Cubroid User Guide

Product overview and use

What Cubroid is trying to pursue is to create a play education tool that will take away the standardized education, and bring out the potential that children have.
Each module (IoT block) with a specific function is a small robot block. These small robot blocks wirelessly communicate with each other and can be assembled very easily and quickly, so they can be created with robots of various shapes and functions.
These robots have three types of execution modes (smartphone coding / control, automatic operation, and linked PC coding programs), which can be used as smart toys for coding education.

Car Set - Product Component


x 2

Wheel


x 2

DC Motor


x 1

Proximity Sensor

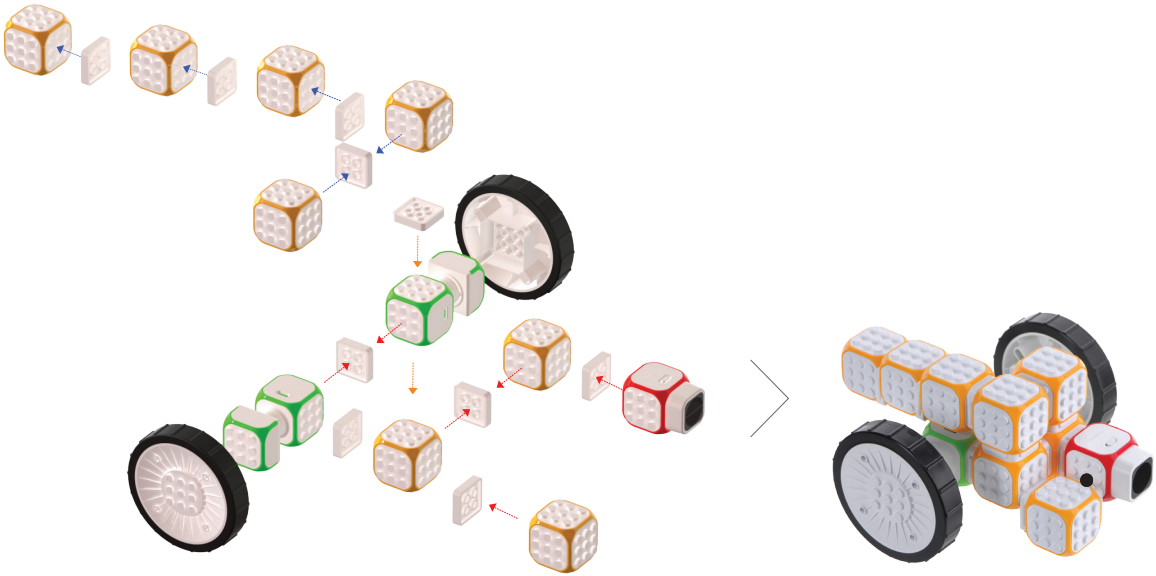

x 8

Cube


x 12

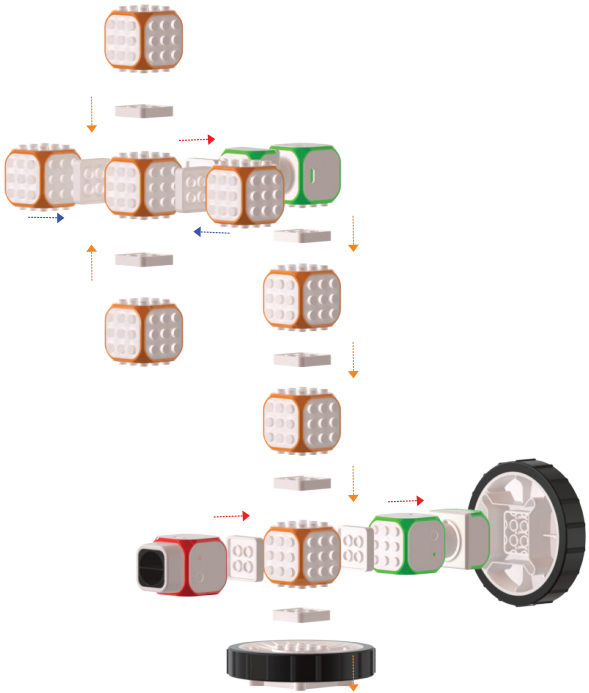
Connection

Car assembly drawing



- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 2X Wheel
- 12X Connection

Windmill assembly drawing



- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 2X Wheel
- 12X Connection

Robusta robot

- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 12X Connection

Gun robot

- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 12X Connection

Snake robot

- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 12X Connection

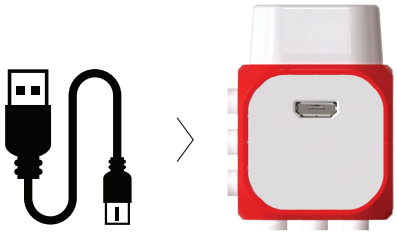
Gorilla robot

- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 12X Connection

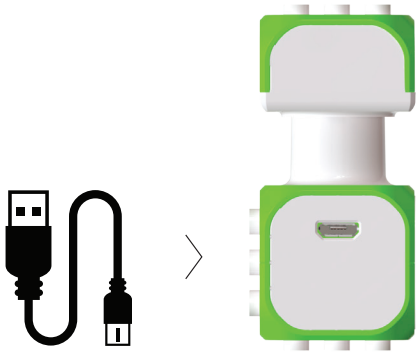
How to charge Cubroid

1. Connect the USB cable and USB charging adapter, then plug the external connector connection jack on the back of the Cubroid.

