

## **RB-Dfr-587**

### **MiniQ 4WD Cross Country Mobile Platform**



Newly upgraded 4WD MiniQ mobile platform is especially designed for education/learning purposes. It comes fully assembled and all you need is a PC with Arduino IDE and 4xAA battery. This alternative version of MiniQ 4WD robot provides higher ground clearance (25mm instead of 9mm), bigger approach angle and improved off-road capability in complex terrains. The mobile robot comes with Arduino Leonardo controller (ATmega32u4) and also integrates modules such as RGB LED, photosensitive diode, infrared transmitters, infrared receivers, light sensors, additional buttons and buzzer.

Along with this upgraded MiniQ 4WD kit, 8 lessons have been offered for beginners, from entry-level to line-following, obstacle avoidance, and remote control.

- lesson1. Get to Know Your Robot
- lesson2. Control Buzzer
- lesson3. Light Direction Indication
- lesson4. Line\_following
- lesson5. RGB LED
- lesson6. Obstacle Avoidance
- lesson7. Encoder
- lesson8. IR Remote Control

**MiniQ 4WD Cross Country is different from MiniQ 4WD at:**

- Higher ground clearance: from 9mm to 25mm
- Removing 5 line-following sensors on chassis

#### **Features**

- Improved off-road capability on a compact, flexible mobile robot platform
- Micro USB for download the code(bootloader: Leonardo)

- WS2812 RGB LED for controlling the color by only one pin
- Soft buttons for giving you more comfortable feeling
- Two Infrared transmitters and 1 infrared receiver for obstacle detection and avoidance.
- Also includes an IR remote control to easily control its features remotely

### **Specifications**

- Controller: Atmega32U4 (Arduino Leonardo)
- Power Supply: 4x AA batteries or Micro-USB
- Working Voltage: 4.5 to 6V
- Driving Mode: 4WD
- Max Speed: 79cm/s
- Size: 115x110x45mm

### **Includes**

- MiniQ 4WD Cross Country x1
- IR remote controller x1
- Micro USB Cable x1