

Lesson 5 Bluetooth Car

Main points

In the previous course, we learned how to make these components on the car work alone.

This is good, but not enough. In this lesson, we will do something cooler, put all these features into a single application, and do more DIY things.

First, Learning :

Learn how to use Bluetooth modules and Bluetooth APP

Learn how to control cars via Bluetooth

Write a program to implement this function

Second, Preparations:

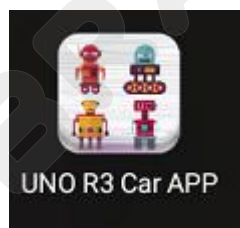
Smart car

USB cable

Bluetooth module

smart phone (Android)

UNO R3 CAR APP



1. Bluetooth module

The Bluetooth is a wireless technology standard for exchanging data between fixed and mobile devices over short distances using short-wave UHF radio waves in the industrial, scientific, and medical radio bands (2.400 to 2.485 GHz), and building personal area networks (PANs). There are also RF protocols such as ZigBee and Wi-Fi.



In OKYSTAT Car Kit, we use the Bluetooth module model "HC-05", it can send serial data to other devices via Bluetooth.



Introduction to Bluetooth APP

Before you begin, connect the HC-05 Bluetooth module to the expansion board and turn on the power supply.

Step 1: install the application.

You can contact our customer service on our website to download the latest version of the "OKYSTAR CAR" application.

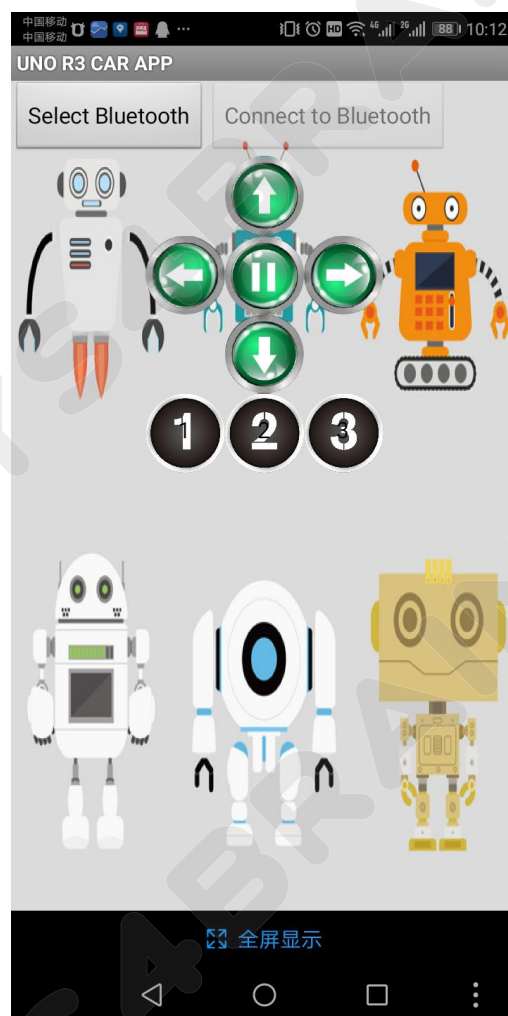
Application settings



First of all, turn on the Bluetooth function of the mobile phone. Open the "OKYSTAR CAR" application.



Open the "OKYSTAR CAR" application.



Note: The APP operation interface number 1 is the car tracking mode. The number 2 is the ultrasonic obstacle avoidance mode, the number 3 is the music mode, and the car can also be controlled by the infrared remote controller.

Infrared remote control music mode button "0"

