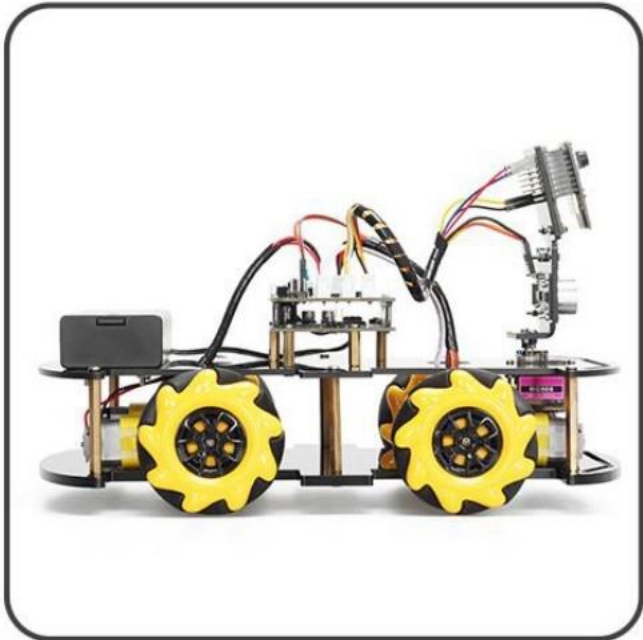
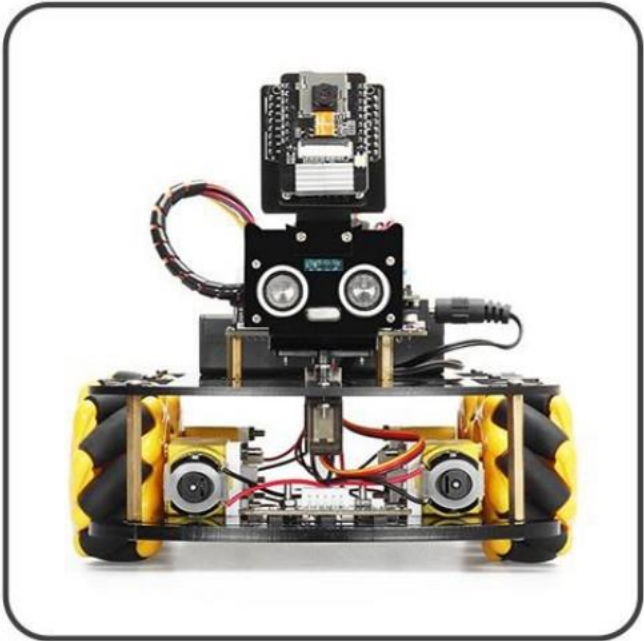
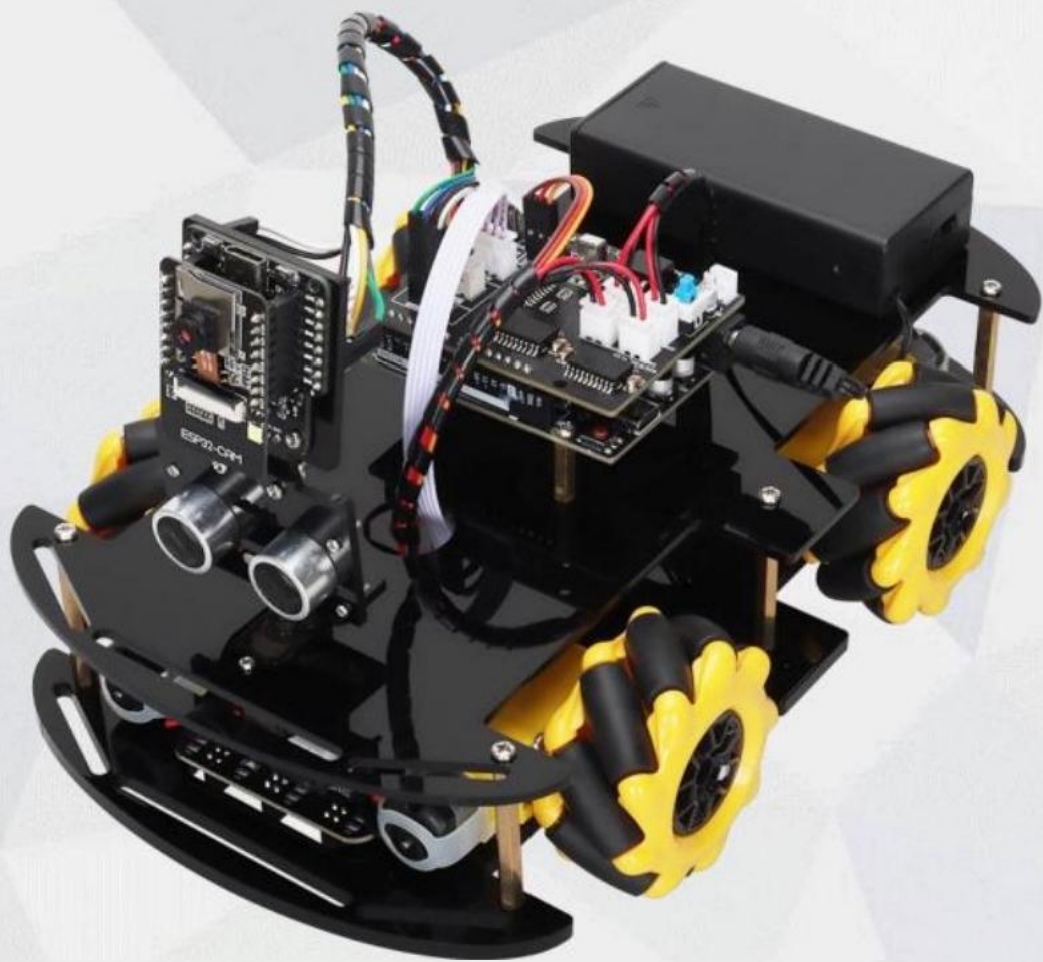




