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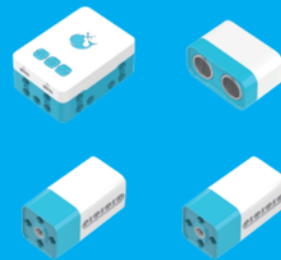
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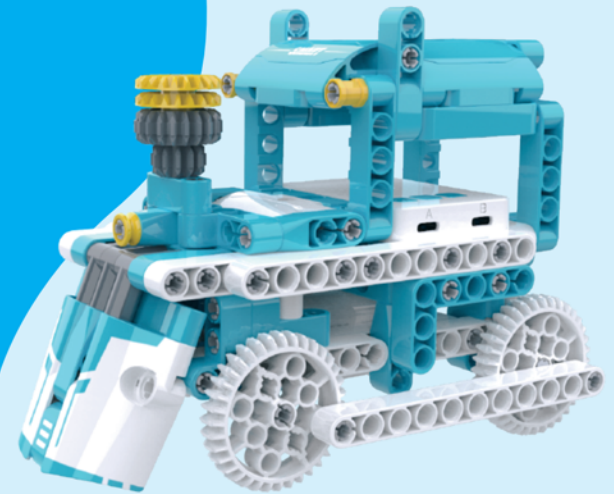
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User Manual



12 in 1



WhalesBot D3Pro

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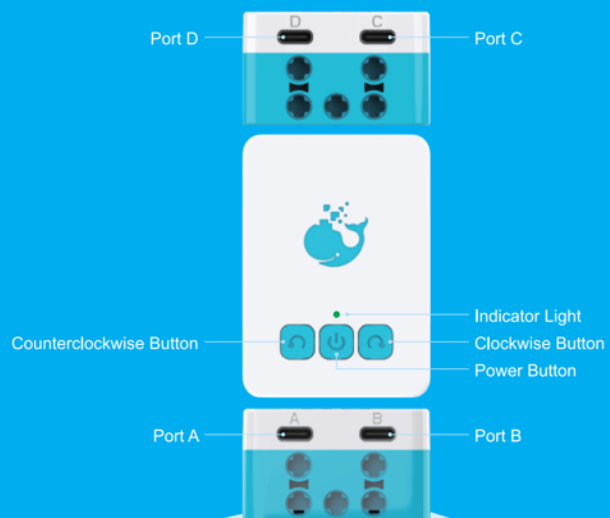
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* More projects available at www.whalesbot.ai



Controller



Quick Steps for Controller Use

03-04



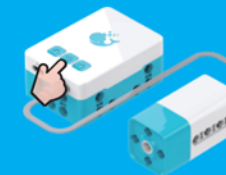
Turn on the switch



Short press for clockwise rotation



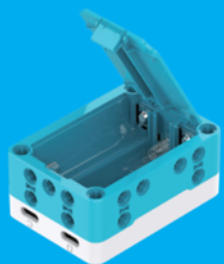
Short press for counterclockwise rotation



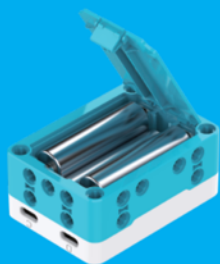
Short press to stop, long press to power off

Tip: When Bluetooth is connected, the left and right keys are not available.

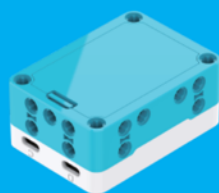
Battery Installation



Open the battery box



Prepare 3 AA batteries and insert them into the battery compartment



Close the battery box



Master Control Light Explanation

05-06



Green light on:
Bluetooth connected



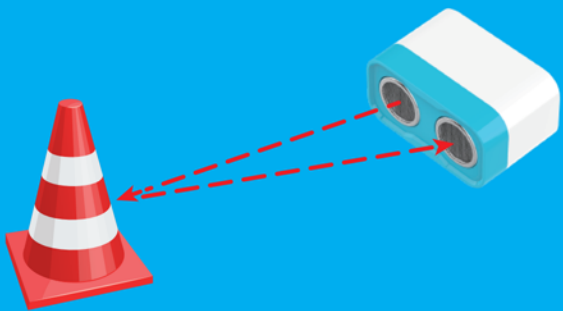
Green light blinking:
Bluetooth not connected



Red light on:
Low battery, battery needs to be replaced



Ultrasonic Sensor



The ultrasonic sensor is like the eyes of the robot. By using the principle of ultrasonic wave reflection when encountering obstacles, it can measure obstacles.



