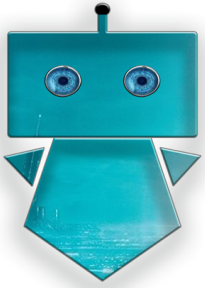




Yoi

ROBOTICS LABORATORY

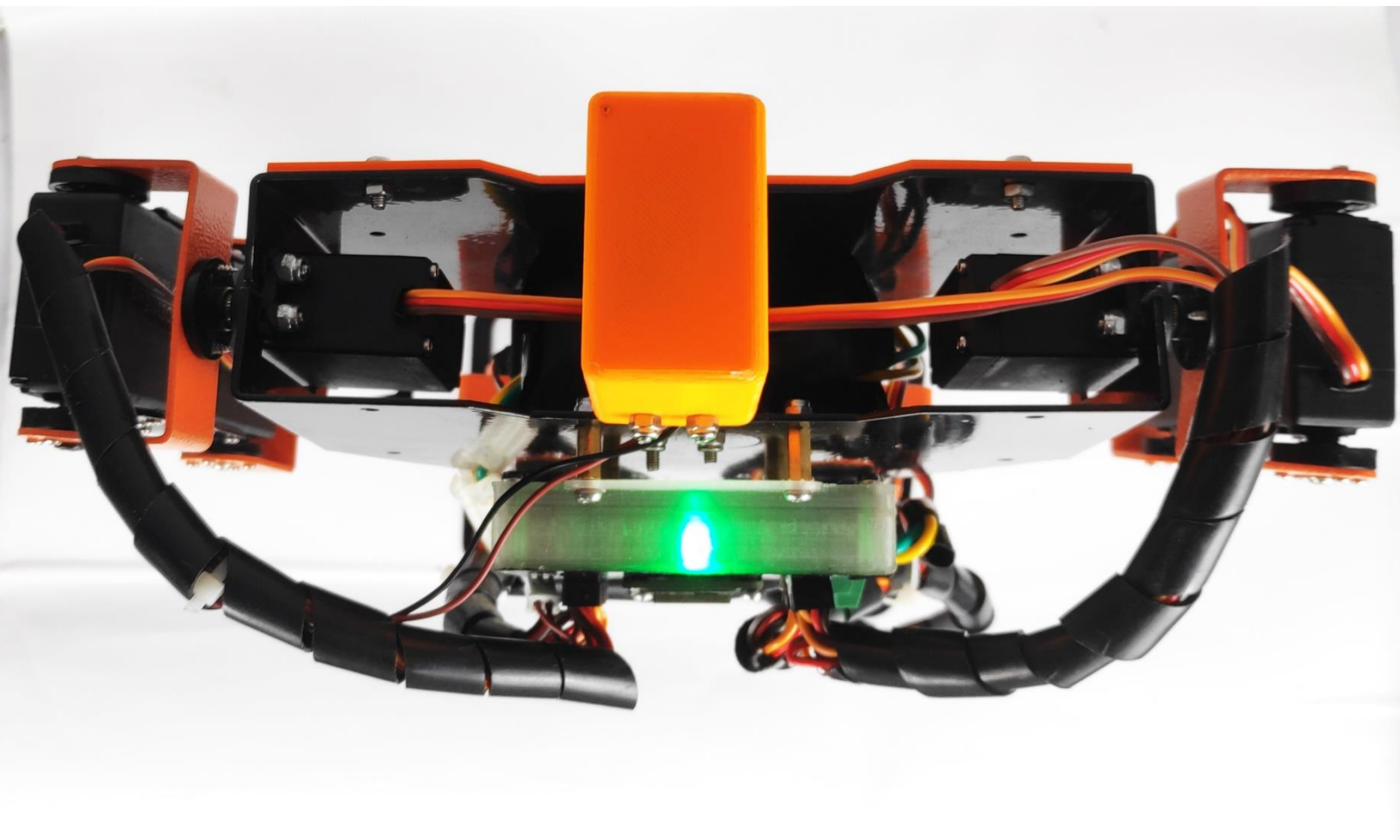
PRODUCT CATALOGUE



YOI
ROBOTICS LABORATORY



NINGEN
THE ROBOT



A humanoid robot is a robot resembling the human body in shape. The design may be for functional purposes. Humanoid robots are now used as research tools in several scientific areas.

Researchers study the human body structure.

YOI has designed a humanoid robot **NINGEN** with inclusive of several action commands like Walking, Self- Balancing, respecting etc., to encourage and induce robotics in school students, college students, and Hobbyist.

The kit consists of assembly parts, coding and user manual. YOI_Pixie board is used as the core control board for this kit,

In this kit, a complete set of hardware devices are provided as well as example code for your learning. You can also write the code for control by yourself. By programming the robot, you can control each leg and even each joint.

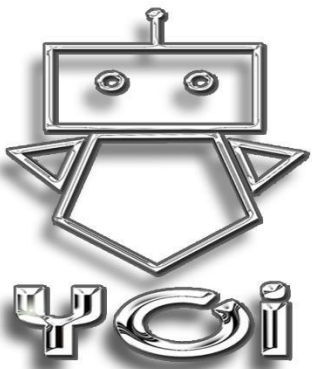
Features:

1. The Humanoid Robot (**NINGEN**) kit is designed based on YOI_Pixie Board. This is a complete and fun Robot learning kit.
2. YOI_Pixie Board.
3. Quick-responding technical support for free.
4. Working Voltage: DC 6V~8V.

The package consists of

- User guide (for assembly and programming).
- Assembly materials.
- YOI_Pixie electronic controller board.
- High Quality Digital Servo actuators.
- 7.8v/5200mah** Rechargeable Battery.





ARM-BOT

YOI-ARM ROBOT

C/C++



Arm robot:

Yoi Arm Robot is an Educational Robotic Kit with multi-functional modes and specifications for students and hobbyist. Mainly Developed for robot lovers and hobbyist. Click to view the video of Yoi-Arm Robot

Link(<https://www.youtube.com/watch?v=UMfPBz8C-5c>)

Detailed manual and a variety of interesting Arduino code routines are provided. Multiple Control Methods – Manual control (Controlled by rotating the potentiometer knob on the driver board); Remote control (Controlled by graphical processing-based PC software) Multiple Features – Self-learning, drawing, imitating, etc.

Yoi arm is a miniature prototype of 5-axis arm robot. Robot consist of two set of two end effectors are Gripper and pen holder. Gripper -used for material handling purposes.