SP32 CAM Mecanum Wheel Kit

ZYC0076





Product performance parameters:

Working voltage:5v

Input voltage:7-12V

Maximum output current:2A

Maximum power consumption:25W(T=75°C)

Motor speed:5v 200rpm/min

Ultrasonic sensing angle:<15 degrees

Ultrasonic detection distance:2cm~400cm

Bluetooth remote control distance:10~50 meters

Servo motor angle range:0~180°10~360°

Features:

1.Multifunctional:Mecanum wheel multi-directional movement,three-way tracking,ultrasonic obstacle avoidance and following,camera image transmission function,WIFI control function;

2.The assembly difficulty is moderate:no need to weld the circuit,the terminal connector is easy to insert,and the assembly manual is

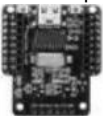
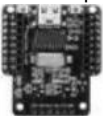
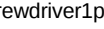
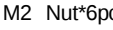
provided to complete the assembly clearly and efficiently;

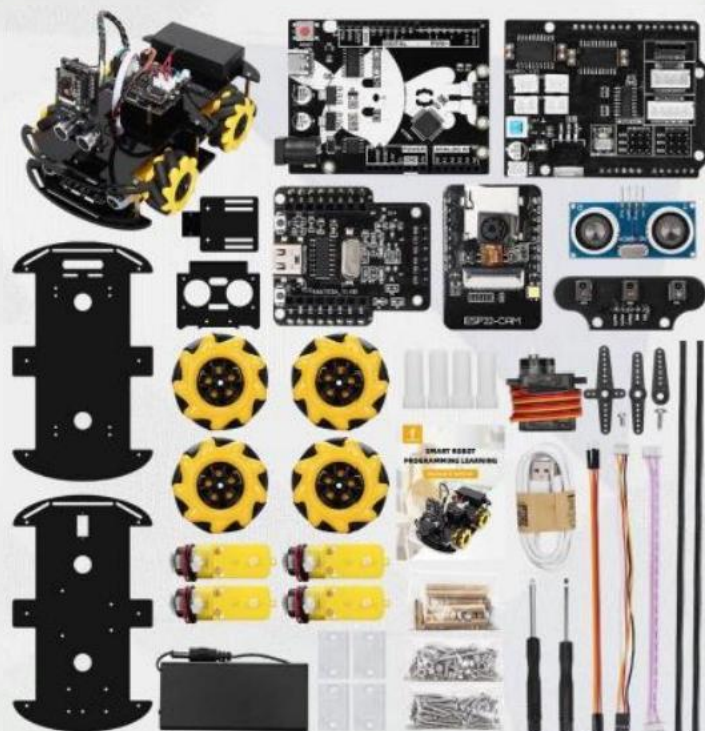
3.High strength:solid material bracket,thickened bottom plate,high-quality Mecanum wheels;

4.High extension:rich interfaces to expand other sensors and modules;

5.Basic programming:Arduino code based on C language;

6.Novel function:Combine Esp32 cam and arduino to realize multi-function wifi control.

			
top plate*1pc	Motor with 2P terminal wire*4pcs	ESP32 Cam Wifi bluetooth module development board, with OV2640 camera module*1pc	Male to female Dupont line 4P20CM*1pc
			
bottom plate*1pc	The McKnum Wheel (With coupling)*4pcs	ESP32 CAM expansion board*1pc	Red and white lines 5P double head reverse*1pc
			
Main control board*1pc	type-c line*1pc	Phillips screwdriver1pc	4P with terminal Dupont wire*1pc
			
Expansion board#1pc	M3*30 round head screw*8pcs	Servo*1pc	battery pack*1pc
			
	M3 Nut*22pcs	Tracking module*1pc	Ultrasonic bracket*1pc
			
	M2 Nut*6pcs	ESP32-CAM bracket*1pc	Ultrasonic module*1pc
			
	M1.6 Nut*4pcs		
			
	M3*40 Copper column*6pcs		
			
	M3*15 Copper column*4pcs		
			
	Motor frame*4pcs		



Product Weight: 970g

	 Basic Kit ↓	 Ultimate Kit ↓
ProductType	ZYC0024	ZYC0076
Programming	Arduino	Arduino
ESP32CAM BoardComponent	✓	✓
APP (WebsitePage)	✓	✓
Manual Instructions	✓	✓
Followingand avofdingobstacles	X	✓
Tracking- BlackLine	X	✓
Tscinbuny Malnboard	X	✓
Development Board	X	

Function

Introduction

Automatic obstacle
avoidance mode

It will automatically move forward, and when it detects an obstacle ahead it will automatically avoid it and continue moving forward.

Sonic
follow mode

Ultrasonic waves are used to detect whether the distance ahead is within the currently set distance range for follow-up movement.

Infrared
tracking mode

When the infrared tracking system detects a black line, it will move along the black line.

wifi camera
mode

Through the web APP control switching different functions, the camera data can be transmitted in real time.

Target customer group

8

Maker(Programming organization)

The purpose of purchase is to use our products to realize some of his own DIY ideas



