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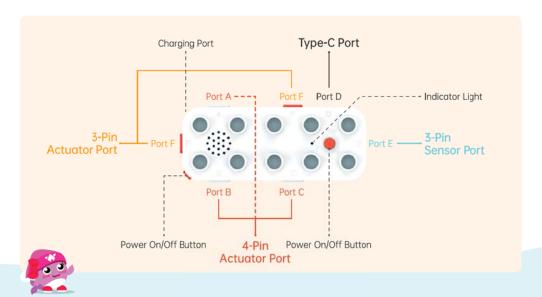
* Visit https://www.whalesbot.ai for more information



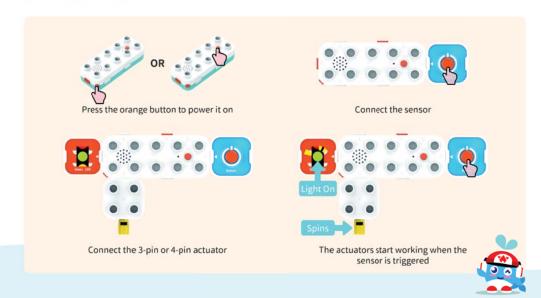


Controller

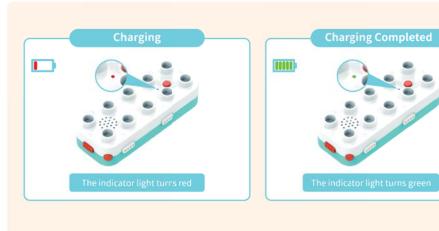
Ports



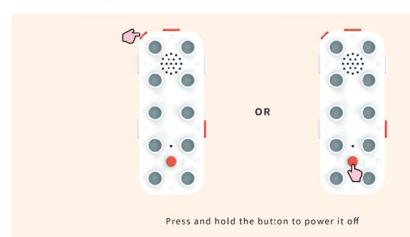
Getting Started



Charging

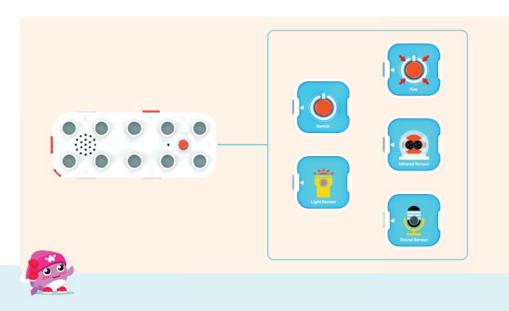


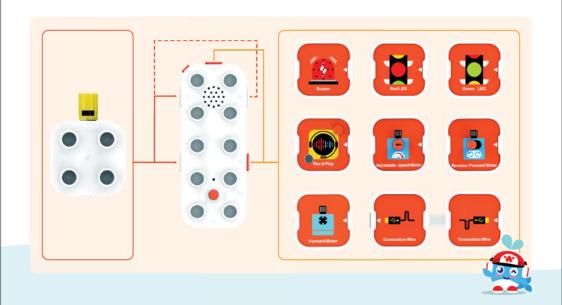






Where to Install a Sensor





Sensors



Touch Button



Touch and hold to trigger



Release to stop



Switch



Press to trigg



Press again to stop



Infrared Sensor



Move close to trigger



Move away to stop



Light Sensor



Friggered when dark



Stop when bright







Sound Sensor

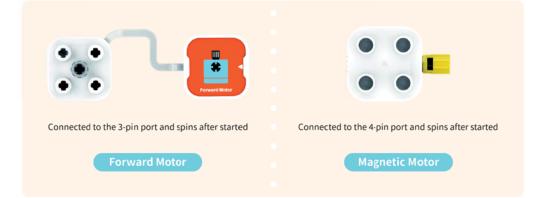


Triggered by sound



Stop when no sound

Actuators







Forward Motor



When the toggle switch is in the left position, the motor turns anti-clockwise



When the toggle switch is in the right position, the motor turns clockwise

Adjustable-speed Motor



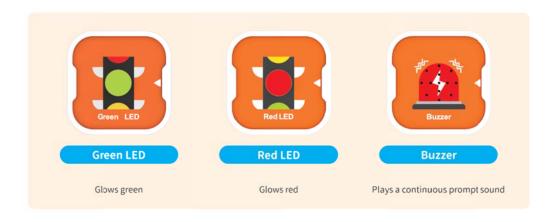
If the arrow sign on the rotary switch points to the left, the motor speed reaches its lower limit

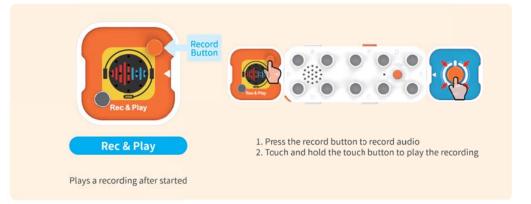


If the arrow sign on the rotary switch points to the right, the motor speed reaches its upper limit