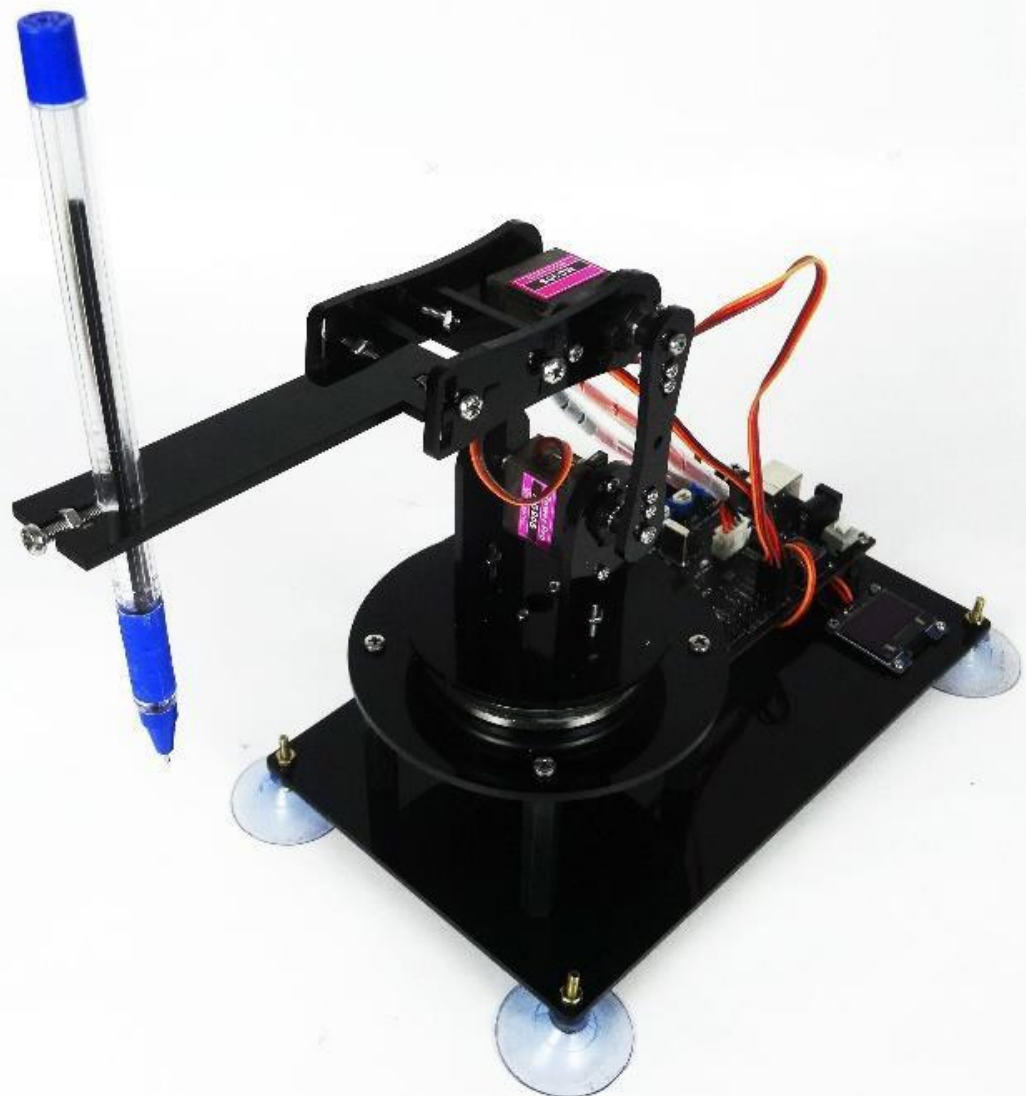
Pen holder- Used for drawing sketching and real time interfacing purposes.

The advantage of robot is that the students assemble and program the robot and stimulate it with the real time concept.

This robot is fully based on STEAM concept that helps the students to understand the application of math and science with ease.

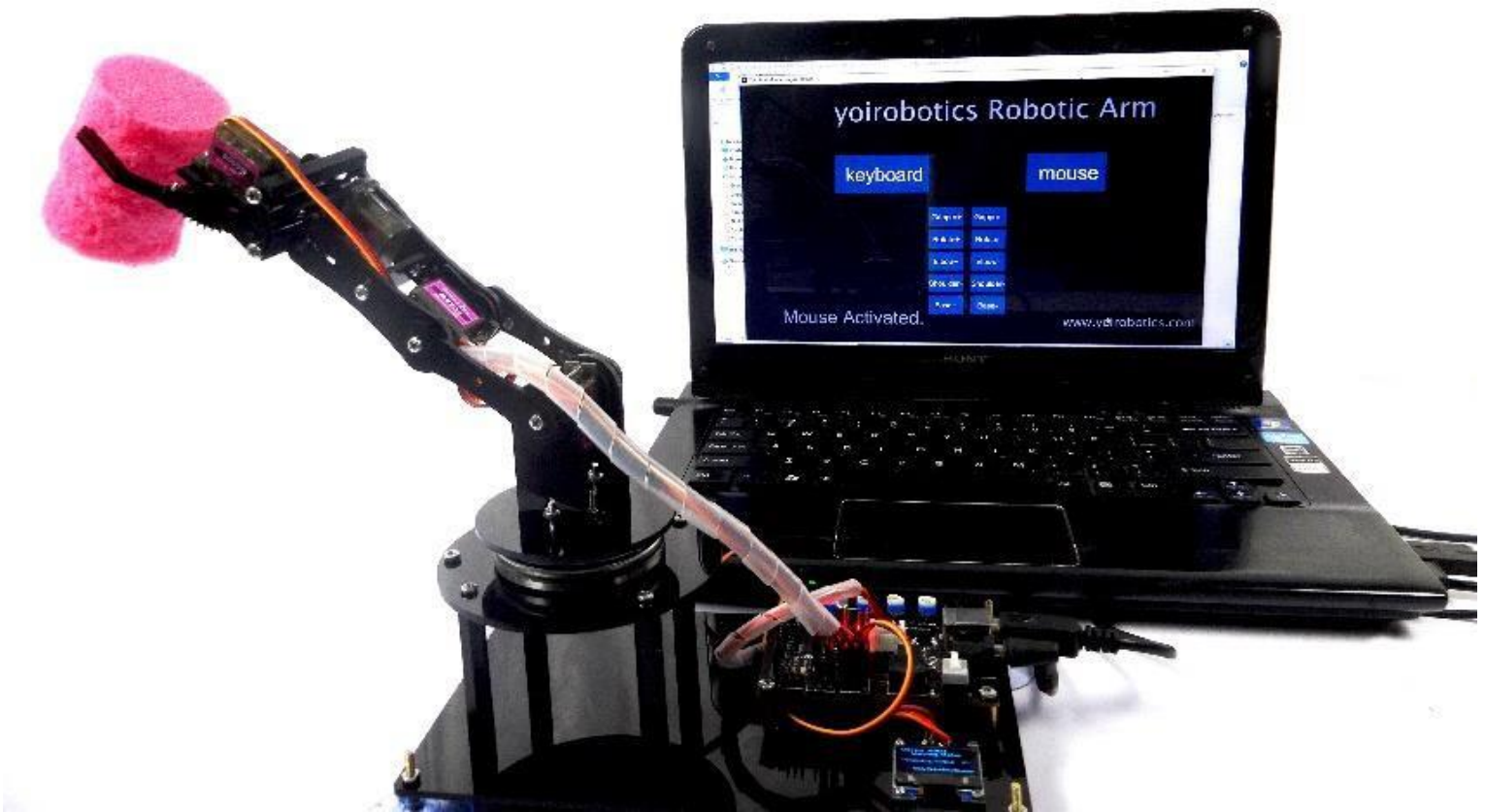
Drawing Board Mode:

You can draw the line on fan-shaped board in computer, then the robot arm can draw the same shape on the paper.



