Robot · Coding · AI

Learn & Play the coding with NEOBOT

NEOPIA

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.

neopia

www.neobot.co.kr

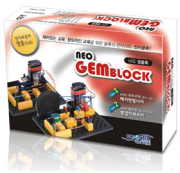
HISTORY

History of Neopia!

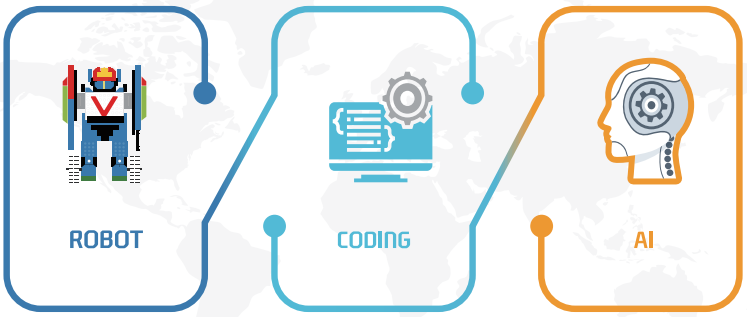
1999

- 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

	2002 ~ 2009	2009 ~ 2011	2011 ~ 2017	2017 ~ Present
Elementary School				
Middle School				

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

Creativity
: You will expand your imagination while creating a robot

Space perception
: You will construct three dimensional model according to two dimensional manual.

Mathematical thinking ability
: You will create a robot with predetermined size and quantity of blocks.

Practical ability
: You will use a same robot in various ways.

Problem-solving skills
: You will improve capability and problem-solving skill because you create a robot with limited blocks

Prerequisite learning
: You will prepare for lessons in advance.

Self-directed learning
: You will create a robot without the help of your teacher

Scientific thinking ability
: You will naturally learn scientific principles such as lever. centrifugal force, friction and so on.

Concentration
: You will be trained to focus for a long period of time to complete a robot.

Programming
: You will have a basic understanding of programming by using ‘NEOBOT’ APP.

LINE UP

ROBOT
(Build up system)

Age 7+

NEOBOT A | NEOBOT B | NEOBOT C | NEOBOT D

ROBOT
(Single product)

Age 7+

NEOBOT Unplugged

NEOBOT Home

NEOBOT Special

ROBOT & CODING

Age 10+

NEO SoCo

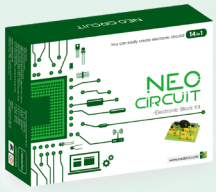
CODING

Age 10+

ART THEME

SENSOR THEME

ELECTRONIC



NEO Circuit Age 10+

NEO Sound Age 7+

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

ROBOT (Build up system)

- **'NEOBOT'** means 'ro**bot**' created by '**Neo**pia' 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.

	A	B	C	D
SIZE (mm)	310 x 220 x 80	310 x 220 x 80	310 x 220 x 80	310 x 220 x 80
Weight (kg)	1.4	1.3	1.3	1.3
Parts (pcs)	244	240	193	185

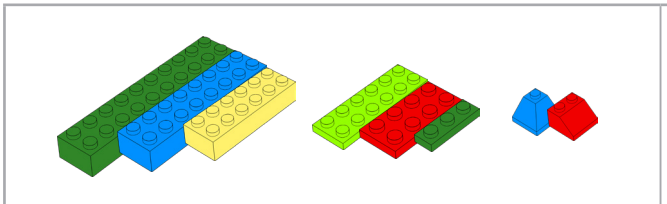
Key features

1. As an educational robot using blocks, you can systematically learn robot & coding & AI.
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.

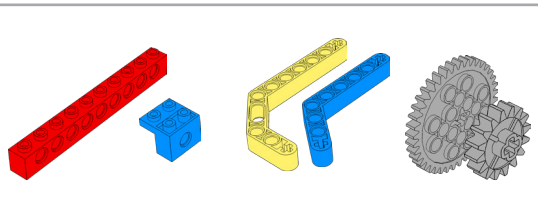


3. Mainly use the 'system block' together with the 'technique block'.
   -It is relatively easy to assemble and disassemble as it mainly utilizes system blocks.

* **'NEOBOT'** is a representative product of robot based on system blocks rather than technique blocks.



System blocks



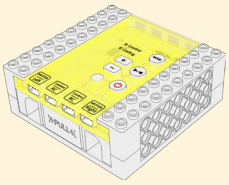
Technique blocks

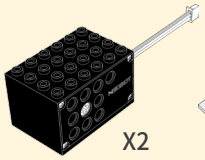
ROBOT (Build up system)

NEOBOT A

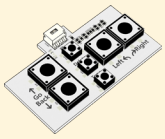
- A product that makes a robot and controls it with a wired remote controller.
- The basic level for adapting to assemble robot using blocks.

