

# WeeeBot Extended Form A

## **Smart Light Robot**



Maker



Coding

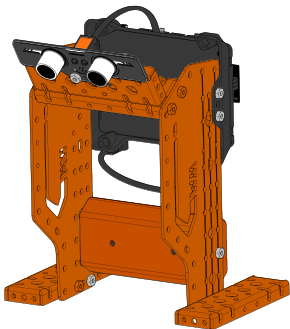


Robot



## introduction

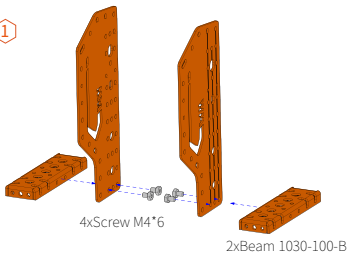
“Smart Lamp” uses light sensor, sound sensor as the control switch. When the robot is in a dim light environment, RGB LED will turn on automatically; when the robot is in a bright light environment, making a sound can turn on the light and making another sound can turn off the light.



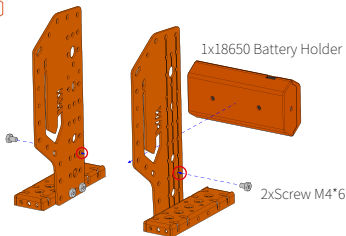


# 1 Installation

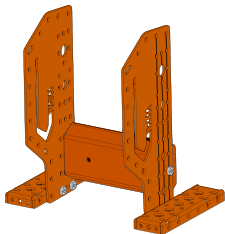
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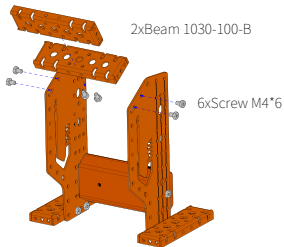
2



3



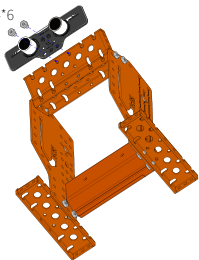
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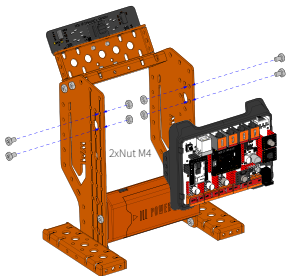


2xScrew M4\*6

5



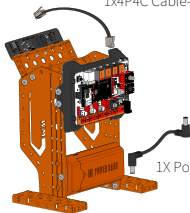
6





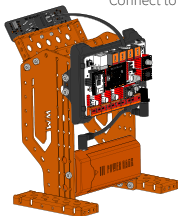
## 2 Wiring

1x4P4C Cable-20cm



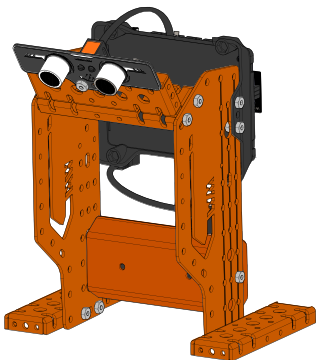
1X Power cord

Connect to Port B



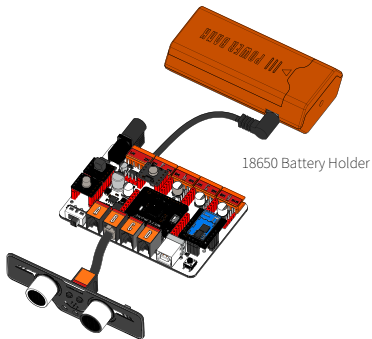


## 3 Completion Figure





## 4 Wiring

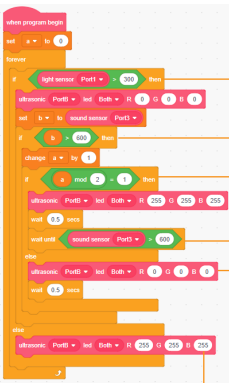


18650 Battery Holder

RGB Ultrasonic Sensor



## 5 Sample Program



Turn off the bulb

Through judging the intensity of ray light in the environment, if the light is weak, turn on the bulb. If the light is strong, the bulb is determined by the loudness of the sound.

Through judging the loudness of a sound in the environment, if it's in a loud voice, (clap hands) turn on the bulb. If it's in a low voice, the bulb remains off.

At the first time people clap hands, the variable a adds one into one. In the case of satisfying the judgment, turn on the bulb. At the second time people clap hands, the variable a adds one into two. In the case of dissatisfying the judgment, turn off the bulb. That is, turn on the bulb if the value of a is an odd number. And turn off the bulb if the value of a is an even number.

When sound value is big, it should wait there. It can't run the program until the sound value is weaker which can exclude the conditions of repeated judgment from one clap.

Turn on the bulb



Manufacturer: WEEEMAKE Technology Co., Ltd  
Address: No. 210-212, Building C, Shiwai TaoyuanOriginality Park, Pingshan 1st Rd,  
Nanshan District,Shenzhen, Guangdong Province, China, 518000  
Product Standard Code: Q/WMZ001-2018  
Service Hotline: +86 755 86532012  
Email: support@weeemake.com  
Website: www.weeemake.com