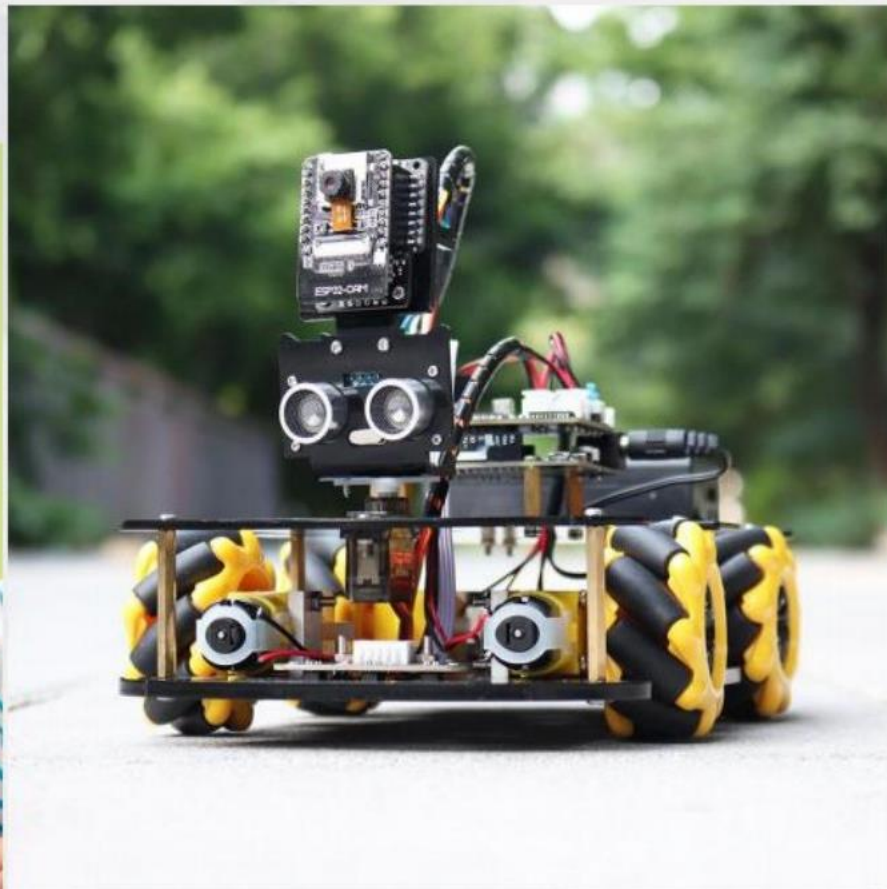
student

By purchasing our products,you can learnArdulno programming knowledge