Main configuration

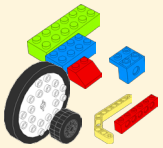

Yellow CPU



DC motor


Wired remote controller

Book


Blocks

Assembly models

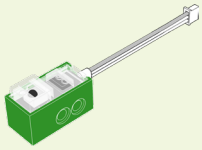
12 Models

NEOBOT B

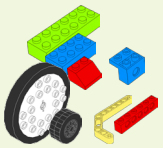
- Can be controlled the robot with a wireless remote controller and 12 new contents are added.
- Can be possible to create new model freely, and it is a step in which robot movements can be sequentially coded.

Main configuration


Wireless remote controller


Remote receiver

Book


Blocks

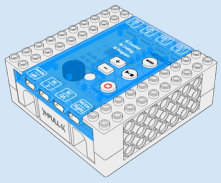
Assembly models

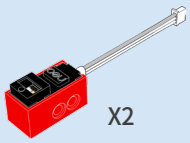
12 Models

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.

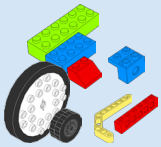
• Main configuration


Blue CPU



Infrared sensor

Book


Blocks

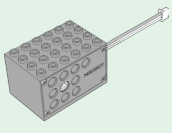
• Assembly models

12 Models

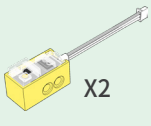
NEOBOT D

- Can be possible to code directly the robot's movement using a cellphone (Android series) APP or 'ENTRY' served by 'naver' in korea.
- Most functions for robot coding can be implemented even without a computer.

• Main configuration

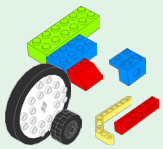

Servo motor


APP & OTG set



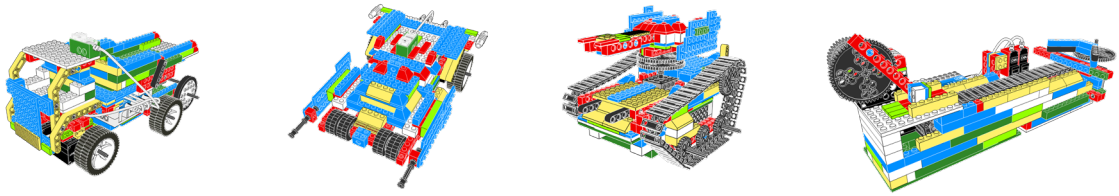
LED block

Book


Blocks

• Assembly models

12 Models



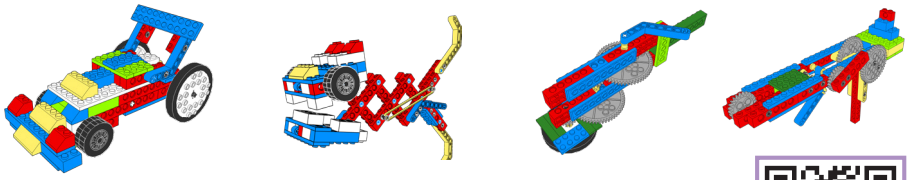
ROBOT (Single Product)

NEOBOT UNPLUGGED

- A product that learns mechanical structure and scientific principles by using blocks without using a motor or remote controller.
- STEAM education is possible with just blocks.

● Assembly models

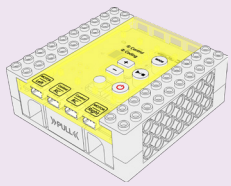
10 Models

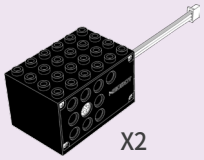


NEOBOT HOME

- Can be experienced the block robot of neopia with an easy and fun way.
- It is consist of 10 models with a remote controller to learn the robot mechanism and movement.

