

AI Deep Learning Robot Car

1. Key Properties

Raspberry PI4B 2GB 、4GB / Jetson Nano

720P HD USB Camera

AI Deep Learning

Self-Driving

Input Voltage 12.6 V



2. Features

Four-wheel drive	Robot car used four-wheel driving, capable of rotating 360 degrees and high dexterity.
WIFI wireless remote control	The robot car will establish WiFi hotspot after power on. Mobile phones and tablets can be connected to WIFI and controlled through APP.
Real-time video transmission	Robot car transmits the real-time images taken through camera to APP and computer software through WiFi.
Self-Driving	Provide Self-driving function based on Google's TensorFlow deep learning framework.

3. Specifications

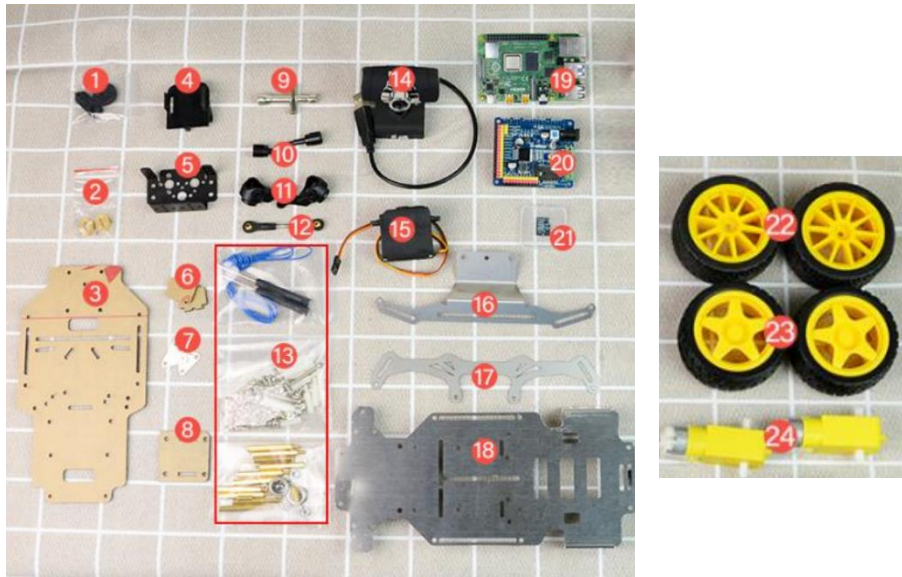
Robot Car Body Specification	
Dimension	180*300*180mm
Weight	900g
Material	304 stainless steel
Driving Mode	4-Wheel Drive
Remote Control	IOS/Android APP、 PC Software
Motherboard Specification	
Model	Raspberry PI 4B
Memory	2GB or 4GB LPDDR4 (depending on model)
Communication Interface	I2C, Serial Port (UART), SSH
Programming Language	Python
TT Motor Specification	
Dimensions	70*22*18mm
Weight	50g
Working Voltage	3~6V
Rotation Range	180°

Reduction Ratio	48:1
Noise	<65db
Servo Specification	
Model	DS-S013
Rotation Range	180°
Maximum Radius	310mm (Gripper closed)

4. Package List

The robot car is shipped in an unassembled state. Please refer to the attached tutorial for the assembly method, The package list as follow:

Item	Accessories	Quantity
1	Servo Disc	1
2	Hexagon Socket	1
3	Car Body	1
4	PTZ Bracket	1
5	Multi-Function Bracket*1	1
6	Camera Holder A	1
7	Turning Disc	2
8	Camera hHolder B	1
9	Phillips Sleeve	1
10	Steering Structure A	1
11	Steering Structure B	1
12	Long/Short Lever	4
13	Hardware Package	1
14	Camera	1
15	Servo	1
16	Front Bezel	1
17	Tail Wing	1
18	Chassis	1
19	Raspberry PI 4B	1
20	Driver Board	1
21	16G SD Card	1
22	Steering Wheel*1	1
23	TT Wheels	4
24	TT Motor	1



*note: 1.The product does not contain lithium batteries.
2.The robot car is suitable for 12.6V lithium battery.

5. Product Document

Provide paper books, electronic files and source code to assist learning. Provide supporting training textbooks and courses, covering from getting started with Raspberry Pi to fully grasping IoT development and artificial intelligence technology. Teaching features include: Start with assembly, remote control operation, environment construction, basic courses and advanced development, etc., and support secondary development.