Motor

07-08



The output shaft in the middle of the motor can rotate clockwise or counterclockwise. The rotation speed and time of the motor can also be changed through programming.

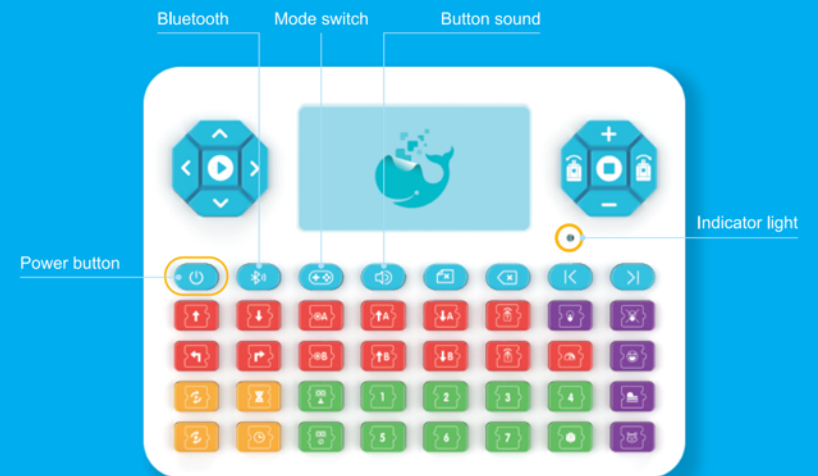
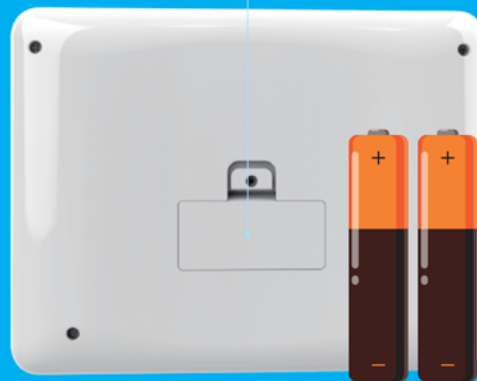


Programmer User Guide

Take out WeCode, tap the power button lightly, and WeCode can be turned on! If you want to turn off WeCode, just hold down the power button.

Before booting,
you need install
the battery first

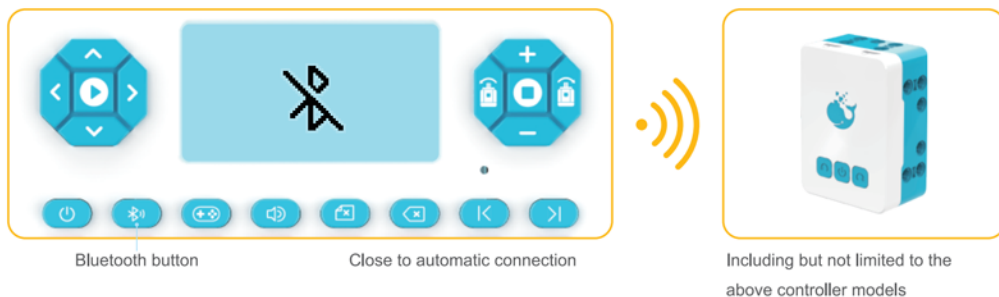
2 AAA batteries



Bluetooth Pairing

After starting up, if the  icon appears on the screen, we only need to put WeCode close to the controllers that have been turned on, then they will automatically connect.

