-02 device to connect the bluetooth device on your car.

Play the Fighting Game:

In your APP, click Engine Toggle icon, your robot car will start moving. Use your steering wheel, gear to change your car direction. Whe your enemy, click "**F1**" to trigger bullet against bullet. If your bullet hits enemy car, enemy car will freeze, buzzer and dead. If you are hi bullet, you car will freeze and your APP will show "dead".

PREVIOUS LESSON   **ROBOT CAR V2 HOME**

DownLoad Url :   osoyoo.com

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