



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



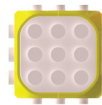
x 2

DC Motor



x 1

Proximity Sensor



x 8

Cube

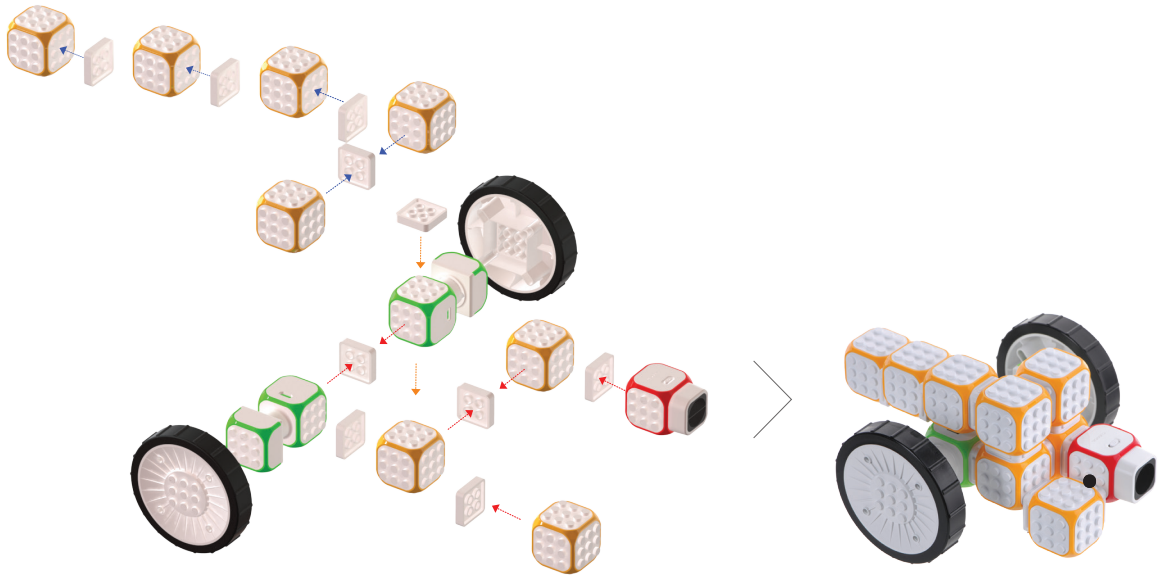


x 12

Connection



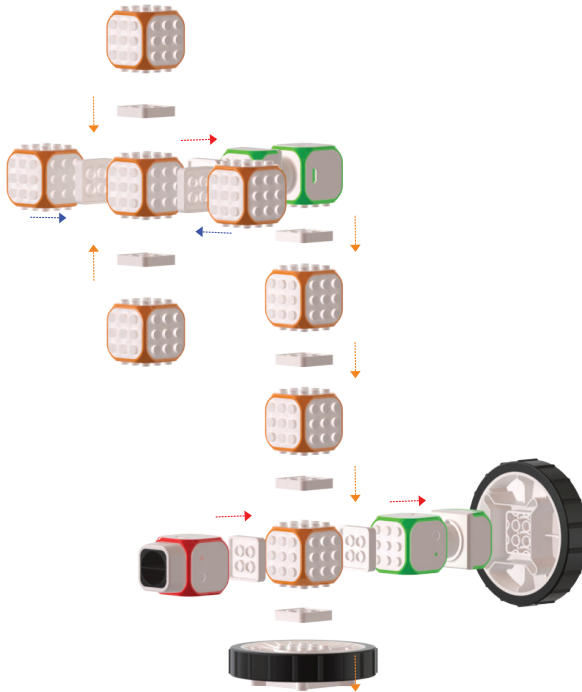
Car assembly drawing



- 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

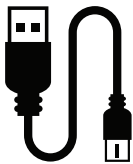
- 2X DC Motor
- 1X Proximity Sensor
- 8X Cube
- 12X Connection



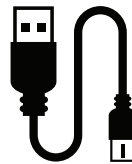


How to charge Cuboid

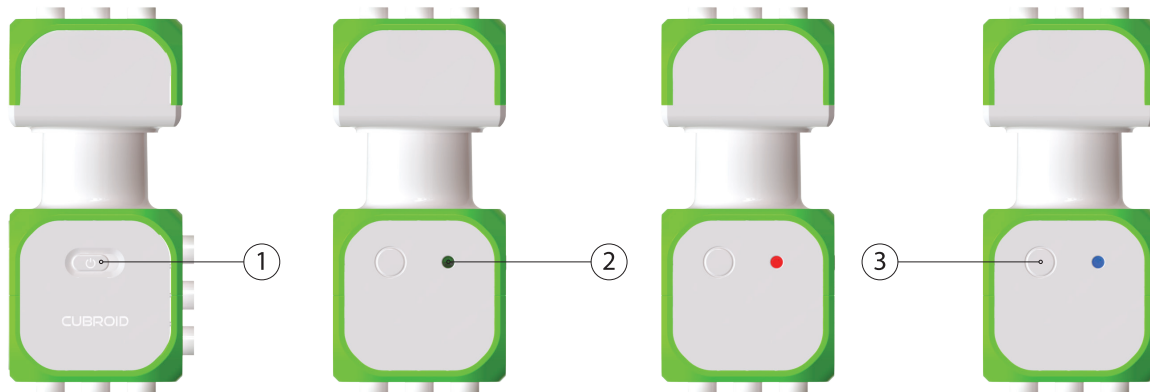
1. Connect the USB cable and USB charging adapter, then plug the external connector connection jack on the back of the Cuboid.
2. During charging, the red light on the LED next to the cuboid function button will be on, and blue light will be on when charging is completed.



USB cable
(5V DC)



USB cable
(5V DC)



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



Proximity sensor block



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



Block that rotates a full 360 degrees

FCC ID : 2APTT-CBMOT002

Proximity detection sensor: Object detection function within 3 cm



Detection block when an object approaches

FCC ID : 2APTT-CBPRO003



How to use Cubroid with smartphone app

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



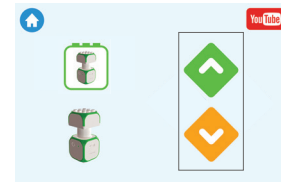
2. Power on the DC motor block.



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.

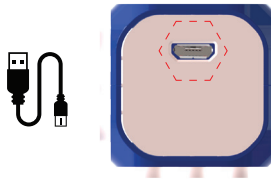


〈Explanation of the block functions available for additional purchasing〉

1. Master block

Control Blocks between sensor and actuator block

FCC ID : 2APTT-CBMA5001



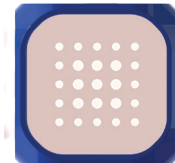
When connected to USB cable

➡ Enter scratch mode



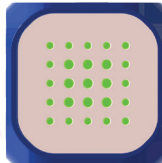
When clicking function button

➡ Enter automatic operation mode



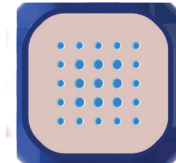
White LED

➡ 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



FCC ID : 2APTT-CBSOU005

3. LED block

Blocks that can be expressed variously
by using several small LEDs

8x8 Dot Matrix LED Display



FCC ID : 2APTT-CBLED004



<Explanation of the block functions available for additional purchasing>

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



FCC ID : 2APTT-CBLIG007

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



FCC ID : 2APTT-CBTOU006



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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FCC

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.

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.

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

This device complies with RF exposure requirement.



WWW.CUBROID.COM

Made in Korea

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