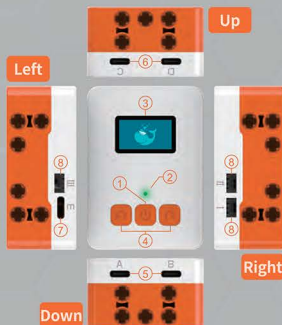


WhalesBot S40

Parts List



 x1	 x3	 x1	 x1	 x1	 30 x2	 40 x5	 50 x5
 x35	 x4	 x4	 60 x4	 80 x4	 100 x1	 x45	 x65
 x4	 x2	 x4	 x6	 x6	 x8	 x10	 x6
 x4	 x6	 x4	 x3	 x10	 x14	 x10	 x6
 x12	 x4	 x4	 x1	 x3	 x1	 x1	 x2
 x1	 x4	 x2	 x2	 x2	 x6	 x2	 x7
 x2	 x3	 x2	 x2	 x2	 x1	 x4	 x4
 x4	 x2	 x1	 x15	 x15	 x1	 x4	 x4



Please refer to the user manual for more details



Scan the QR code to view the manual directly
Download link:
<https://en.whalesbot.com/res>

Software downloading address:
<https://en.whalesbot.com/code>



WhalesBot programming std

Controller introduction

① Power button

Short press to power on, long press to power off
 Short press the power button after starting to run the program P1, short press again to exit the program

② Indicator light

- The green light is always on, indicating that it is in the power-on situation
- The blue light is always on, indicating that it is in the program running situation
- The red light status indicates low battery and needs to be charged

③ Display screen

Display program number and smart motor control interface

④ Left/right switch program button

↶ Means left / ↷ Means right

⑤ Port A/B

Connect actuators and sensors
 (excluding integrated five-grayscale sensor)

⑥ Port C/D

Connect data lines, actuators, sensors
 (excluding integrated five-grayscale sensor)

⑦ Port E

Connecting the integrated five-grayscale sensor

⑧ Servo port 1 / II / III

Connect Servo

Operation interface use

1. How to switch programs

- Short press to power on, the P1 program interface will be displayed, short press to switch 6 programs
- Short press the power button again to display the interface and run the program
- Short press again to return to the initial interface
- If the program is empty, it will automatically return to the initial interface

2. Smart Motor Control

- Connect the smart motor to any port of A/B/C/D
- Short press ↶/↷ to switch the motor interface
- Short press to confirm entry
- Short press ↶/↷, smart motor forward/reverse
- Short press to stop, short press again to exit

Smart motor



⑨ Motor output shaft

Can control speed, direction, rotation time and number of turns

Integrated five-grayscale sensor



How to charge

Notes: When the battery is low, the indicator light is red. Connect to any port C and D on the controller, and then it can be charged, and it will be fully charged in about two hours.



⑩ Grayscale sensor

It can detect the gray value of the ground and realize the function of line following

⑪ RJ11 interface

Connect to the E port of the controller through a cable

⚠ Warnings

1. Regularly check whether the wires, plugs, casings or other parts are damaged, and if any damage is found, stop using it immediately until it is repaired.
2. This product contains small balls and parts, which may be ingested by children. It is not suitable for children under 3 years old.
3. Children should use this product accompanied by adults.
4. Do not disassemble, repair or modify this product by yourself to avoid product failure and personal injury.
5. Do not place this product in water, fire, humidity or high temperature environment to avoid product failure or safety accidents.
6. Do not use or charge this product in an environment that exceeds the working temperature range (0°C-40°C) of this product.
7. The lithium battery controller can only be connected to one power adapter, and cannot be connected to the computer port and the power adapter at the same time.

✖ Maintenance

1. When not in use for a long time, store this product in a dry and cool environment.
2. When cleaning this product, please turn off the product and disconnect it from external power supply equipment. Wipe it with a dry cloth or disinfect it with alcohol with a concentration of less than 75%.