Logical Blocks



Put logical AND between two digital blocks. The controller starts the actuators only if both digital blocks are triggered



Example

When the infrared sensor detects something and the touch button is touched at the same time, the buzzer plays sounds



Logical OR

Put logical OR between two digital blocks. The controller starts the actuators if one or both digital blocks are triggered



Example:

When the infrared sensor detects something or the touch button is touched, the buzzer plays sounds







Logical NOT

You can connect logical NOT to sensor to reverse the condition where the sensor is triggered



Turned off in daytime and on in evenin





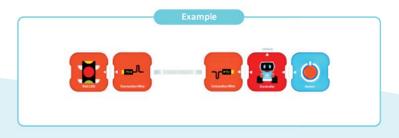
Turned on in daytime and off in evening

Connection Block

Connection Wire



Use the connection wire to connect digital blocks that are not installed side by side.







Remote Control

Overview

Forward/Backward

Let the robot move forward or backward

Indicator Light (Unpaired)
Blue light flashing: Bluetooth unpaired

Power On/Off 6

Press the button to power it on.
Press and hold the button to power it off
After being paired with the controller,
press the button to change speed



Left/Right

Let the robot turn left or right

(Paired) ndicator Ligh

Blue light steady: low speed Green light steady: medium speed Red light steady: high speed

O Pairing

Put the remote control close to the controller. Then, press and hold the button to start pairing

Install Batteries

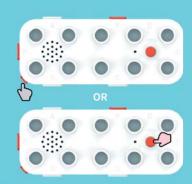


- * The remote control operates on two AAA batteries
- * We recommend that you use AAA alkaline batterie



Bluetooth Pairing





Turning on

Press the power on/off button Remote control: Blue light flashin Controller: Blue light flashing





Pairing

Remote control: Put it close to the controller. Press and hold the pairing button until the blue light goes steady. Controller: Put it close to the remote control









Pairing Succeeds

Remote control: Blue light steady

Controller: Blue light goes steady and plays prompt sour





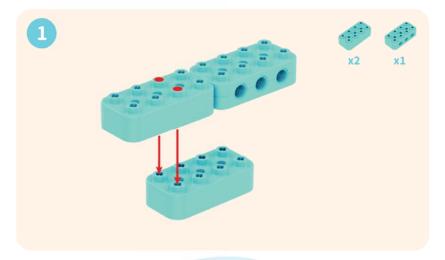


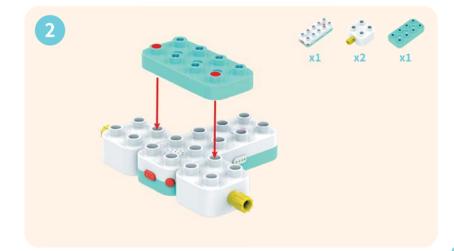
Using

Remote control: Press the forward/backward and leftward/rightward buttons Controller: Connect the magnetic motors to the controller and make them spi