Learning Mode:

Write the code to control the robotic arm to perform the specific motions. Press the pointed key in the computer, then the robotic arm kit can execute your commands, and make corresponding action.



OLED Screen

The oled screen can indicate the current states and remaining steps, which can help you know the processing well.

5 Axis:

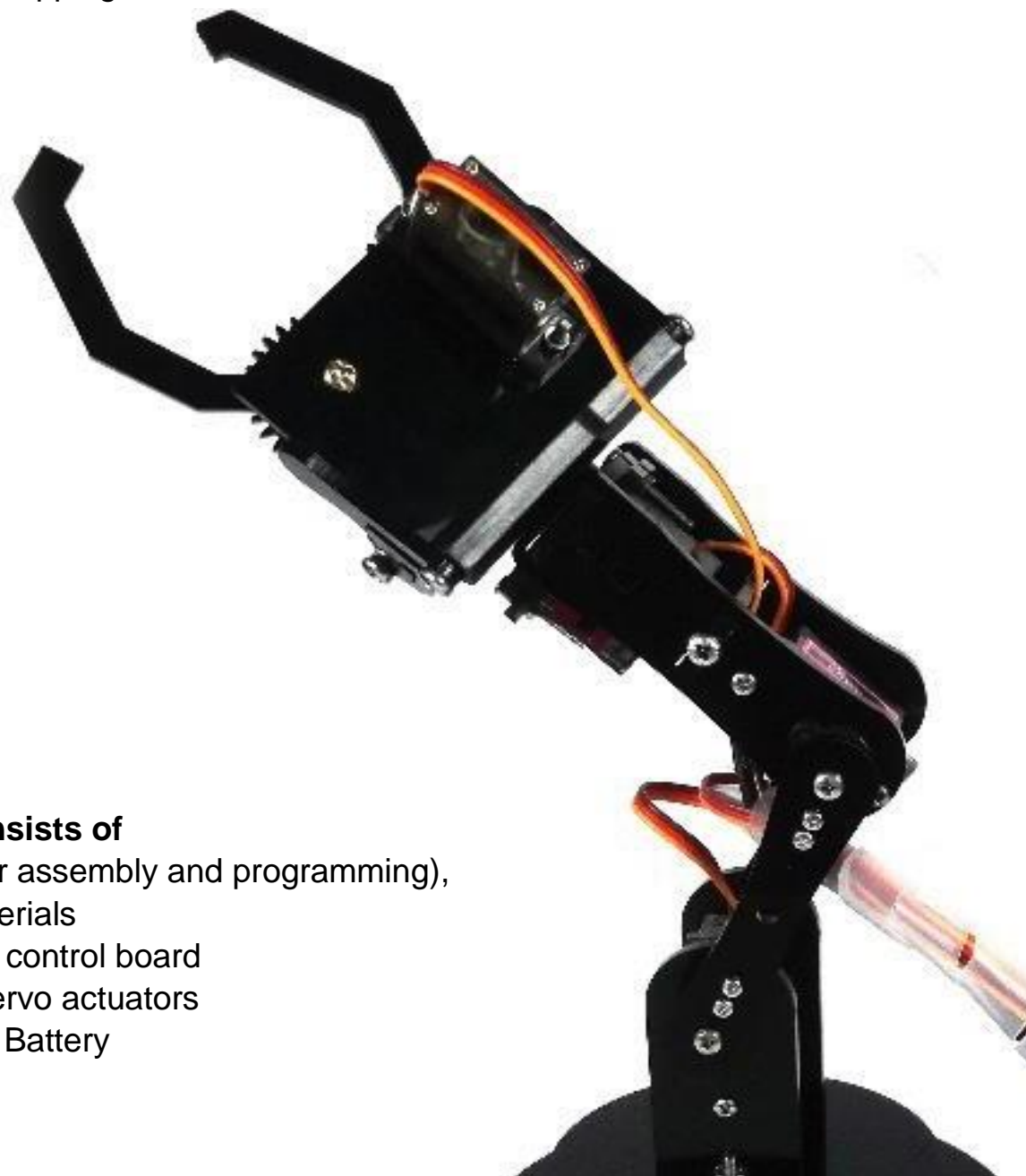
Gripper opens to 3.66 inches and 90 degrees, radial wrist motion of 180 degree, an extensive elbow range of motion of 180 degree, base rotation of 180 degree. 4 Axis design makes the robotic arm move flexibly to grab objects in any direction.

Base:

With the round base design, the arm can rotate in any direction. Built in the stainless steel, which makes the arm rotate smoothly.

Suction Cup Design:

-Using the vacuum cup, the robot arm can be stably fixed on the table to prevent the robot arm from slipping due to moisture.