WeCode

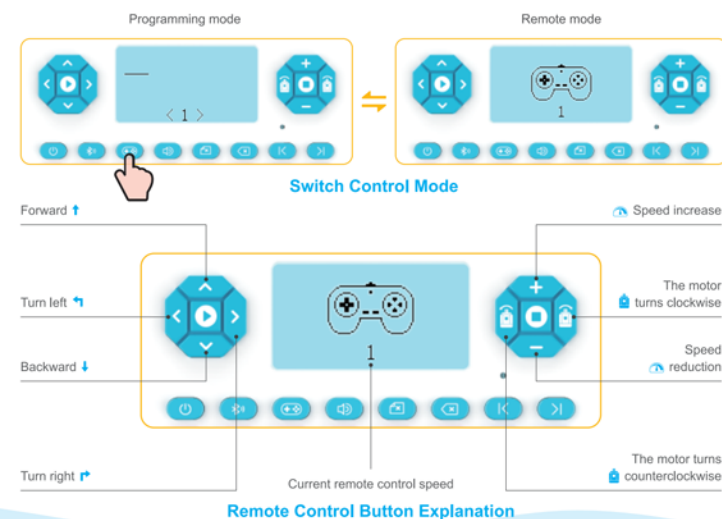


If you need to re-pair with other controllers, you can turn off the currently connected controller, press and hold the Bluetooth button on WeCode until the blue light flashes, just approach the controller that needs to be connected.



Remote Control Mode Button Explanation

WeCode comes with a rich set of remote control functions and can switch between programming and remote control modes with one click.

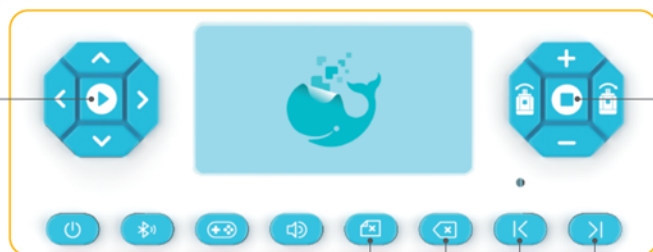


Tip: To use the remote control function smoothly, you need to build a standard dual-motor car. The building steps can be found on the official website www.whalesbot.ai.



Programming Mode Button Explanation

Program operation buttons



Program stop button

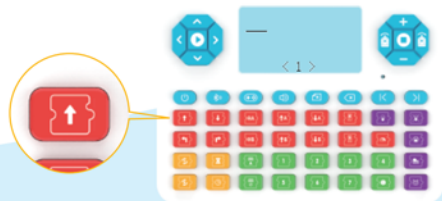
Delete all commands

Delete a single command

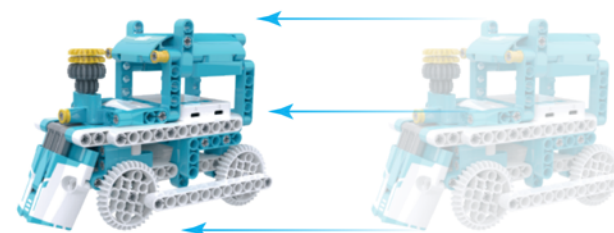
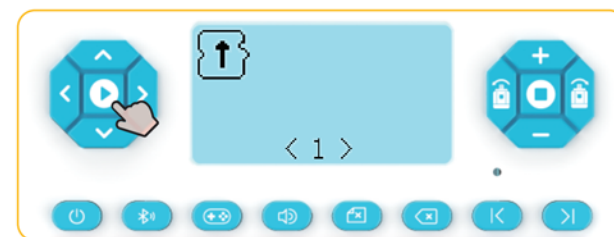
Page right

Page left

When we start programming, we need to use the four color instructions at the bottom of the screen. Let's start from the simplest program. Now, please find the "Forward (↑)" in the red instructions and try pressing it.



