![COCONUT logo]

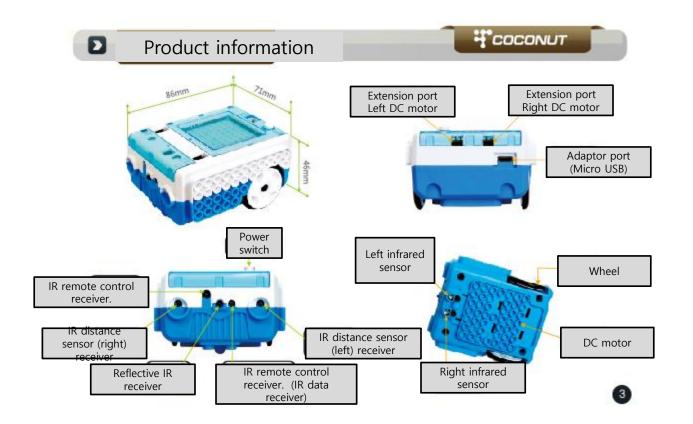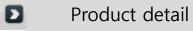# Coconut User's Manual

COCONUT

Coconut Robot is a driving robot that is designed to teach software cording in physical computing.

Product webstie : www.coco-nut.kr

This booklet only contains basic information of the product.. For more information and usage of the product, please visit our website. .

86mm
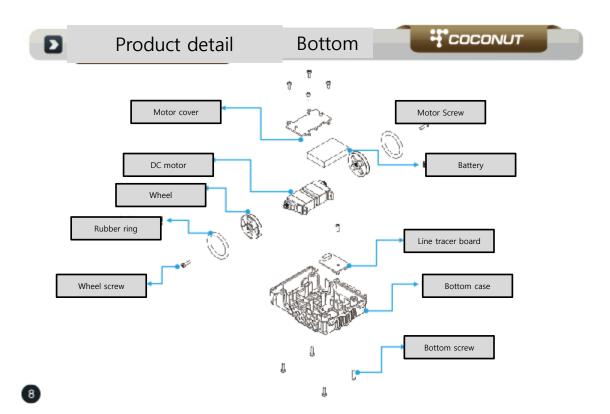71mm
46mm

Extension port
Left DC motor

Extension port
Right DC motor

Adaptor port
(Micro USB)

Power
switch

Left infrared
sensor

Wheel

IR remote control
receiver.

IR distance
sensor (right)
receiver

IR distance sensor
(left) receiver

DC motor

Reflective IR
receiver

IR remote control
receiver. (IR data
receiver)

Right infrared
sensor

3

COCONUT

IR Remote control receiver

IR Remote control transmission

IR distance sensor receiver

IR distance sensor transmission

Line tracer sensor

4

| DC motor extension port (left) | DC motor extension port (right) | USB adaptor and communication port |

COCONUT

RGB LED

A3

A2

Analog
extension port

USB to UART

Charged LED

Fully charged

Charging LED

Charging

D4

D10
(PWM)

Digital
extension port

6

Illuminance sensor

Piezo buzzer

Digital extension port

D12

D11 (PWM)

8x8 Dot Matrix

Power Switch

Power LED

Arduino D13 LED

7

COCONUT

Motor cover

Motor Screw

DC motor

Battery

Wheel

Rubber ring

Line tracer board

Wheel screw

Bottom case

Bottom screw

All parts are build by manufacturer

Top cover

Top case

Control board

Bluetooth USB

- Make sure excessive force is not applied to motor and wheel

- Speed of motor on each side may different depend on the DC motor

  Also the speed of the motor may changes as time usage

- Warranty of parts (motor, battery) is 6 months

  Motor and battery are consumable so if it is warned out or have problem, please buy a new part and change them.

- Please read instruction when you use In/ Out extension port

- There are 2 types of extension port, analog or digital

- If you connect wrong cable to wrong extension port, it may cause damage to the robot

  Please note that This warranty does not apply to damages resulting from misuse.

- There may be some problem with blue tooth communication depend on the communication environment

- Some changes on product may apply depend on updates by manufacturer.

Power on

Press power switch. Blue light on the left, near the wheel will be on with short beep sound when it is on.

Power off

Press power switch. Led will be off as robot power is off.

Charge

Connect Mirco USB connector to Coconut robot's USB port. Please turn off the robot before you charge it.

Battery condition indicator   Check the led on the right near the wheel.

Battery condition	Battery Indicator
Charging	Red indicator on
Fully charged	Yellow indicator on

Bluetooth connection

Please check our website to connect Bluetooth and USB dongle www.coco-nut.kr

Connecting scratch or Arduino. (or other software)

Please install related software and driver before you connect coconut to the software
Also check out website www.coco-nut.kr

Installing USB dongle

Note that you must install USB dongle driver before you connect dongle to your PC.

Device driver download

Download device driver to suit your PC OS from www.coco-nut.kr which include scratch,
Arduino processing install file.
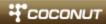Install device driver for your need.

Please check details of driver installation from our webstie

▶ Please note that below actions may cause fire, explosion or other damages

1) If there is any damage on battery that you can identify, please contact to manufacturer or distributor

2) Please use verified adaptor

3) Keep away from heat. (Do Not put it in the microwave)

4) Do not leave it in the car during summer

5) Do not use it in high temperature or humid condition

6) Do not use it on blanket, carpet etc for long time.

7) Do not use it in sealed area for longtime

8) Make sure that electrical port of coconut is not attached to metal materials such as necklace, coins, keys etc.

9) Please use certified lithium secondary battery

10) Do not dismantle or press with heavy weight.

11) Do not drop it from height or similar action to it.

12) Do not expose the product over 60C heat

13) Do not expose the product to moisture or water

Warranty

1. Exchange or refund of defected product can only made from place of your purchase

2. If there is any damage when you receive the product
You must contact your seller

3. You must present receipt within 7 days. Refund or exchange will only made for hardware defects not usage of software etc.

4. After 7 days of your purchase, we only provide replacement by warranty

5. You must present your receipt when you apply for your warranty.

6. Refund will not be made if there is any damage on the product or if there is any missing part.

Fees

Once there is any check up even without any repair, fee will be charged for general check up.
If the product is still under warranty, the fee will not be chaged.

Service information

Email: coco@coco-nut.kr
Website: www.coco-nut.kr

Product specifications

COCONUT

Blue tooth dongle specifications

Article	specifications
Size	62.5mm x 10.3mm x 18.4
Weight	7.5g
Communication	Blue tooth 4.0(BLE)

Coconut specifications

Article	사 양
Size	Width 86mm X lengh 71mm X hights 46 mm
Weight	125g
Function	Line tracer, avoider, Triaxle acceleration, dot matrix, coconut network, RGBX2, 8 external extension ports, light sensor, IR remote, Bluetooth etc.
Communication	Blue tooth 4.0(Bluetooth Low Energy)
Battery	Li-poly 3.7V 600mAh
Operating hour	About 1 hour

FCC Information

This device complies with part 15 of the FCC Results. Operation is subject to the following two conditions :

      (1) This Device may not cause harmful interface, and

      (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment 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 correct the interference by one or more of the following measures:

1.1. Reorient or relocate the receiving antenna.

1.2. Increase the separation between the equipment and receiver.

1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.

1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

"CAUTION : Exposure to Radio Frequency Radiation.

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit.

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