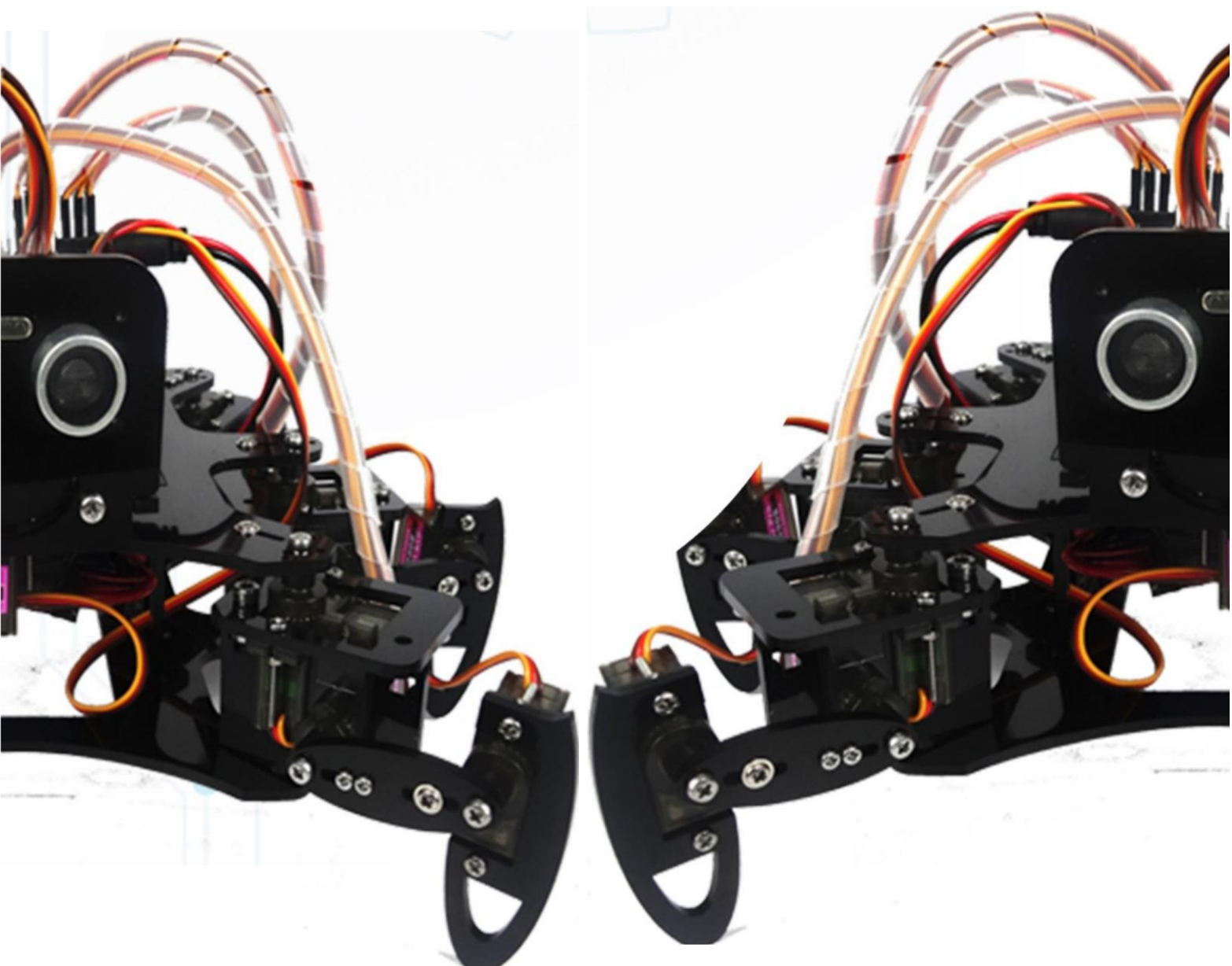


The package consists of

- User guide (for assembly and programming),
- Assembly materials
- YOI electronic control board
- High quality servo actuators
- Rechargeable Battery



HEXA-BOT



Yoi-Hexa Robot:

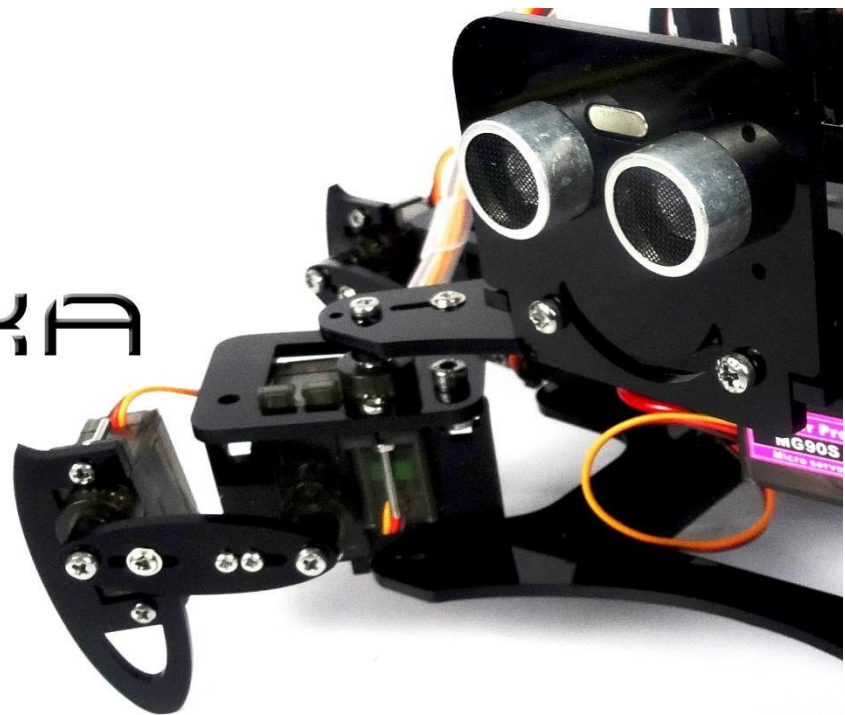
Yoi –Hexa Robot is an Educational Robotic Kit with multi-functional modes and specifications for students and hobbyist.

Mainly Developed for robot lovers and hobbyist. Click to view the video of Yoi-Arm Robot

Link(https://www.youtube.com/watch?v=t1_C1bNSD3U)