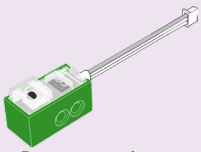
● Main Configuration


Yellow CPU

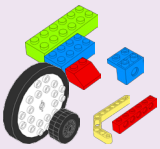


DC motor


Wireless remote controller

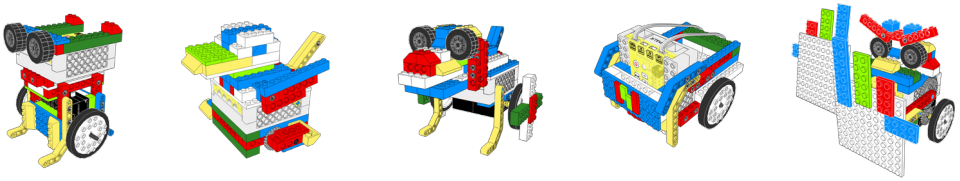

Remote receiver

Book


Blocks

● Assembly models

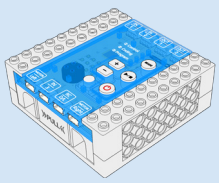
12 Models

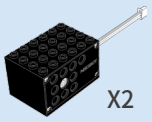


NEOBOT SPECIAL

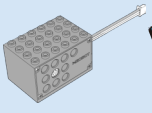
- It is an optimized product for understanding and learning the concept of robots prior to full-scale of robotics education.
- It offers robot control software(Built-in and coding program) with various frames and sensors

● Main Configuration


Blue CPU

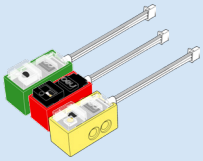


DC motor

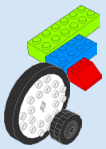

Servo motor


APP & OTG set


Wireless remote controller

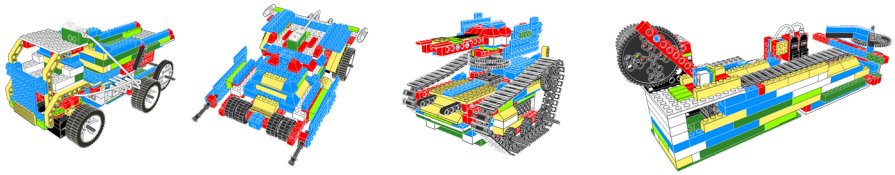

Remote receiver
Infrared sensor
LED block

Book


Blocks

● Assembly models

25+ Models



NEOSOCO

New software coding

NEO SoCo

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

Size : 285 x 205 x 70 mm

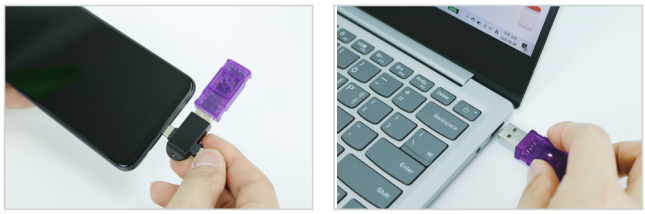
Weight : 1.1kg

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]

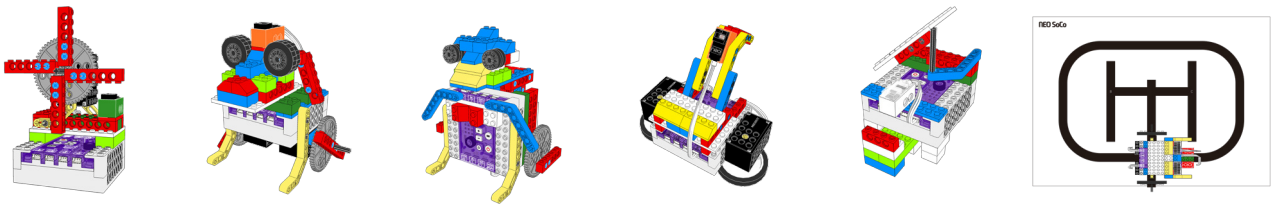
It can be easily and accurately learned the principles of robot and sensor.

01	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]
07	Applying infrared sensor	[Line Tracker]

PART 2 IoT & AI [Entry Coding]

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

01	Self- driving	[Smart Car]
02	Biometrics	[Face ID Door]
03	AI Player	[Magic Band]
04	Machine Learning	[AI Director Neo]



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)

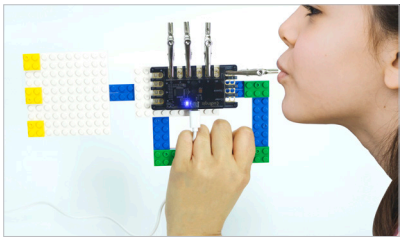
ART Theme

Coding with a story

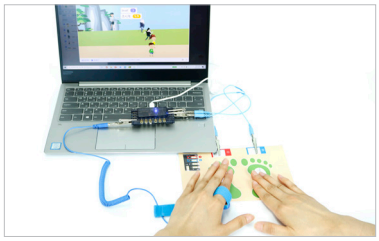
Have you seen this kind of Coding before?
When you touch the artwork, a sound comes and it works.

