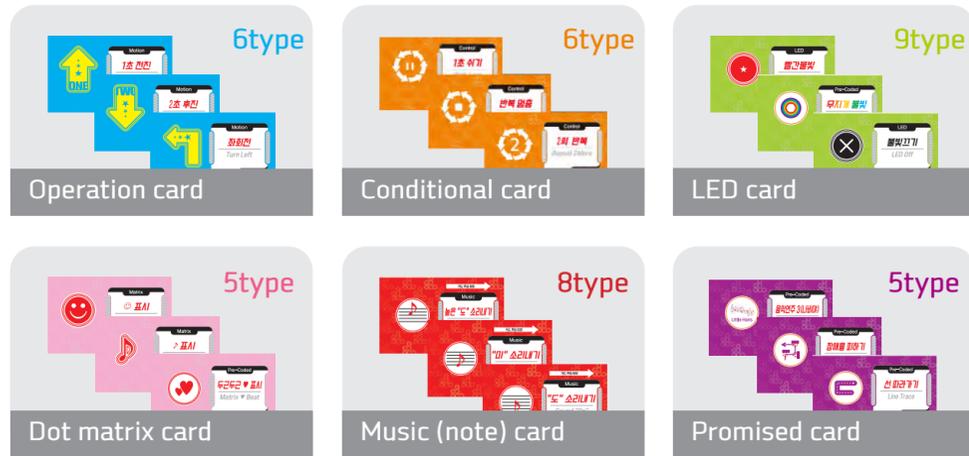


Unplugged coding teaching material Coconut Card Reader

Built-in basic sensor, buzzer, LED, motor, etc. can function various learning and you can easily learn the basic algorithm structure programmatically using a **coconut card reader** without a computer.



Coconut exclusive coding card



Educational tool for coding learning based on physical computing Coconut coding learning contents



Learning contents

- | | |
|--|---|
| 01.Features of coconut and PC connection | 11.Creating a constellation and smiley emoticon using coconut's dot matrix application |
| 02.Scratch installation and connection check | 12.Making a robot performing the instrument with coconut dot matrix and buzzer robotic production |
| 03.Drive coconut | 13.Creating programming algorithm with coconut dot matrix & buzzer multi-output |
| 04.Coconut motion block control | 14.Coconut input block display |
| 05.Understanding the algorithm and meaning of coconut movement | 15.Coconut IR block control |
| 06.Coconut RGB block control | 16.Coconut's Arduino mode |
| 07.Coconut driving and automobile programming using RGB | 17.Drawing the shape of coconut |
| 08.Coconut dot matrix block control | |
| 09.Following dot matrix pattern of coconut | |
| 10.Coconut buzzer block control | |

Easy coding with coconut

Coconut is an easy and fun way to learn coding with smart devices!

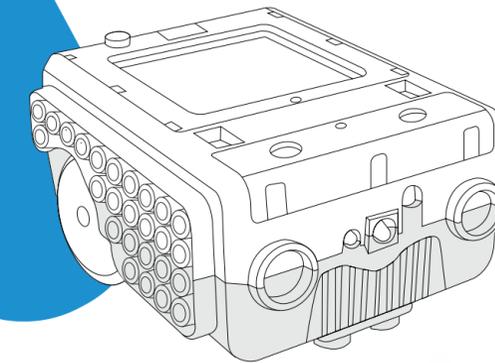
You can enjoy learning coding with block coding programming with coconut applications, exciting music playing and drawing dot matrix.

▶ Search **Coding Robot Coconut** on the Play Store.



www.coco-nut.kr

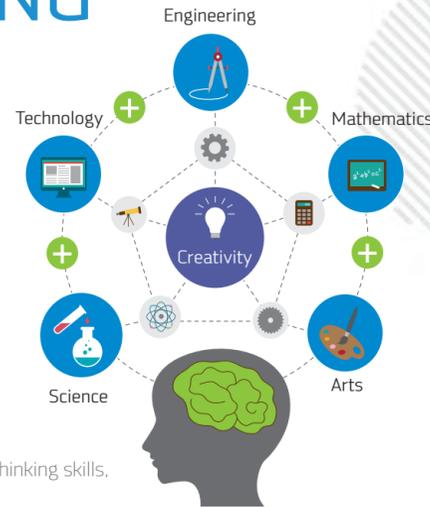
Take QR code and find out more about coconut-drone.



Huintech Co., Ltd T 061.727.3301 F 061.722.7330 E-mail coco@coco-nut.kr

Inquiries on group and individual purchase **061.727.3301**

ROBOT COCONUT STEAM EDUCATION SUPPORTING



What is Science, Technology, Engineering, Arts, Mathematics (STEAM)?