R YOI-HEXA B O T



www.yoirobotics.com

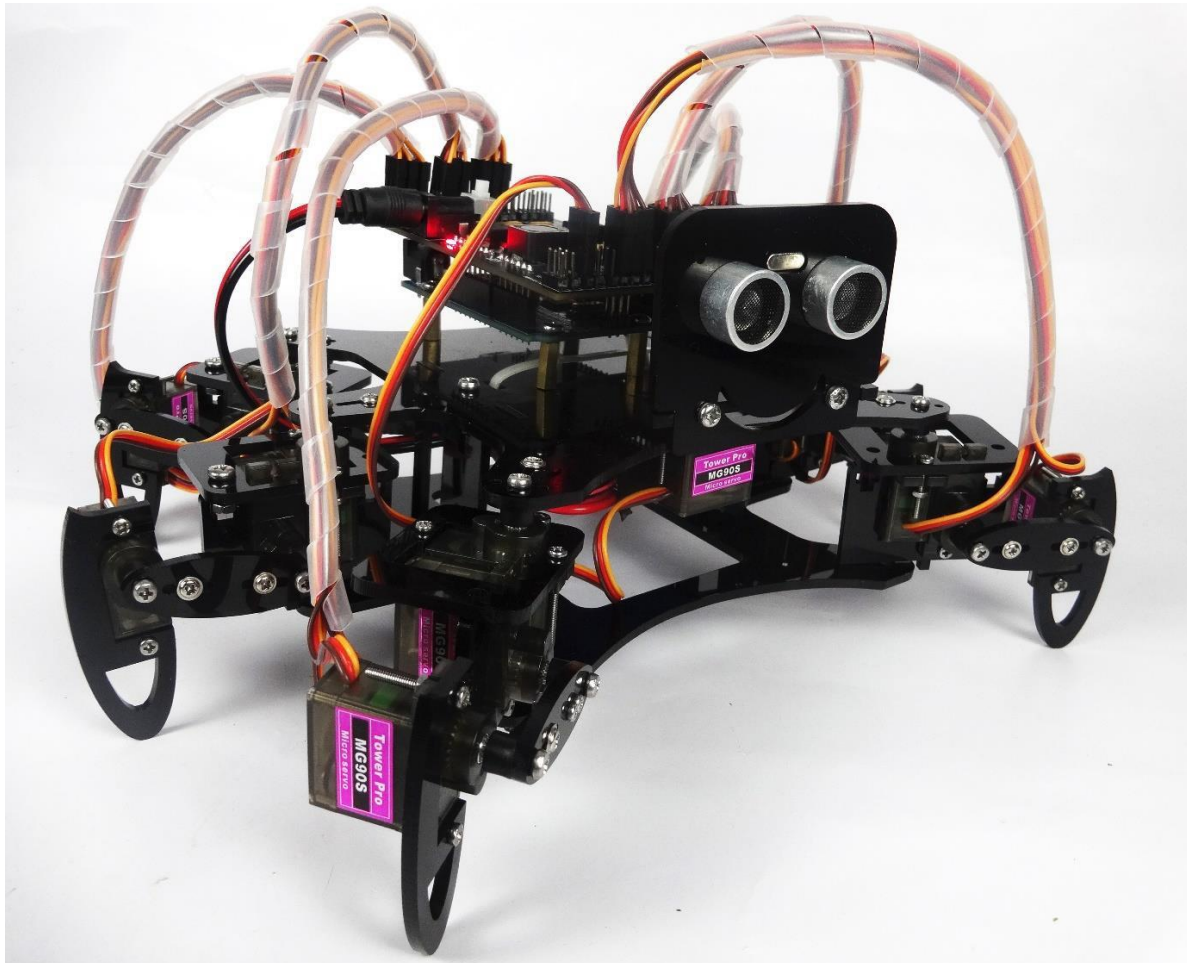
C/C++



Yoi-Hexa robot is one type of multi-legged robots. The design of this robot is derived from insects in nature, especially principles of their movement.

Developed based on Arduino, this 6 Legs spider robot simulates the movements of 6-leg insects via programming in the Arduino IDE and controlling 19 servos.

Yoi-Hexa robot is one type of multi-legged robots. The design of this robot is derived from insects in nature, especially principles of their movement.



Developed based on Arduino, this hexapod robot stimulates the movements of 6 feet insects via programming in the Arduino IDE programming software and controlling 19 servos. Hexapod robot is one type of multi-legged robots.

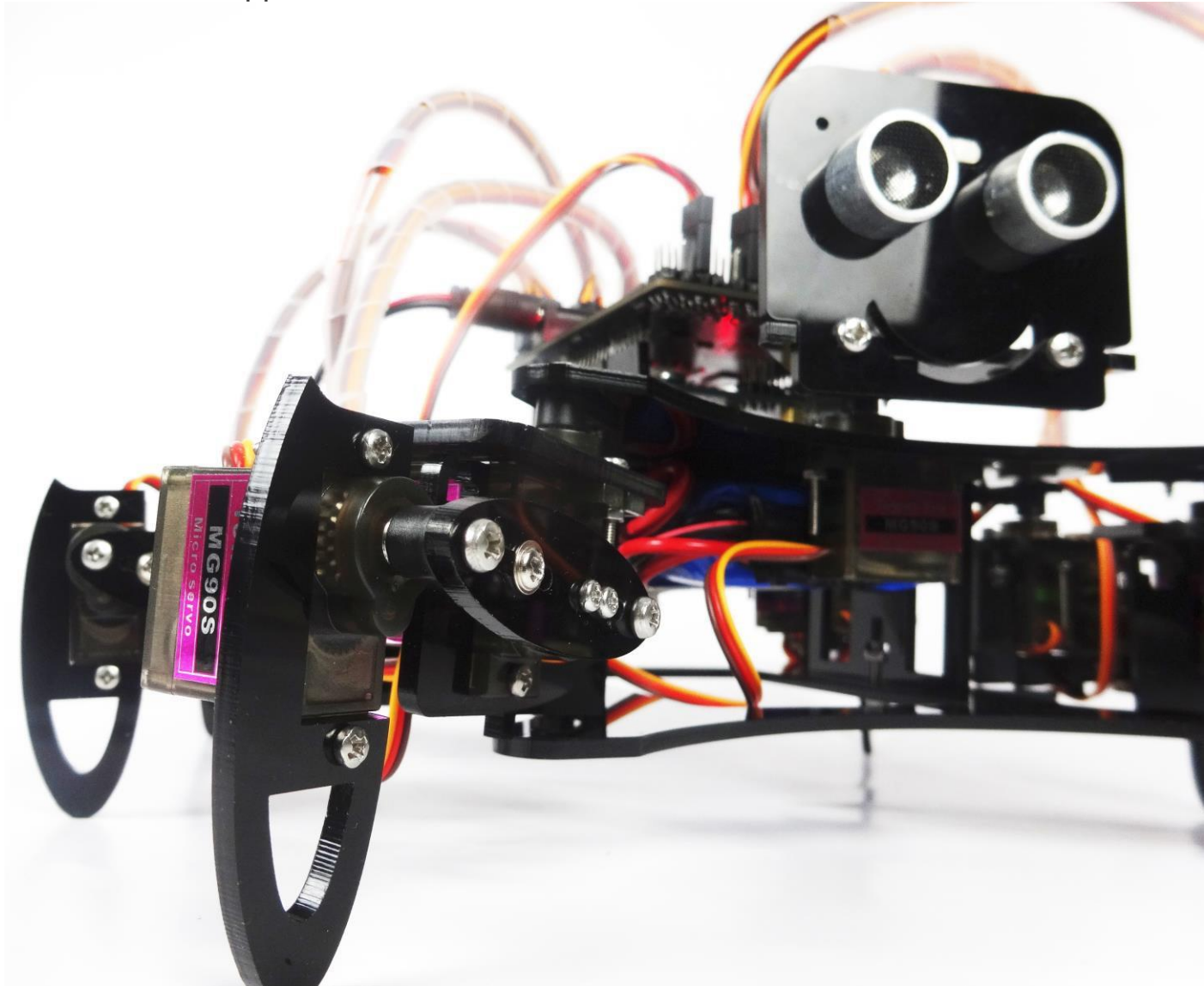
The design of this hexapod is derived from insects in nature, especially principles of their movement. Foot is the motion organ of insects. Some have 3 pairs of feet with each in the front, middle, and back breast; the feet are named respectively the front foot, mid foot and rear-foot.

This hexapod robot is of the similar structure. In this robot kit, a complete set of hardware devices are provided as well as examples code for your learning. Also you can write the code for control by yourself if applicable.

By programming the robot, you can control each leg and even each joint of the legs precisely, and truly feel the thrill and joy of learning and making.

The advantage of robot is that the students assemble and program the robot and stimulate it with the real time concept.

This robot is fully based on STEAM concept that helps the students to understand the application of maths and science with ease.



In this robot kit, a complete set of hardware devices are provided as well as example code for your learning. You can also write the code for control by yourself. By programming the robot, you can control each leg and even each joint, and truly feel the thrill and joy of learning and making.

Arduino UNO board is used as the core control board for this kit, and an yoi 32 Channel PWM Driver board for control of 19 servos inside.

A robot inspired by nature to thrive in the real world. Agile, smart and compact.