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

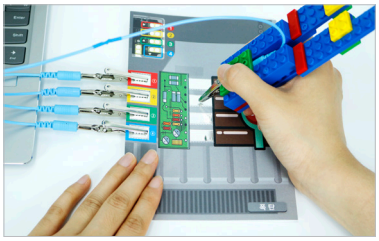
Size : 275 x 200 x 65 mm
Weight : 1kg
Configuration : Art board(Controller), Earthring, Crocodile Clip cable, Blocks Worksheet



Trumpet



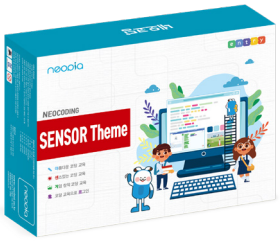
Olympics in our village



Dismiss the bomb

SENSOR Theme

Coding with a story

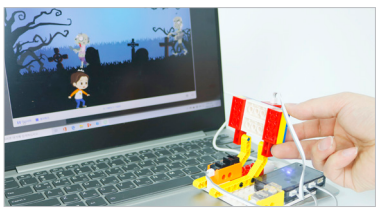


Coding, How long have you been coding?
What kind of coding have you ever been?

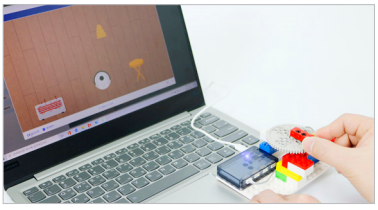
Children learn to code by controlling the character in the computer using sensors connected to the assembling model. (It is composed of 12 classes)

Size : 275 x 200 x 65 mm
Weight : 0.8kg
Configuration : Sensor board(Controller), IR sensor, Light sensor, Sound sensor LED block, Blocks

Do~ Re~ Mi Game



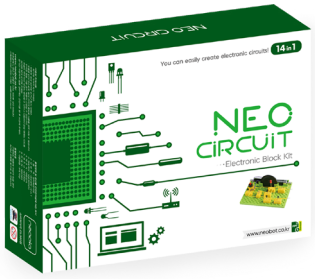
Invisibility Cloak



Robot Vacuum

NEOCIRCUIT

NEO CIRCUIT



14 Models

Make a electronic circuit by blocks!

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

Size : 225 x 165 x 55 mm

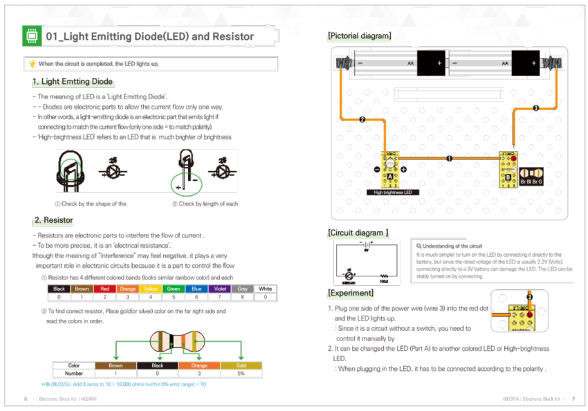
Weight : 0.45kg

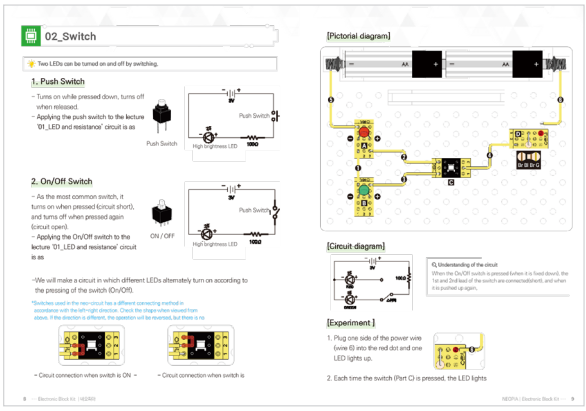
Configuration : Electronic block, LED, Switch, Speaker, Resistor, Cds, Melody IC Transistor, Capacitor and so on.

Key features

- 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

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)

Assemble easy alone DIY!
Exciting made with blocks Making!
Excellent sound with high-performance speakers Sound!
Learn to electicity and electron Education! Education!

Key features

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

Learn & Play the coding with NEOBOT

NEOPIA

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