Now, we can see the corresponding "Forward" command appearing on the screen. Just press the program run button, and the vehicle will move forward a certain distance. The program controlling the movement of the small car is completed like this. Isn't it quite simple?



Module Function

The red modules are execution commands, in simple terms, they control various types of motor operation.



Forward

Advance a fixed distance each time



Backward

Back a fixed distance each time



Turn left

Let the whole car turn left 90 degrees each time



Turn right

Let the whole car turn right 90 degrees each time



A Motor stop

Separately control the A motor to stop rotating



B Motor stop

Separately control the B motor to stop rotating



Speed

Change the operating speed of all motors



A Motor forward

Independently control the forward rotation of the A motor



A Motor reverse

Separately control A motor reverse



B Motor reverse

Separately control B motor reverse



B Motor forward

Independently control the forward rotation of the B motor



Motor timing forward

C/D motor rotate forward for 1 second



Motor timing reverse

C/D motor reverse for 1 second



The purple modules are sound and light commands. We can combine these commands with numeric commands to produce different sounds and display effects.



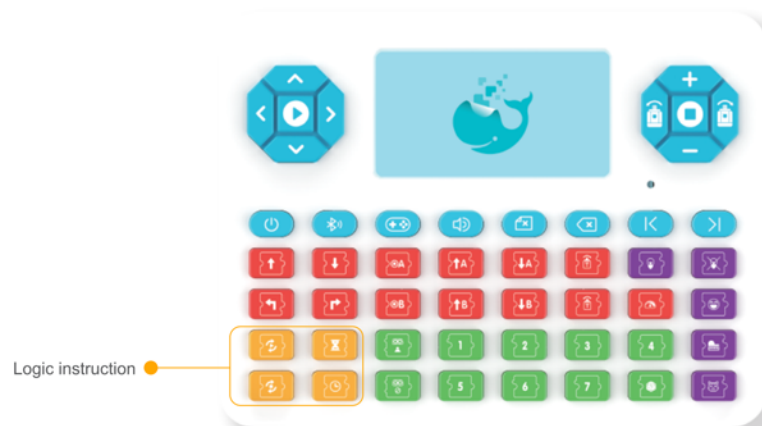
Sound and light instructions



{1} = Hi	{1} = Duck squawking	{1} = Do
{2} = Welcome	{2} = Bird chirping	{2} = Re
{3} = Thanks	{3} = Hoofbeats	{3} = Mi
{4} = Nice to meet you	{4} = Sheep meowing	{4} = Fa
{5} = Goodbye	{5} = Mew	{5} = So
{6} = Heartbeat	{6} = Dog barking	{6} = La
{7} = Laughter	{7} = Cow sound	{7} = Si
{1} = White light	{5} = Yellow light	
{2} = Red light	{6} = Cyan light	
{3} = Green light	{7} = Purple light	
{4} = Blue light	X = Turn off the lights	



The yellow modules are logic commands, mainly consisting of loops, judgments, and wait times. Loop commands are mainly used in conjunction with other commands.



Logic instruction



Wait command

The waiting time defaults to 1 second

Example
of use

- Waiting time is 3 seconds
- The waiting time is 1-6 seconds in random



Wait until command

Wait until the condition is met

Example
of use

- Wait until an obstacle is detected



Repeat forever

Execute the instructions inside the loop infinitely

Example
of use

- The vehicle turns left forever until the program stop button is pressed or the device is automatically shut down



Stop repeating command

Termination of the loop instruction

Example
of use

- ... represents the instruction to be looped



These green commands do not have much effect when used alone, but when they are combined with some commands, they can produce many interesting effects.