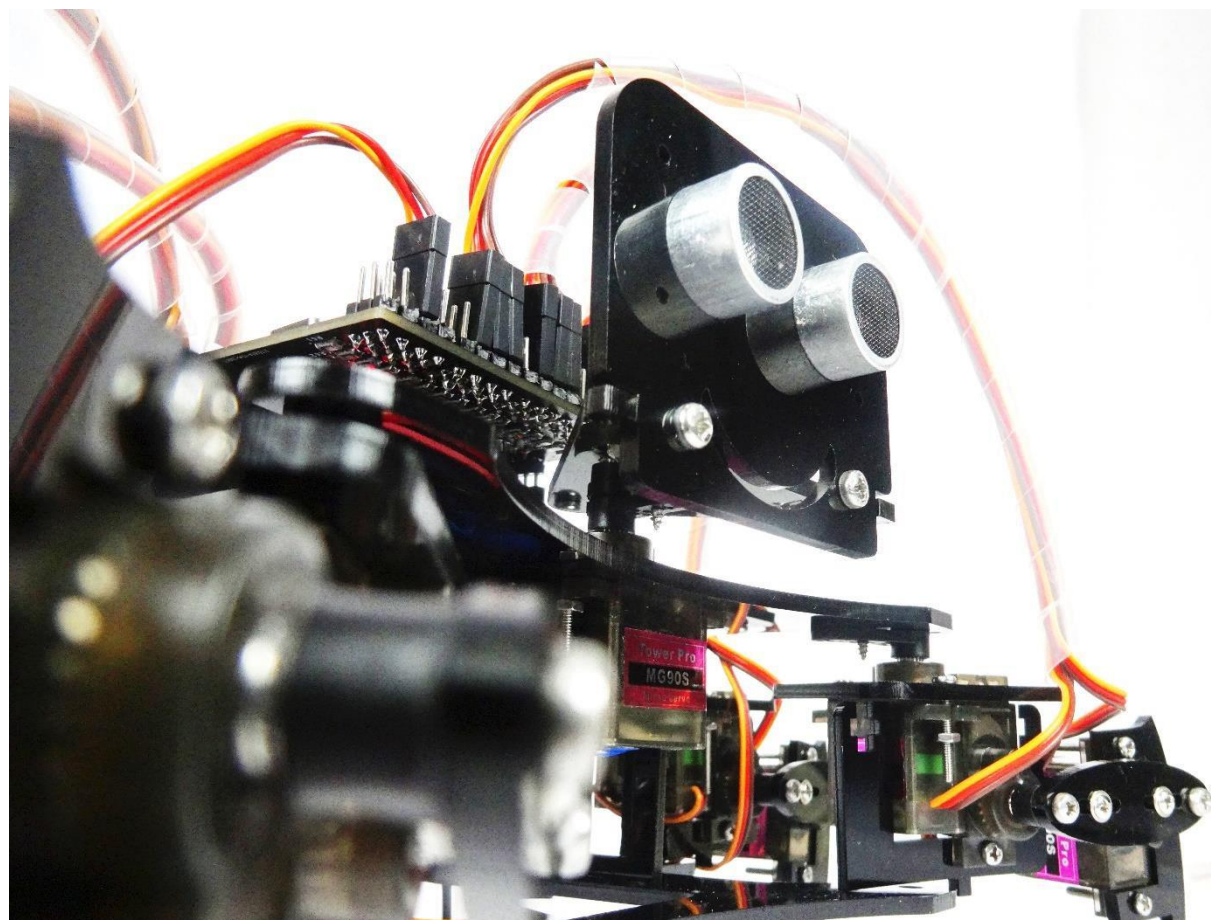
In this robot kit, a complete set of hardware devices are provided as well as example code for your learning. You can also write the code for control by yourself. By programming the robot, you can control each leg and even each joint.

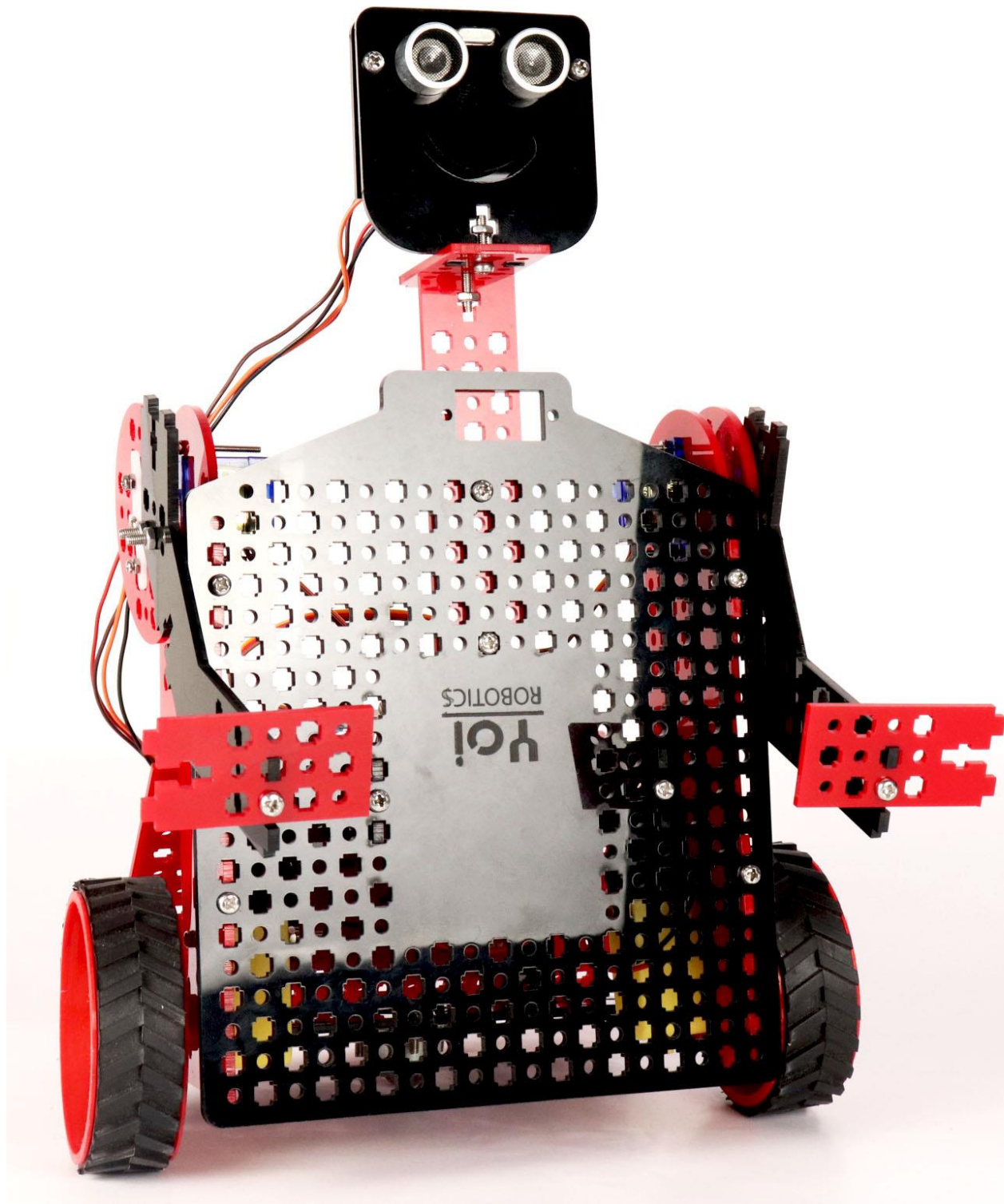
Quick-responding technical support for free.