Sample Project



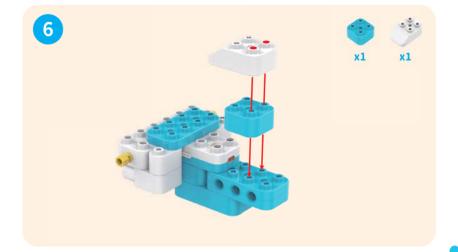




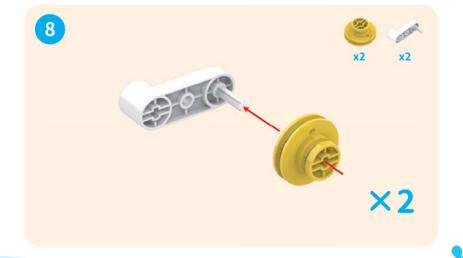


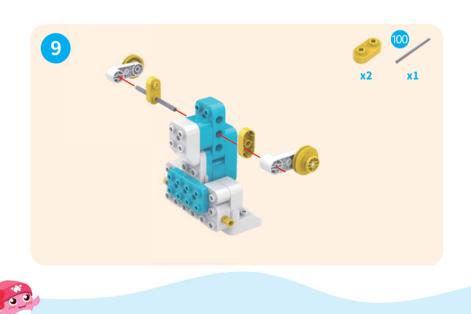


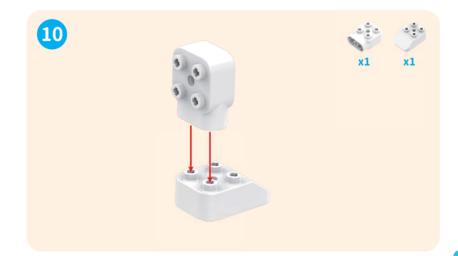


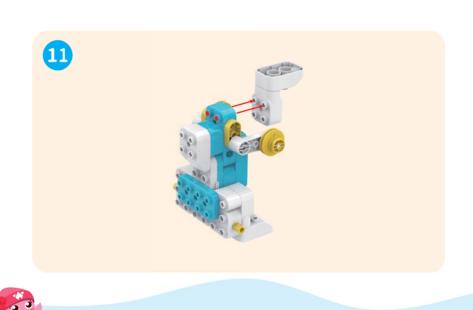




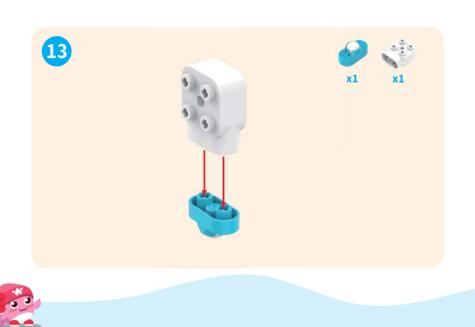


















Frequently Asked Questions

How to Charge

- 1. The controller uses a 3.7V/430mAh lithium battery, which is fixed inside the product and cannot be disassembled.
- 2. The lithium battery of this product must be charged under the supervision of an adult. It should be charged according to the method or equipment provided by the company. It is forbidden to charge without supervision.
- 3. Once the power is low, please charge it in time and follow the charging operation.
- 4. Please avoid using controllers, actuators, sensors, and other components in a humid environment to prevent liquid from flowing in, causing a short circuit of the battery power supply or power terminals.
- When the product is not in use, please fully charge it and place it for storage. It needs to be charged at least once every three months.
- 6. Please use the recommended adapter (5V/1A) to charge this product.
- 7. When the lithium battery cannot be charged or is deformed or overheated during charging, immediately disconnect the power supply and contact the after-sales service department of WhalesBot to deal with it. It is strictly forbidden to disassemble the battery without permission.
- 8. Do not expose the battery to open flames or dispose of it in a fire.



-Do not C878mix old and new batteries.
 -Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.

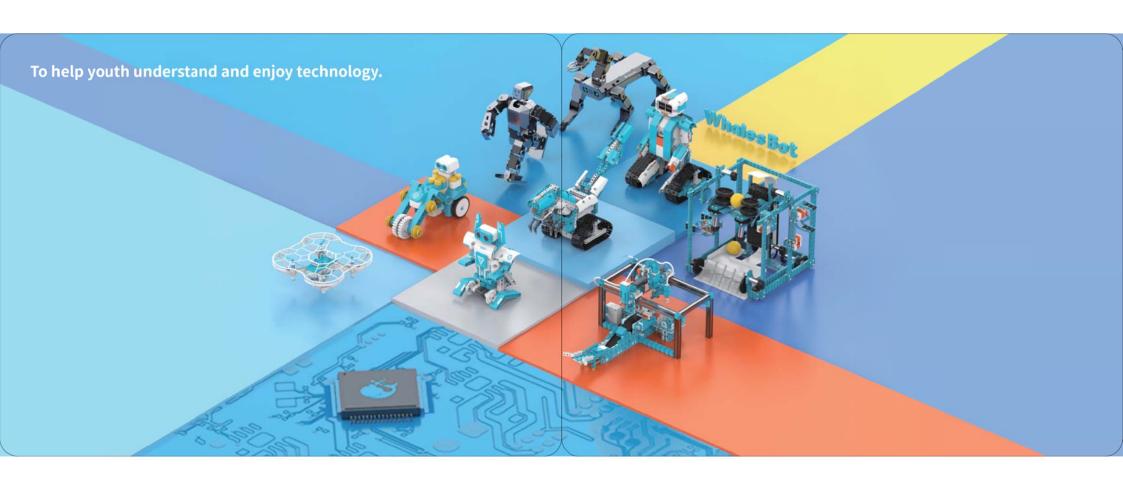
Warning and Maintenance

⚠ |Warning]

- Regularly check whether the wires, plugs, casings, or other parts are damaged. If any damage is found, stop using
 the product immediately until it is repaired.
- This product contains small balls and parts that pose choking risks, and is not suitable for children under 3 years old.
- Children should use this product under the supervision of an adult.
- Do not disassemble, repair, or modify this product by yourself to avoid product failure and personal injury.
- Do not place it in water, fire, humidity, or high-temperature environment to avoid product failure or safety accidents.
- Do not use it in an environment beyond the product's operating temperature range (0-40°C).

⊗ | Maintenance

- If not in use for a long time, please store it in a dry and cool environment.
- When cleaning it, please turn off the product and wipe it with a dry cloth or disinfect it with less than 75% alcohol.



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - -Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.