



## AlphaBot2 - Roboter Bausatz für Raspberry Pi 3



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| Réf. d'article : | ABOT2-PI     |
| Hersteller:      | Waveshare    |
| EAN:             | 614961950474 |
| Herkunftsland:   | China        |
| Zolltarifnummer: | 84733020     |
| Gewicht:         | 0.47 kg      |

### Übersicht

This AlphaBot2 robot kit is designed to use with Raspberry Pi 3 Model B (not included). It features rich common robot functions including line tracking, obstacle avoiding, Bluetooth/infrared/WiFi remote control, video monitoring, etc.

Thanks to the highly integrated modular design, it is fairly easy to assemble by a snap, no soldering, no wiring. After a few minutes spent on hardware assembling, you're almost there, our open source demo codes is ready to help you get started fast.

### AlphaBot2 Features

AlphaBot2 employs a 2-layer structure to provide excellent stability and compatibility.

AlphaBot2-Base, the lower base chassis:

- 5-ch infrared sensor, analog output, combined with PID algorithm, stable line tracking
- Onboard modules like line tracking, obstacle avoiding, needs no messy wiring
- TB6612FNG dual H-bridge motor driver, compared with L298P, it's more efficient, more compact, and less heating
- N20 micro gear motor, with metal gears, low noise, high accuracy
- Onboard RGB LEDs, true color lighting, pretty cool

AlphaBot2-Pi, the upper adapter board for controller:

- LM2596 voltage regulator, provides the Pi with stable 5V power
- TLC1543 AD acquisition chip, allows the Pi to use analog sensors
- PCA9685 servo controller, make it more smoothly to rotate the pan head
- CP2102 UART converter, easy for controlling the Pi via UART

### Lieferumfang

- AlphaBot2-Pi (adapter board) x1



- AlphaBot2-Base (base chassis) x1
- RPi Camera (B) x1
- Micro SD Card 16GB x1
- Power adapter US standard 5V/2.5A USB output x1
- SG90 servo x2
- 2 DOF pan and tilt kit x1
- IR remote controller x1
- FC-20P cable 8cm x1
- USB type A plug to micro B plug cable x1
- 15PIN FFC 25cm x1
- AlphaBot2-Pi screws x1
- Micro SD Card Reader x1
- Screwdriver x1

**Note:** This product requires two 14500 batteries and a Raspberry Pi 3 to work, which are NOT included and should be purchased separately.

## Dokumentation / Downloads

- <http://www.waveshare.com/wiki/AlphaBot2>
- <http://www.waveshare.com/wiki/AlphaBot2-Pi>

## Weitere Bilder:



