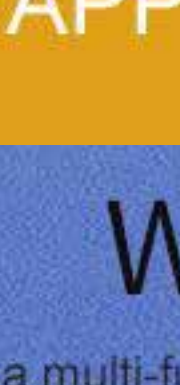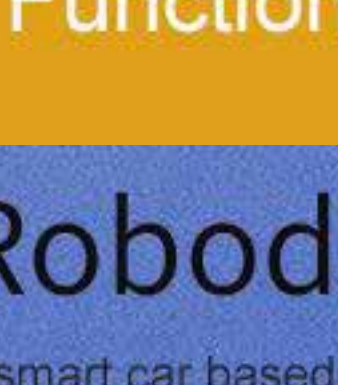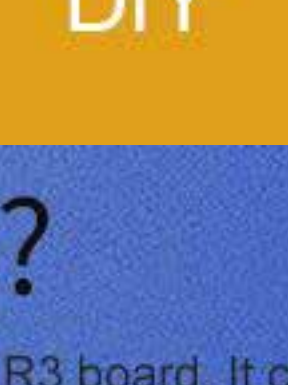# ROBODUINO
Smart robot car
STEAM

Code STEAM Course

APP Function DIY

What's Roboduino?

Roboduino is a multi-function four-wheel smart car based on the UNO R3 board. It can complete various interesting functions such as tracking, intelligent obstacle avoidance, FPV, and colorful light conversion. Easy to assemble, suitable for people of all ages to learn to use.
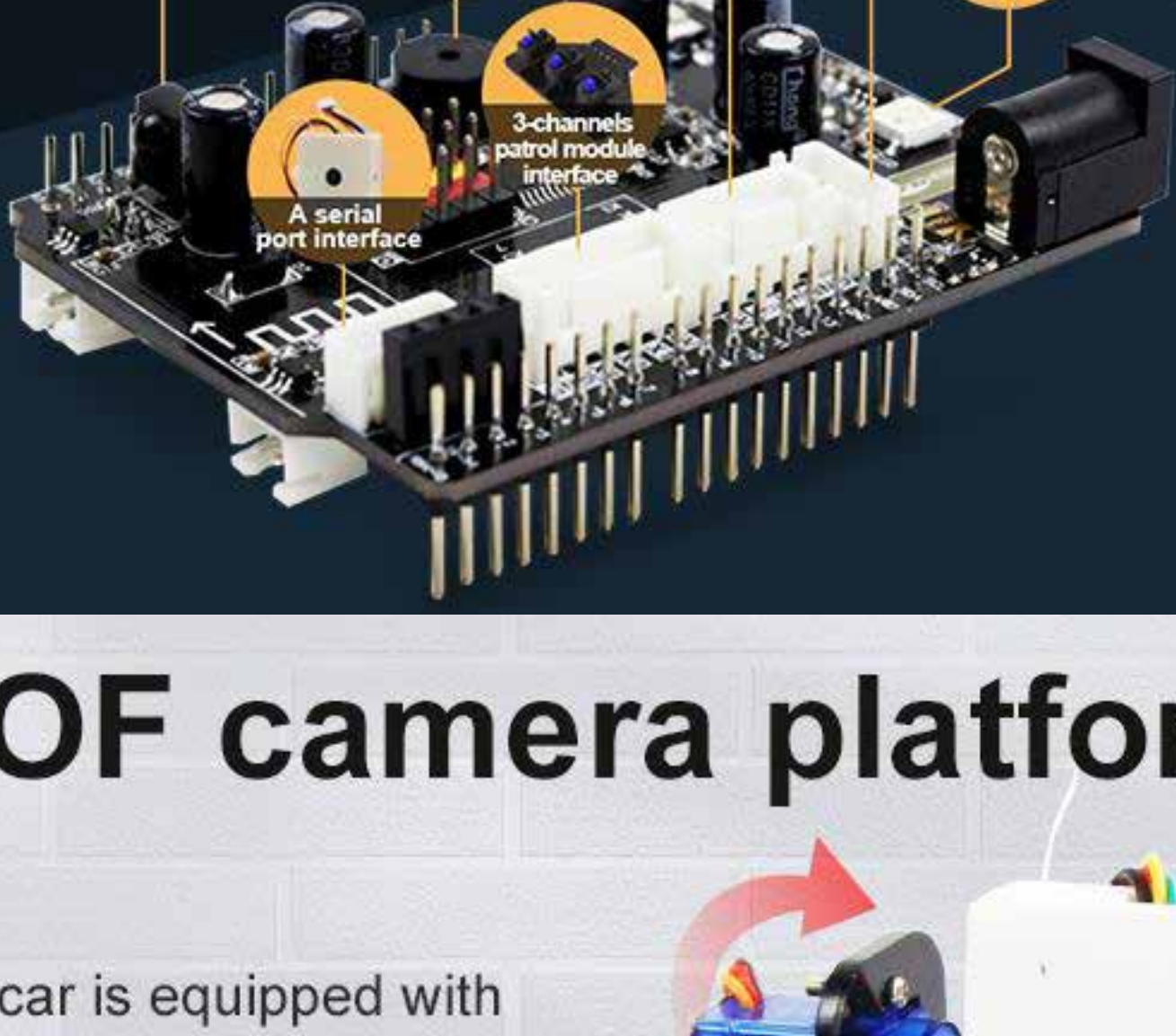
With UNO R3 controller

