Learn & Play the coding with NEOBOT



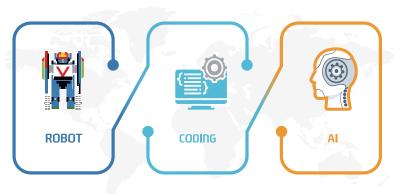
NEOPIA

100 1010 01



This is the moment! To learn 'NEOBOT'
This is the day! To meet easy and comfortable 'EDUCATION'.
Join NEOPIA! The first training of Robot/Coding/AI.

WORKS



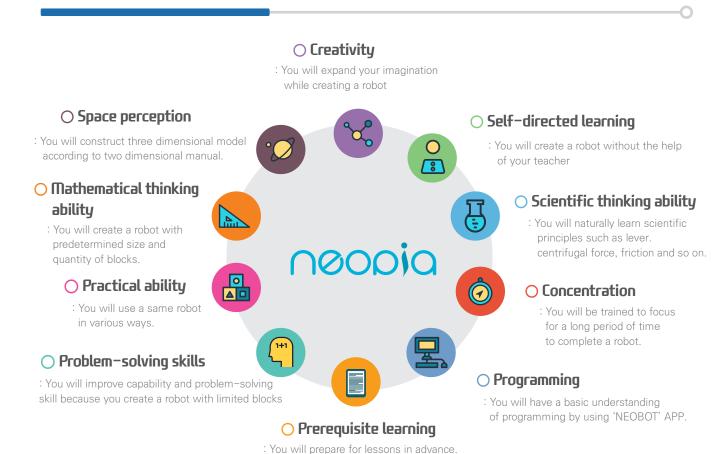
21'st centry will be dominated by creative talents who collaborate with various different ideas!

There is a new trend worldwide that many countries concentrate their efforts to make a fused educational model for cultivating creative talents.

So, toys are no longer just for playing, but it can be an educational tool and friend to enrich sense, intelligent, logical thinking, sociality, imagination, creativity, more skills, problem solving ability.

Therefore, NEOPIA products have become the standard education kit which combined fun and diverse range of educational contents to enhance children's ability by teaching for robot, computer coding, electronic circuit, information technology and basic artificial intelligence field.

Educational Benefits



LINE UP





















^{*} Build up System? You have to finish the previous step to advance to the next step.

NEO Think-Car

NEO Think-Car

- Movements presented in the textbook may can be different depending on several factors such as road condition, obstacles, battery out-put, and motor characteristics.
 At this moment, the self-driving function can be completed by modifying the program to suit each environment.
- Can create and apply robot that fit the situation while understanding the characteristics of various sensors.
- Can be learned intensively essential contents in robot education in a short time.
- Convenient coding with a cellular phone application!
- Systematic coding using the 'Entry' platform operated by portal site 'Naver' in Korea!

A to Z of Self driving car: All about the self-driving car

NEO Think-car



Teo Think-Car RDR5 (Advanced Driver Assistance Systems)

Neo-ThinkCar is an educational product that helps students to learn robot/coding/Al while making a car with blocks and applying each function of

'Advanced Driver Assistance System (ADAS)' through coding.

Experience everything about self-driving car with Neo-ThinkCar.

cheers to great driving.

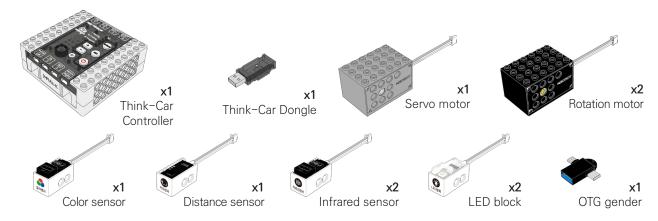
[Overview]

- ✓ Neo Think-Car is a product that codes and experiences self-driving functions.
 - Movements presented in the textbook may can be different depending on several
 factors such as road condition, obstacles, battery out-put, and motor characteristics.
 At this moment, the self-driving function can be completed by modifying the program
 to suit each environment.
- ✓ Neo Think-Car has 3 types of self-driving mode, and each type has 3 to 5 self-driving contents.
 - · A-Type: Practice for speed and parking control by using color sensors based on lane recognition on 2D road.
 - · B-Type: Steering control practice using servo motor and distance sensor based on obstacle recognition on 3D road.
 - · C-Type: Practice for driver convenience specifications and AI content (notebook/webcam and microphone required) based on the face and voice recognition.
- ✓ The content in each type has different practice hours or its difficulty, and
 one or more lessons can be producted to finish one content.