Education that enhances interest and understanding of problems and fosters convergent thinking and problem-solving skills based on science and technology

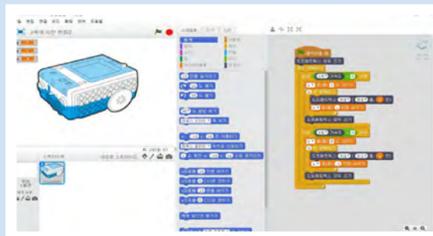
What is software (SW) training?

It is an education to develop computing thinking skills that creatively and effectively solve various problems based on the basic concepts and principles of software

What can we learn from software training?

- You can think in depth and improve cooperation.
- Enhanced self-directed learning.
- You can develop logic and problem solving skills through computing thinking skills.

Coding Learning Program Software (SW)



Scratch-based coconut coding program



Arduino-based coding program



Entry coding program provided

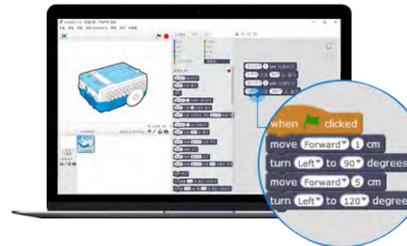


Smartphone application provided



Equipped with step motor!!

Upgraded to step motor with easily adjustable angle, **straightness and less variation between motors!**

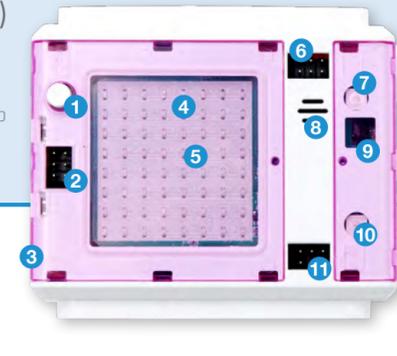


Adding program block

- 'centimeter' is movable by entering the distance value
- Various angles is adjustable (moving)

Coding Robot Coconut-Hardware (HW)

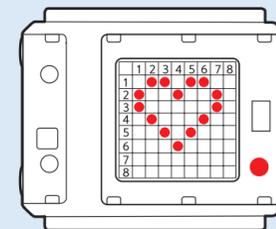
- Arduino Uno-based driving robot which is capable of coding scratch-entry interlocking programs
- Integrated robot with built-in basic sensor, buzzer, LED, step motor, etc.
- Physical computing-based software training is available



- 1 Power switch
- 2 External Dnalog Expansion Port
- 3 USB Port
- 4 8x8 Dot Matrix
- 5 3-axis Acceleration Sensor
- 6,11 External Digital Expansion Port
- 7,10 RGB LED
- 8 Piezo Buzzer
- 9 CDS Sensor

8x8 dot matrix LED

Coding robot expresses emoticons with numbers, Korean and English!



- LED matrix On (ROW 1) COL 2
- LED matrix On (ROW 1) COL 3
- LED matrix On (ROW 1) COL 5



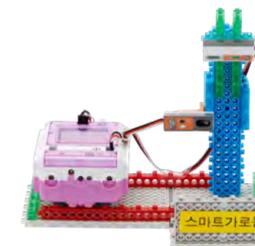
Creative convergence education in connection with other classes using various functions of coconut



Coconut Smart Package

Smart coconut is made directly using coconut, extended sensors, and blocks!

- Smart streetlight: Implementation of smart streetlight using IR sensor and LED sensor
- Smart flowerpot: Detecting the humidity of the flowerpot and automatically supplies water when water is insufficient
- Smart elevator: Smart elevator that automatically comes down when a person is detected using an IR sensor



Smart streetlight ▲



Smart flowerpot ▲



Smart elevator ▲

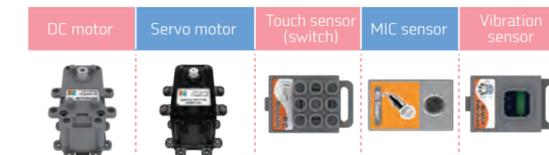
Coconut extension function

With the **coconut extension function**, you can freely use software and hardware without limit!



External block expansion ▲

- Sensor extension function: Additional functions is implemented by mounting various external sensors
- Block expansion function: Realizing various models by installing LEGO-type assembly blocks



Sensor expansion ▲

- Additional sensors is installed in addition to the basic sensor
- Additional software training is available through sensor extension
- It is configured to combine blocks on the left/right and bottom of coconut
- Classes are combined with creative imagination and play