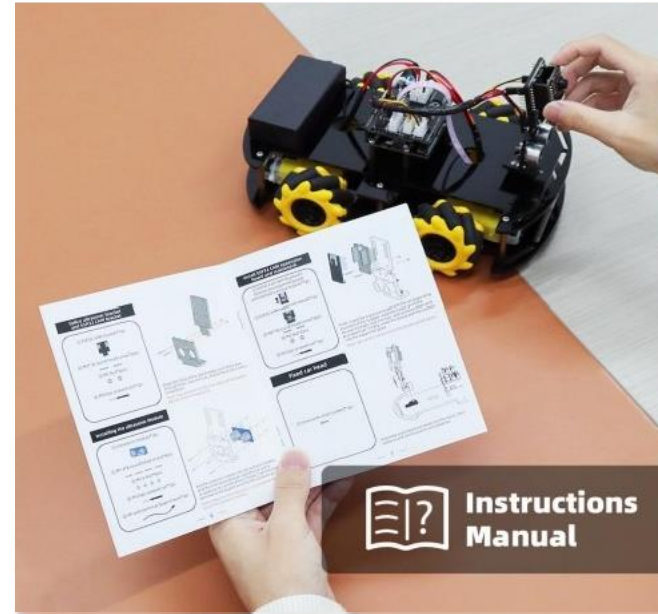
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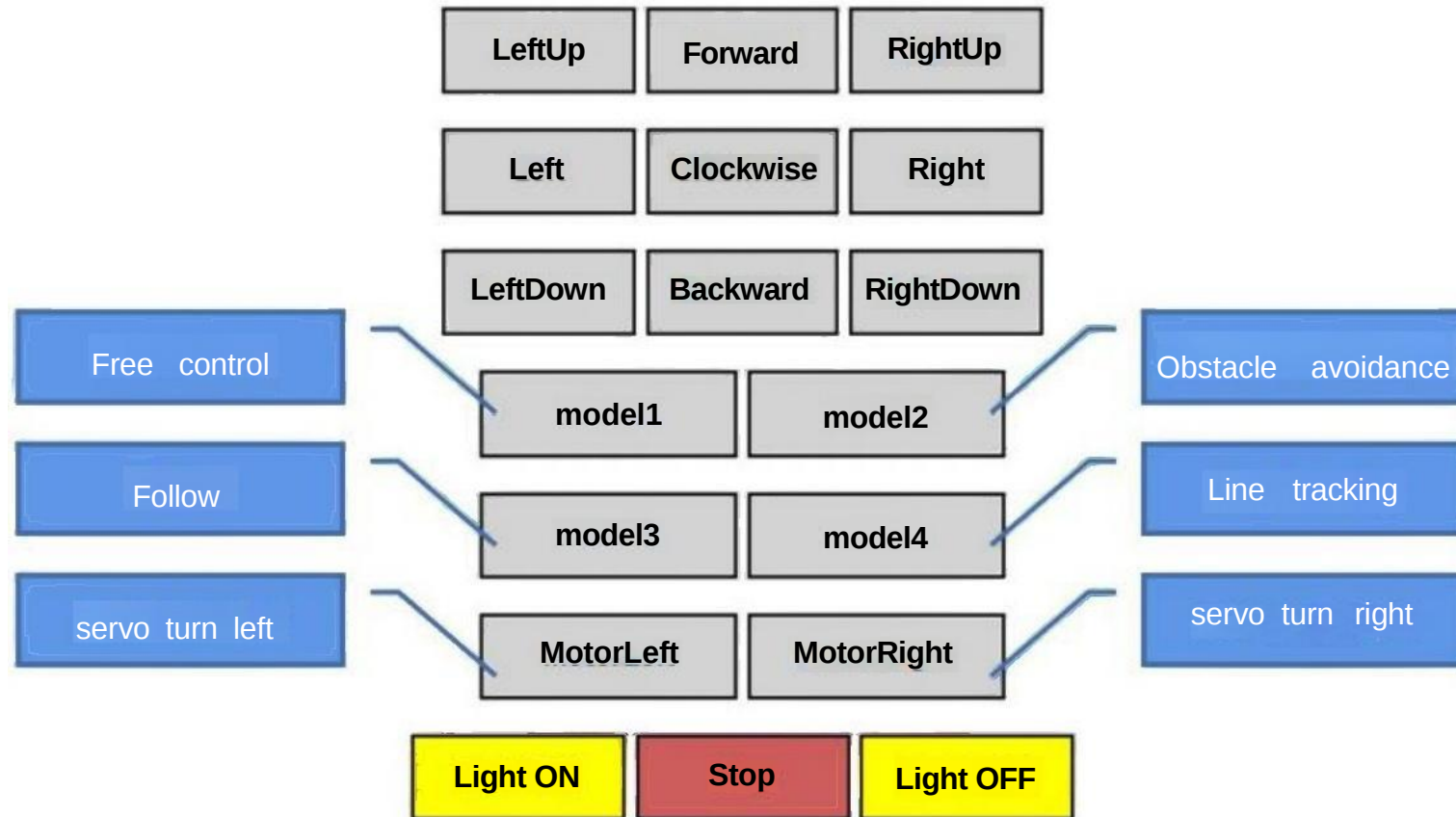