	А-Туре	В-Туре	С-Туре	
Car Type				
Practice Content	[Self-driving on general road] 01. Lane Keeping Assist 02. Intelligent Speed Control Assist 03. Auto Lane Change [Smart Parking Assist System] 08. Rear self-parking	[Self-driving on general road] 04. Adaptive Cruise Control 05. Obstacle Avoidance Driving [Alley(Maze) Self-driving] 06. Wall Detection Driving 07. Auto Alley Driving [Smart Parking Assist System] 09. Parallel Self-parking	[Convenience specifications and AI linkage technology] 10. Driver Easy Access 11. Driver's gaze steering	
How to practice	Utilize 2D road map	Utilize 3D road map & obstacles	Apply AI technology	
Coding Tool	NEOBOT APPLICATION (Cellular phone or Tablet PC)	NEOBOT APPLICATION (Cellular phone or Tablet PC)	ENTRY (Notebook/Webcam and Microphone required)	

NEO Think-CBC Main Configuration

[Electronic block]



[Accessories]



Assembling robot



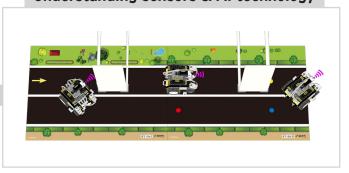
Coding



Apply Robot & Coding



Understanding sensors & AI technology



NEOCODING

- A product to learn the coding with 2 individual themes.
- Each product has 12 coding content organized into fun scenarios.
- PC (Desktop or Notebook) is required.
- The coding platform uses 'ENTRY' by operated portal site 'Naver' in Korea.
- Each product can be utilized independently. (Do not need to use in order)



Have you seen this kind of Coding before? When you touch the artwork, a sound comes and it works.



Children learn to code through fun activities such as assembling models and playing music, art, and games. (It is composed of 12 classes)

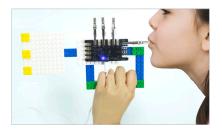


Weight: 0.70kg

Configuration: Art board(Controller), Earthring, Crocodile Clip cable, Blocks

Worksheet





Trumpet



Olympics in our village



Dismiss the bomb

SENSOR Theme



Coding, How long have you been coding? What kind of coding have you ever been?

Children learn to code by controlling the character in the computer using sensors connected to the assembling model. (It is composed of 12 classes)

Size: 275 x 200 x 65 mm

Weight: 0.50kg

Configuration: Sensor board(Controller), IR sensor, Light sensor, Sound sensor

LED block, Blocks



Do~ Re~ Mi Game



Invisibility Cloak



Robot Vacuum

ROBOT (Single Product)

NEOBOT START





- STEAM education is possible with just blocks.
- Assembly models





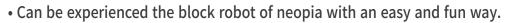








NEOBOT HOME





Main Configuration



Assembly models













NEOBOT SPECIAL

• It is an optimized product for understanding and learning the concept of robots prior to full-scale of robotics education.



• It offers robot control software(Built-in and coding program) with various frames and sensors

Main Configuration















ROBOT (Build up system)



- · 'NEOBOT' means 'robot' created by 'Neopia' and uses a block frame.
- It is composed of 4 steps from A to D and over 48 different types of robot can be assembled.

 (It cannot be used without the previous product.)
- Non-harmful multi assembly blocks with controller can be assembled 12 models per each step.
- · Provide abundant educational contents curriculum manual.

	S	Т	В	С	D	E
SIZE (mm)	310 x 220 x 80	310 × 220 × 80	310 x 220 x 80	310 × 220 × 80	310 x 220 x 80	310 × 220 × 80
Weight (kg) (without textbook battery)	0.75	0.60	0.80	0.75	0.60	0.55
Parts (pcs)	208	158	238	190	107	141

Key features

- 1. As an educational robot using blocks, you can systematically learn robot & coding & Al.
- 2. The goal is not to complete a wonderful work, but to learn how to create a robot.
 - Learn how to create a robot through an iterative process of assembling and disassembling, rather than completing and exhibiting a wonderful work and 'watching' it.

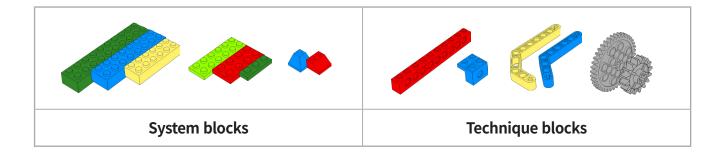






- 3. Mainly use the 'system block' together with the 'technique block'.

 —It is relatively easy to assemble and disassemble as it mainly utilizes system blocks.
- * 'NEOBOT' is a representative product of robot based on system blocks rather than technique blocks.

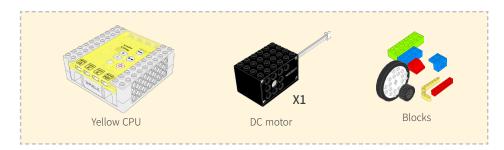


ROBOT (Build up system)

NEOBOT S



- A product that makes a robot and controls it with a wired remote controller.
- The basic level for adapting to assemble robot using blocks.
- Main configuration

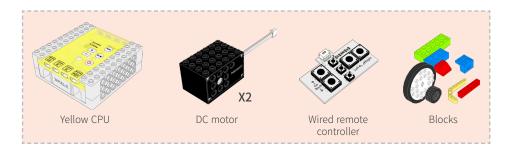


Assembly models



NEOBOT T

- A product that makes a robot and controls it with a wired remote controller.
- The basic level for adapting to assemble robot using blocks.
- Main configuration





