

INTRODUCTION

With a celebrated reputation as an affordable, simple and fun-to-play DIY robot kit, the Insectbot breed has now evolved to its second generation: the Insectbot Hexa-An Arduino Based Walking [Robot Kit](#) For Kids.

Bigger than Bigger

The six-legged Insectbot Hexa is undoubtedly in a bigger body build than its ancestors: 15% larger in size and 20% heavier in weight. This, as a result, made Hexa the most powerful generation in Insectbot history: with three high quality 9g micro servos and four AAA batteries, Hexa walks steadfast no matter where it is.

Smarter than Ever

We've redesigned its code to make this robot smarter in motion, and has an improved capability in obstacle avoidance. However, it doesn't mean the codes are more difficult to read - you can still program your Insectbot with graphical language Ardublock, and spend some time tweaking it from head to toe. Improvisations and hackings are warmly welcomed - we'd love to see more diversified Insectbots!

A Brave Heart

The heart of Insectbot is "world's smallest Bluno", a.k.a. Beetle. Deriving its core notion from minimalism without compromising functionality, Bluno Beetle comes with Atmel Atmega328 @16MHz clock time and has expanded several interfaces: 4 digital pins and 4 Analog pins. To further make it user-friendly, it is compatible with Micro USB so that direct programming and testing is no longer a headache. Select "Arduino UNO (tools >board > Arduino UNO in Arduino IDE)", the ATmega328 comes preburned with a bootloader that allows you to upload any new code that is applicable to Arduino UNO.

How to Assemble the DFRobot Insectbot Hexa Robot? please watch the video.

Robot Insecto | kit de robot para caminar basado en Arduino para niños

DFRobot МУХА. Робот своими руками.

Tools Needed

- Soldering iron
- Scissors
- Screwdriver
- Pliers

Version Update: The new Insectbot Hexa V2 uses [Beetle BLE\(The smallest Arduino bluetooth 4.0\)](#) instead of Beetle, which supports wireless programming and communication. Explore much more possibilities with Bluetooth 4.0!

An apology: There is an error with images in the current edition of the instruction booklet. DFRobot would like to issue a sincere apology for this error and will ensure that it is fixed in the next publication of these instructions.

STEP4 : Insectbot Eyes 安装虫眼眼睛



[How to Control An Insectbot Remotely with Bluetooth Joystick](#)

APPLICATIONS

- Educational
- Weekend Projects
- Workshop
- Gift
- Hacking

DOCUMENTS

- [Assembly Manual \(Bluno Beetle Version\) V2](#)
- [Sample Code \(Bluno Beetle Version\)](#)
- [Assembly Manual \(Beetle Version\)](#)
- [Sample Code \(Beetle Version\)](#)
- [Servo block 3D model download](#)

SHIPPING LIST

- MCU module (Bluno Beetle+Bluno Beetle shield) x1

- 9g Micro Servo x3
- GP2Y0A21 IR range sensor x1
- IR sensor bracket x1
- 2xAA battery holder x2
- Components packages x1
- USB cable x1
- Assembly Manual x1