Equipped with Arduino UNO controller, it is reliable in quality, stable in performance and compatible with official Arduino IDE program. It is suitable for all ages to learn and use.
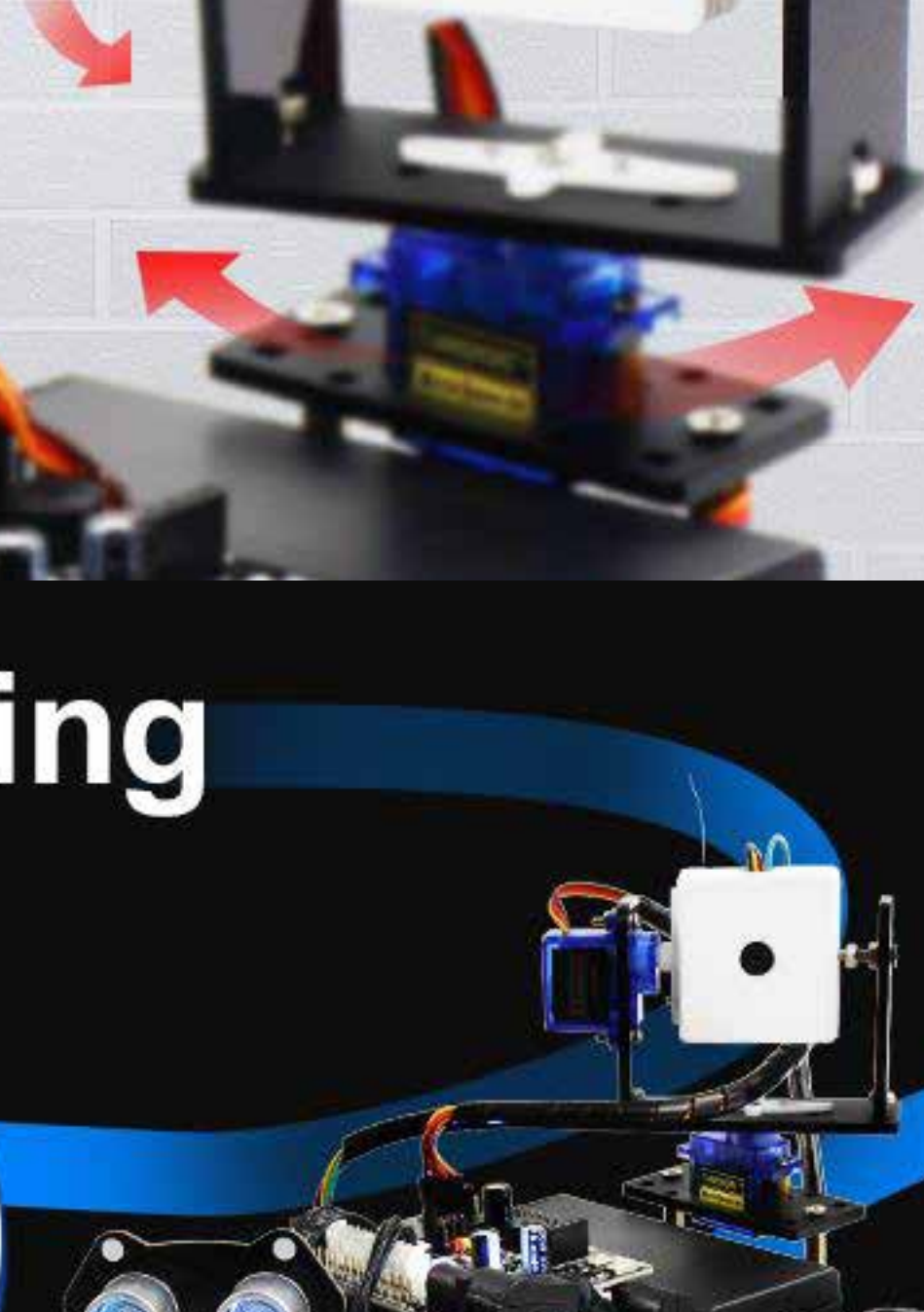
ICSP interface
ATmega 328P-AU
DREF standby port
Power interface
14 digital port (6 PWM output)
ATmega16U2 USB transition chip
USB interface
Inserted 16MHZ XTL
Reset line
A1 mega16 I2C channel analog port

Powerful expansion board

Infrared anti-drop interface
IR interface
LCD interface
USB interface
Infrared tracking interface
Ultrasonic interface

2 DOF camera platform

Roboduino smart car is equipped with a WIFI camera platform. Connected to the mobile phone APP, it can control the platform to rotate about 180 up and down, and watch the moving picture of the car through the APP.
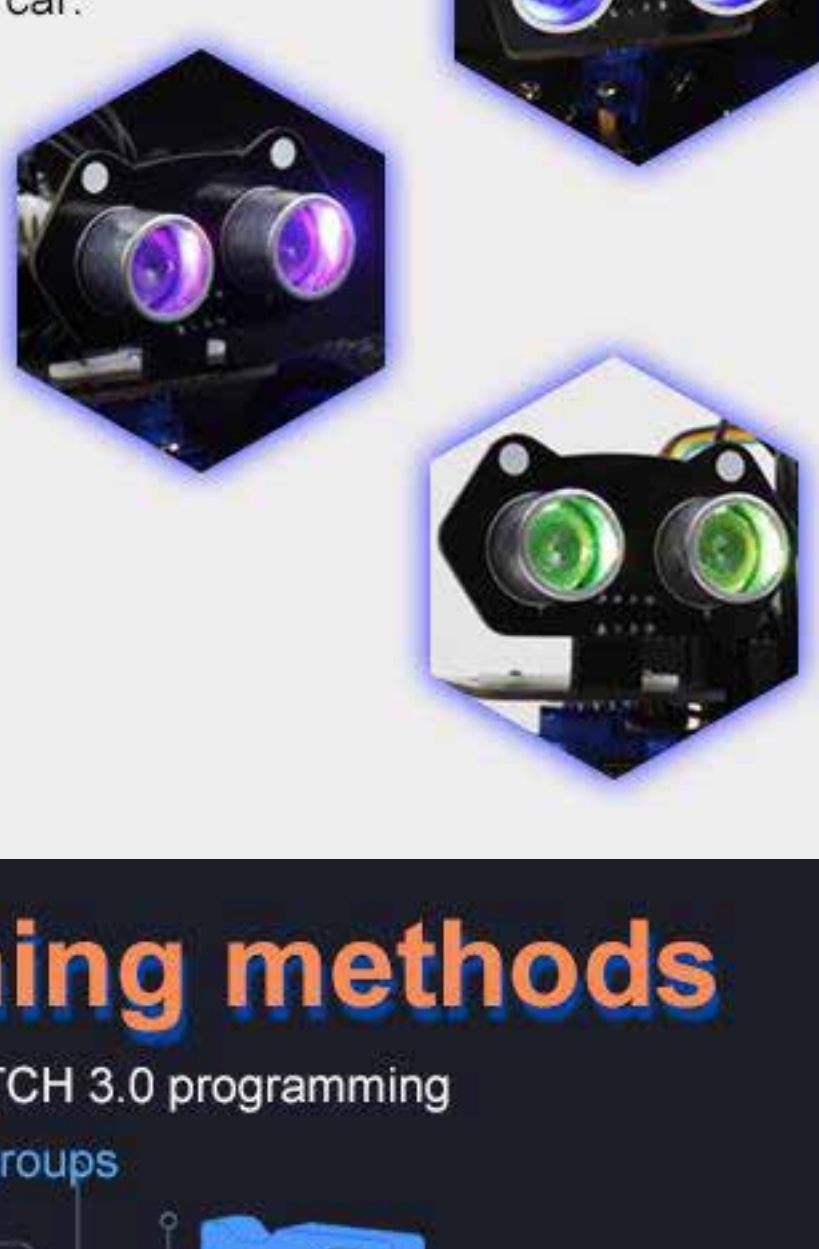
Tracking

Roboduino is equipped with a three-way line sensor, which uses analog output, and can be adapted to multi-complex environment inspection lines by debugging program parameters.

Luminescence/detection 2in1

The car is equipped with a luminescent ultrasonic module, which can be programmed to emit different light effects without affecting the range detection. Just like the big luminous eyes of the car.

Multiple programming methods

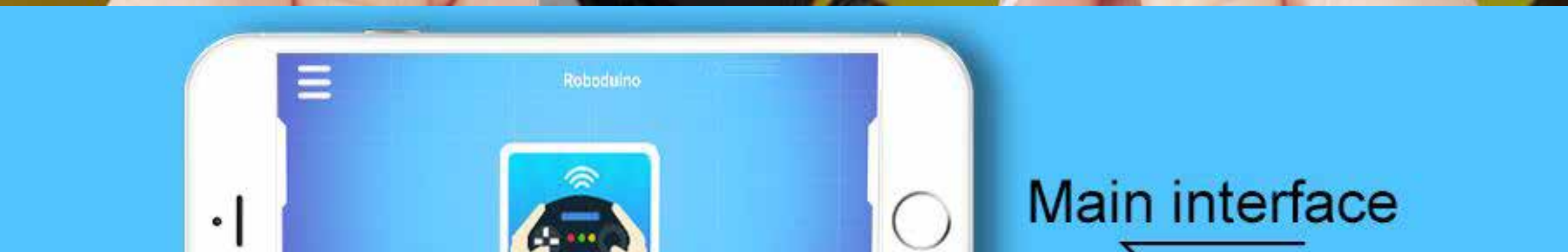ARDUINO IDE (C++ language) /SCRATCH 3.0 programming
Applicable to multiage groups

ARDUINO IDE
SCRATCH IDE
HTML

UNO IDE Helloblock

APP control

Mobile phone APP remote control, supporting iOS and Android
(Please download Android APK in Yahboom iPhone user research " YahboomRobot " in App Store)

Roboduino

Main interface

Control interface

DATA

Address : www.yahboom.net/study/Roboduino

1.Pirot Trial and APK
1.Preparation before class
2.Basic course
3.Expand course
4.Scratch course
5.Battery and charging

6.Manual
7.Installation Video
Hardware interface manual
Hardware interface manual
ReadMe
ReadMe

DETAIL DISPLAY

SPECIFICATION PARAMETER

162mm
148mm
205mm