NEOBOT B



- Can be controlled the robot with a wireless remote controller and 12 new contents are added.
- Can be possible to create new model freely, and it is a step in which robot movements can be sequentially coded.
- Main configuration

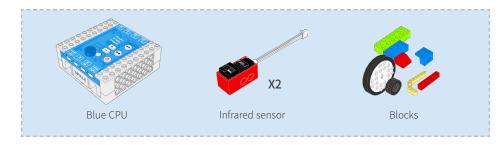




NEOBOT C



- The robot can be controlled using sensors and make it possible to run it more fun activity.
- There is a controller with built-in program to run the robot for each content.
- Main configuration





ROBOT (Build up system)

NEOBOT D



- Can be possible to code directly the robot's movement using a cellular phone(Android series) APP.
- Most functions for robot coding can be implemented even without a computer.
- Main configuration

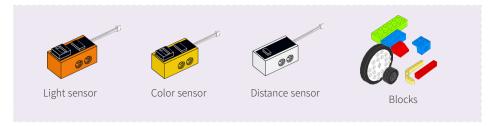


Assembly models



NEOBOT E

- Can be controlled the robot with a wireless remote controller and 12 new contents are added.
- Can be possible to create new model freely, and it is a step in which robot movements can be sequentially coded.
- Main configuration





ROBOT & CODING

NEOSOCO



New software coding NEO SoCo



Robot! Coding! Al! Kit to learn all SW education!

Size: 285 x 205 x 70 mm

Weight: 1.1kg

Configuration: Programming controller, OTG, Dongle, Motor, Distance sensor,

Infrared sensor, Sound sensor, Light sensor, LED block

Coding Tool: Can be possible to code directly the robot's movement

using a cellphone (Android series) APP

1. Auto connect and Auto pairing!

Just plug the dongle into your cellphone or tablet pc and turn on the power to automatically connect! Can be assembled 11 models and to code movement!





① Connect OTG dongle



2 Turn on the power of controller

CONTENTS...

PART 1

What is sensors [APP Coding]

It can be easily and accurately learned the principles of robot and sensor.

1 Learning distance sensor and buzzer [Neocar]

02 Learning LED Block [Kobibot]

03 Learning the sound sensor [Barami]

04 Learning the light sensor [Neo Beagle]

05 Learning the infrared sensor [Pengguini]

06 Applying the light sensor [Neo Cleaner]

107 Applying infrared sensor **[Line Tracker]**

PART 2

IoT & AI [Entry Coding]

It can be learned a loT and AI with fun from voice control to machine learning.

01 Self- driving [Smart Car]

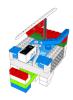
02 Biometrics [Face ID Door]













NEOCIRCUIT







Make a electronic circuit by blocks!

Block type breadboard, the world's first developed and patented product

Size: 225 x 165 x 55 mm

Weight: 0.45kg

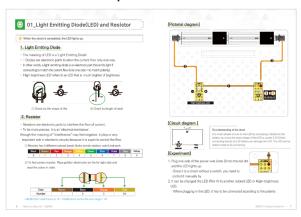
Configuration: Electronic block, LED, Switch, Speaker, Resistor, Cds, Melody IC

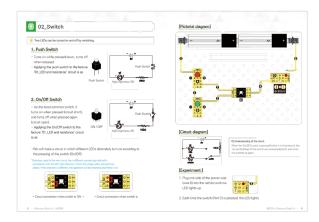
Transistor, Capacitor and so on.



- Neo circuit can easily understand electronic circuits by describing circuits with the flow of current.
- Neo circuit is a block type to assemble easily, and it can be modified at any time and can be used repeatedly.
- · Neo circuit has a pictorial diagram which marked parts and wire connections in order, which is convenient for group classes.

1. Textbook Composition





NEOSOUND

Neo Sound



Assemble easy alone DIY!

Exciting made with blocks Making!

Excellent sound with highperformance speakers Sound!

Learn to electicity and electron

Education! Education!

Let's assemble the Bluetooth speaker with blocks! Easy and fun Circuit education

Size: 120 x 95 x 140 mm

Weight: 0.4kg

Configuration: Bluetooth module, Electronic blocks, Speaker(5W),

Assembly drawing, Battery Power cord, blocks(68ea)

- · No tools required (non-soldered, block type)
- · A circuit configuration using the patented electron
- · Easy wires connection by processing the ends of wires specially.
- · Excellent sound quality (5W), various expandability.



HISTORY

History of Neopia!

1999

School

- NEOPIA is established in 1999
- NEOPIA holds 4 technology patents, 7 design patents, and 6 trademark patents in the field of robotics and coding.
- NEOPIA is a certified technology company that has successfully completed the technical development projects of the Ministry of Knowledge Economy of korea since it was established through "the new technology start-up project(TBI)" and "next-generation digital leader training business".
- NEOPIA products are currently being used in after-school and robot club activity classes in more than 15 years in primary, middle, and high schools in korea.
- NEOPIA products have been using in primary and middle school government textbooks in korea as a teaching materials for a robot, electronic, and coding education fields.



NEOPIA products are selected in korea school text book