Usage scenarios



Function display scene





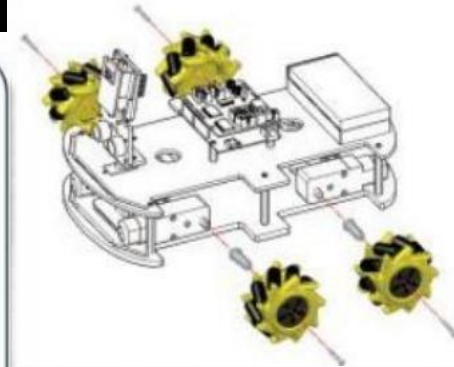
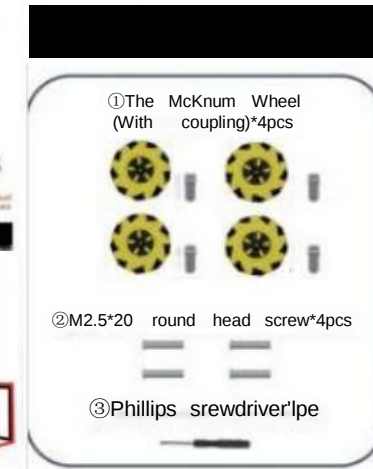
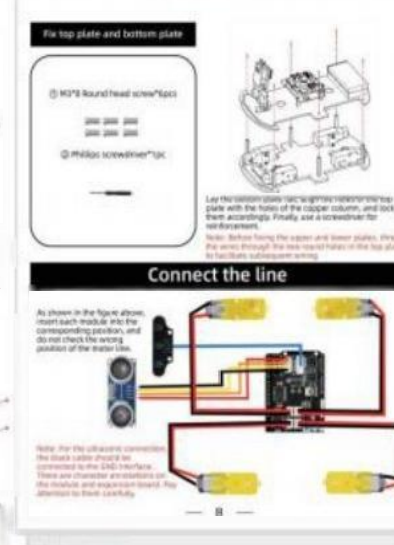
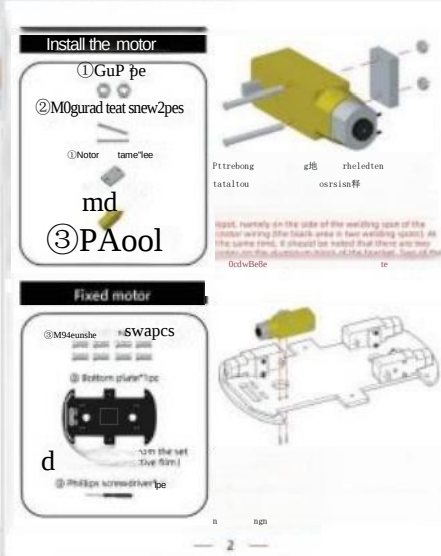


ZHIYI Zhiyi

Tutorial part display

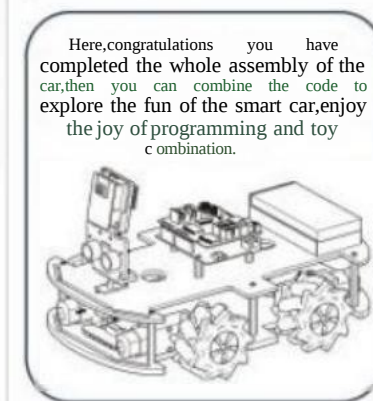
SMART ROBOT PROGRAMMING LEARNING

Manual & Tutorial



First install the coupling to the corresponding position of the motor, and then align the wheel with it. Install it, lock the screw, and finally reinforce with a screwdriver.
Note: Do not insert the Bluetooth module backwards.

The installation is complete



- 0_Assembly_Robot
- 1_Arduino software
- 2_Library S
- 3_Tutorial document
- 4_Arduino_Code
- 5_datasheet





ZHIYI Zhiyi

Feature introduction

1

The ESP32CAM camera main control board and the TSCINBUNY UNO control board are combined with the functionally integrated Mecanum wheel multi-function expansion board to produce an intelligent vehicle control system with enhanced product performance and stability.

2

Provides a complete tutorial manual and related source code, based on Arduino development, with rich learning resources;

3

DIY assembly and construction can cultivate children's hands-on ability.

4

Product has diversified functions and high playability.



The End

Thanks For Your Attention