This robot is fully based on STEAM concept that helps the students to understand the application of maths and science with ease.

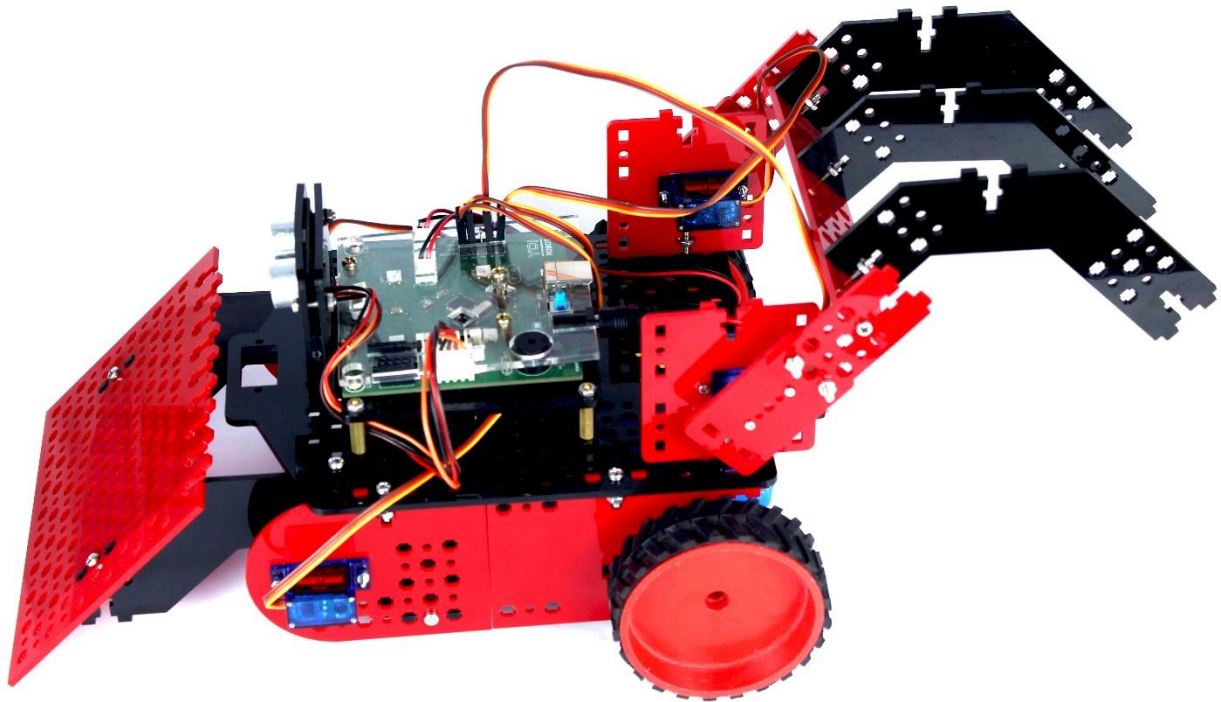
Features:

1. The 6-Legs Spider Robot kit is designed based on Arduino UNO. This is a complete and fun Arduino/Robot learning kit. We carefully prepared a detailed guidebook/tutorial the guidebook contains complete diagrams and assembly steps, according to our tutorial, you will be able to easily build your own Robot...
2. Arduino UNO.
3. Quick-responding technical support for free.
4. Working Voltage: DC 7V~12V.