Ultrasonic sensor
Obstacle detected, as the trigger condition

Example of use

Wait until an obstacle is detected

Ultrasonic sensor
Obstacle detected, as the trigger condition

Example of use

Wait until no obstacle is detected

1 Digital command
Number 1

2 Digital command
Number 2

3 Digital command
Number 3

4 Digital command
Number 4

5 Digital command
Number 5

6 Digital command
Number 6

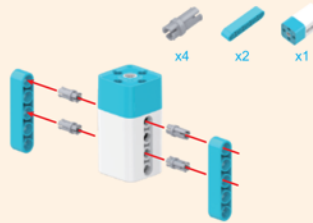
7 Digital command
Number 7

Use Case

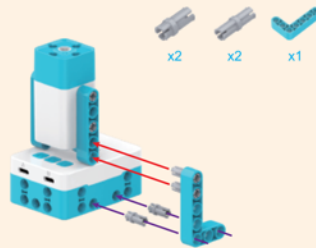
Follow the steps below to complete the construction of the Hurricane Flying Chair.

23-24

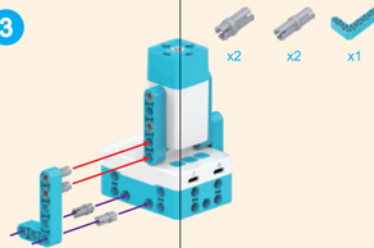
1



2



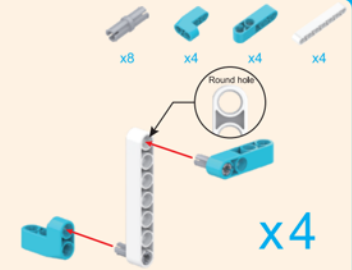
3



4



5



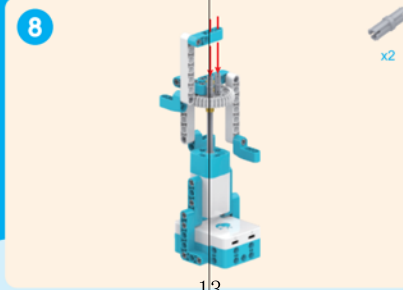
6



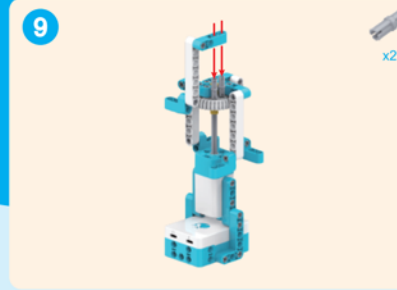
7



8



9

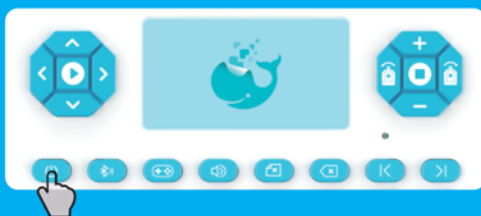


10



After the construction is completed, use WeCode to program the project.

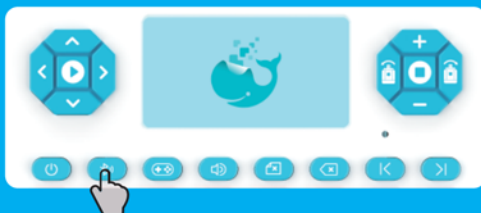
1. Open WeCode



3. Enter commands as prompted



2. Hold down the Bluetooth button to complete pairing



4. Run the program, the Hurricane Flying Chair begins to rotate



Precautions

25-26

Warning

- Check regularly whether the wire, plug, housing or other parts are damaged, stop using immediately when damage is found, until they are repaired;
- This product contains small balls and small parts, which may cause choke hazard and is not suitable for children under 3 years old;
- When children use this product, they should be accompanied by adults;
- Do not disassembly, repair and modify this product by yourself, avoid causing product failure and personnel injury;
- Do not place this product in water, fire, wet or high temperature environment to avoid product failure or safety accidents;
- Do not use or charge this product in an environment beyond the working temperature range (0°C~40°C) of this product;

Maintenance

- If this product will not be used for a long time, please keep this product in a dry, cool environment;
- When cleaning, please turn off the product; and sterilize with dry cloth wipe or less than 75% alcohol.

FCC Statement

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.

Caution: 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 important announcement

Radiation Exposure Statement

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