2. During charging, the red light on the LED next to the cubroid function button will be on, and blue light will be on when charging is completed.

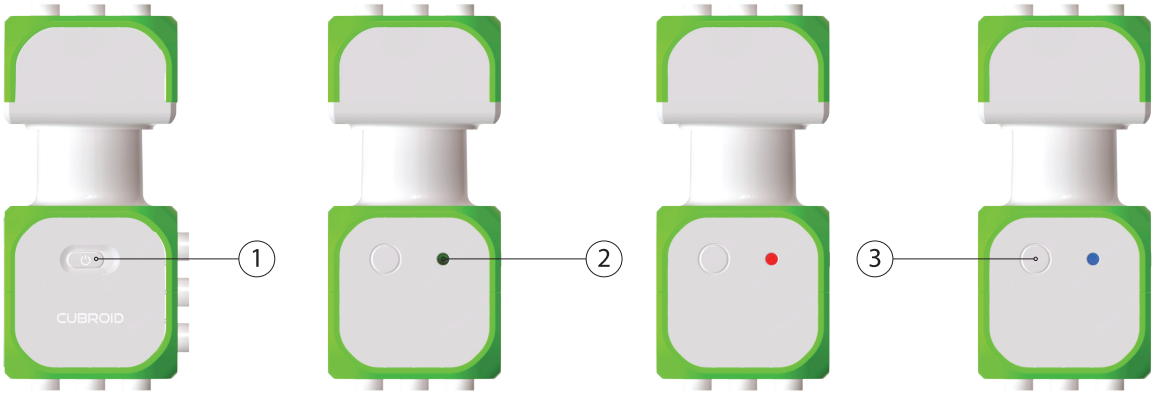


USB cable
(5V DC)



USB cable
(5V DC)

Cubroid function description



1. Slide power switch

2. Status LED

3. Function button

Power on
(green LED light)

During
wireless connection
(green LED flashes)

Charging
(red LED light)

Charging completed
(blue LED light)

DC Motor block

Forcibly turning the motor head is the cause of the malfunction.

Block that rotates a full 360 degrees

Proximity sensor block

Proximity detection sensor: Object detection function within 3 cm

Detection block when an object approaches

How to use Cubroid with smartphone app

1. Download the app
   Download the Cubroid app from the Apple App Store or Google Play.

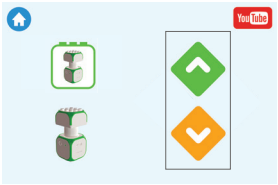
Download on the App Store

GET IT ON Google Play

2. Power on the DC motor block.

3. Connect Cubroid Block to Smartphone
   In the app, click the Block Registration button to select the block.

4. Play
   Click the direction button to control DC motor block.



5. Utilize smartphone apps
   Go to www.cubroid.com for more app use information.

How to use cubroid with scratch program

1. Download and install the scratch program
   scratch.mit.edu

2. Download and install the interlocking program
   of the driver and Cubroid
   www.cubroid.com

3. Utilize the scratch program
   Go to www.cubroid.com for more
   scratch coding education information.

User Precautions

Warning! Not available for children under 8 years. Including small parts.

Do not place near fire.

Do not wash.

Be careful that children do not swallow parts.

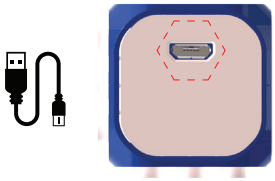
Frequency phrase using 2.4G band

The radio equipment cannot be provided with services related to personal safety due to the possibility of radio interference.

〈Explanation of the block functions available for additional purchasing〉

1. Master block

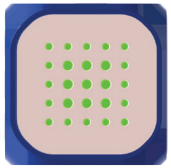
Control Blocks between sensor and actuator block



When connected to USB cable
➡ Enter scratch mode

When clicking function button
➡ Enter automatic operation mode

White LED
➡ Smartphone mode



Green LED
➡ Scratch mode

Blue LED
➡ Automatic operation mode

〈Explanation of the block functions available for additional purchasing〉

2. Sound block

Various sounding blocks

! When turning the motor head forcibly, be careful not to break

3. LED block

Blocks that can be expressed variously by using several small LEDs

8x8 Dot Matrix LED Display

4. Light sensor block

A block that detects the amount of ambient light

Please be careful because if you push strongly on this part, it may break when you assemble the block

Light detection sensor

5. Touch sensor block

A block for detecting the pressed state of the touch button

Please be careful because if you push strongly on this part, it may break when you assemble the block

Touch button

A/S Information

We will repair any defects in performance or function caused when normal use within the warranty period (1 year from the date of purchase). If the product cannot be repaired, we will replace the product.

Paid service Guide

- When the warranty period of the product has passed
- When the user's handling is neglected
- In the case of malfunctions caused by repairs outside of our customer center
- When the consumable parts have reached the end of life
- In case of product breakdown and damage caused by natural disasters

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