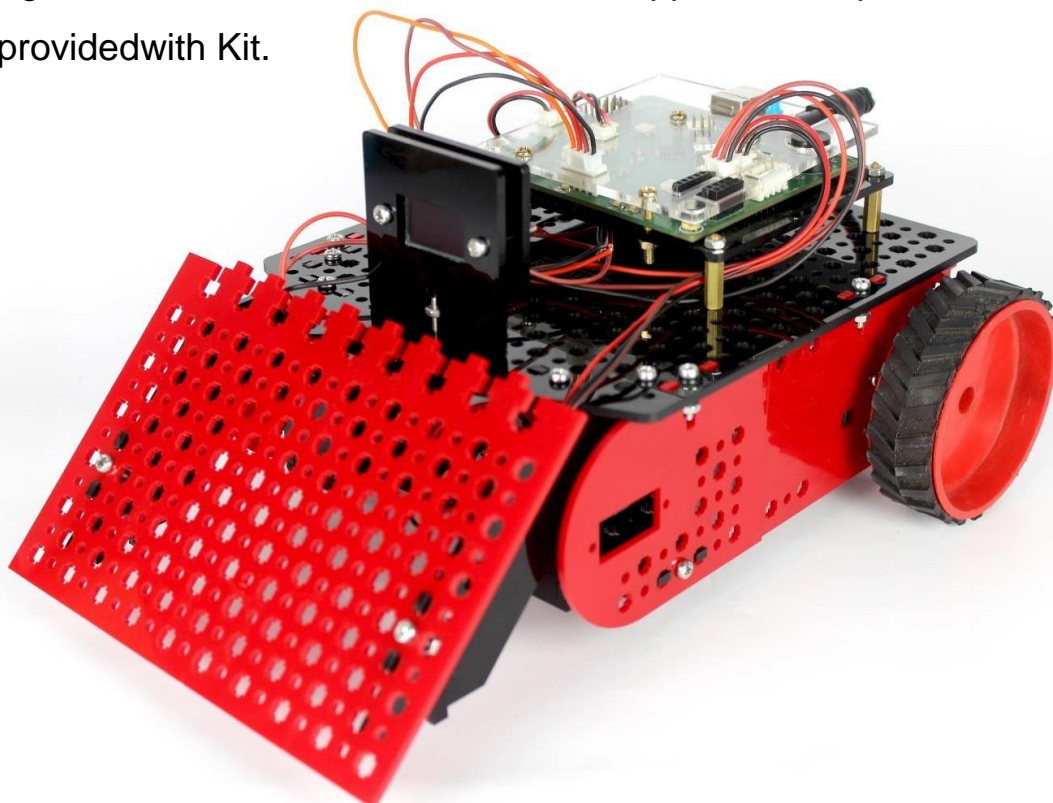
ACTA-BOT ROBOTIC KIT



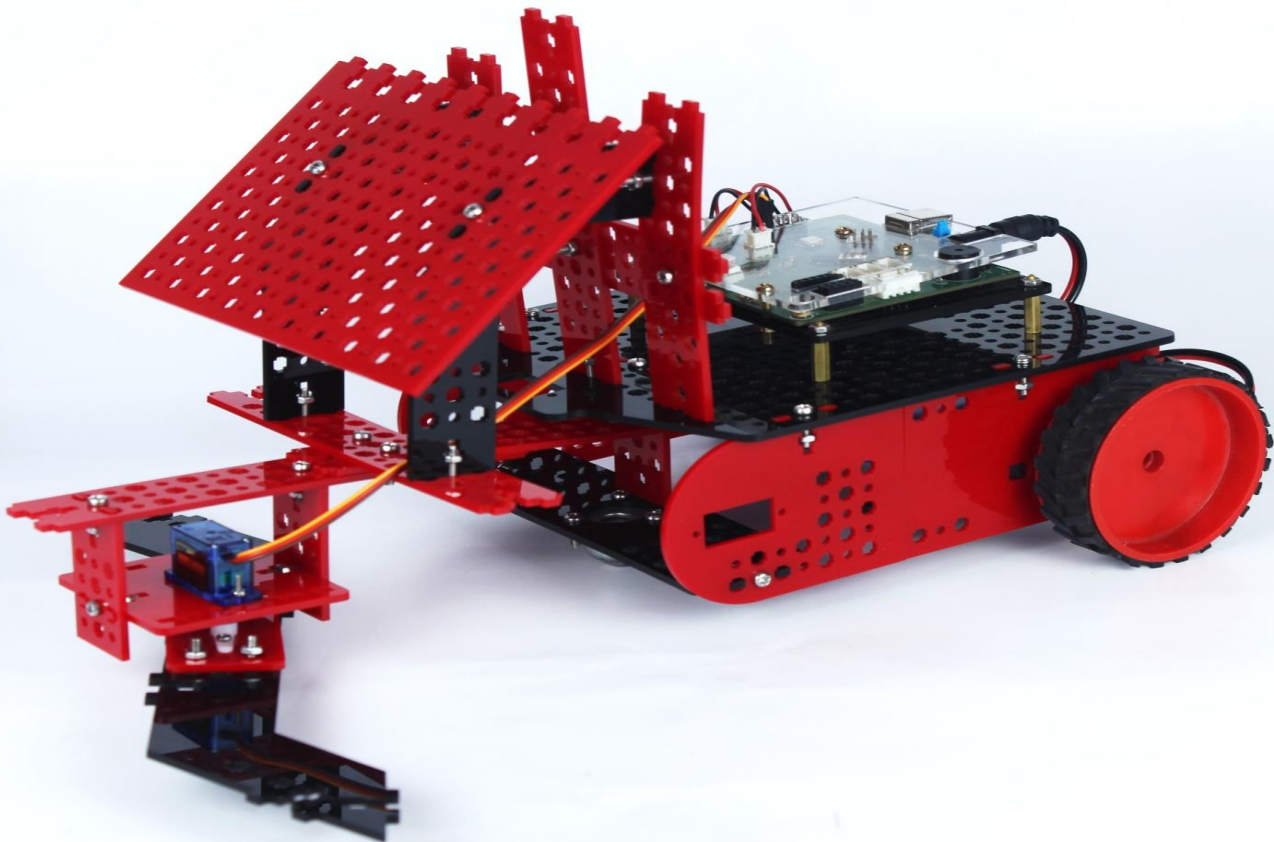
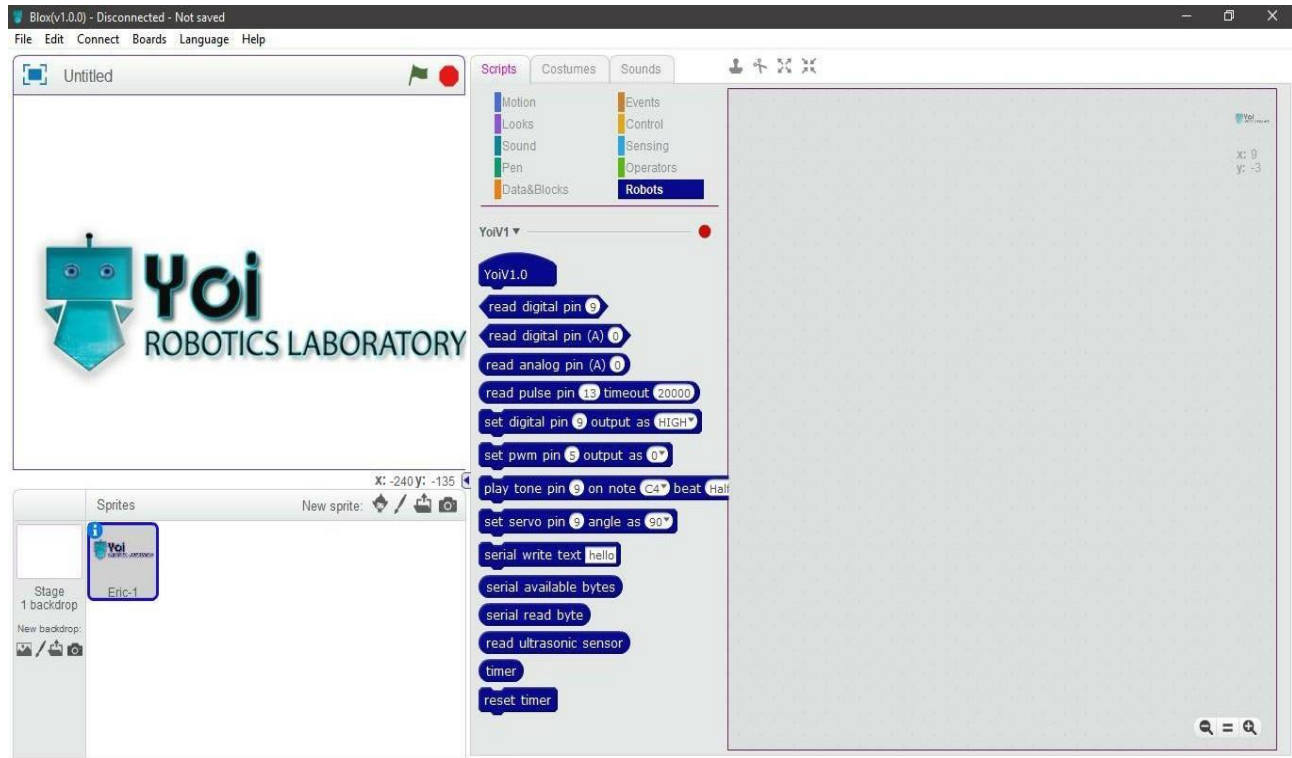
Acta-Robot:

Yoi Acta-Robot is an Educational Robotic Kit with multi-construction STEAM kit for students and hobbyist. Mainly developed for Students and robot lovers and hobbyist.

Using Acta robotic kit can do 30+ robotic Application experiments and manual will be provided with Kit.



Kit also include with Scratch based Constructive Blocks Programming software willbe provided for programming



Robotic kit with Highly Attractive acrylic material consist of many material and I/o Components with Advanced Controller And the Robot can also control with Arduino code

The package consists of

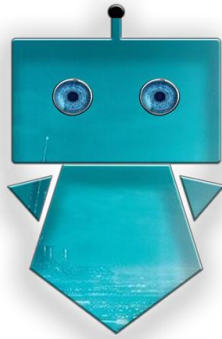
- Experiment manual soft copy provided
- Assembly materials
- Yoi electronic control board
- High quality actuators
- Rechargeable Battery

Services

- Training and Instruction (Assembly, Construction and Programming.
- Technical Support- Available at all working Days' time **9:30 A.M -5:30 P.M**

Warranty

- 1year- warranty for all electronic Micro-controller board



Yoi

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