CO:DEEP

: Programming All by Yourself

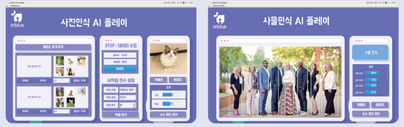
From Basic to Advance Levels
From Block-Based Coding to Command-Based Programming!

New to Programming?

Learn the basic knowledge (concepts, operational mechanisms, hands-on experience, etc) of programming through CO:DEEP, and go on to the next level.

Want to Learn Real-Life Skills?

Through detailed comments about the statements, learn about command-based programming and acquire real-life skills.



Want to Learn about AI?

Learn about Artificial Intelligence, from basic concepts to practical experience

Self-Learning Methods through CO:DEEP

STEP. 01
Video Lecture
Video lecture inside CO:DEEP enables learners to follow each steps.

STEP. 02
Run Exercises
Learn the basic concepts of programming through given exercises.

STEP. 03
Source Code
Visually observable source codes will lead to easy understandable programming principles.

STEP. 04
Detailed Comments
Detailed comments on every statement enable easy learning of programming principles.

STEP. 05
Practice Programming
Experience programming by writing statements directly

STEP. 06
Check Results
Check if your statements are in order by observing whether the sensors operate properly.

Product Information

Model	CO:DEEP
Product Dimension	387(W) x 283(D) x 55(H) (mm)
Sensor Types	LED, Fan, Vibration-Motor, Vibration-Detection, Temperature-and-Humidity, Ultrasonic Wave, Sound
Composition	Jetson Nano, Micro SD Card 64GB 7 Sensors, Board PCB, etc
Monitor Specification	15-inch LCD 1920 x 1080(FHD)
Power Input	15V 4A
Connectable Interfaces	USB x3, HDMI x1, Stereo jack
Expansion Ports	3pin * 7, 4pin * 3
Lesson	Scratch (27) + AI (7) Python (27) + AI (7)

Model	CO:DEEP Charger
Product Dimension	612(W) x 617(D) x 1107(H) (mm)
Internal Capacity	24 Max
Power Consumption	220V
Features	Tempered glass, Air-cooled cooler
Image	

G2B / S2B

Product Line	Product Name	G2B & S2B Identification Number	Price	Remarks
Education SW	CO:DEEP	24492362 (G2B)	3,980,000₩	G2B
Multimedia Learning Device	CO:DEEP	24989339 (G2B)	3,800,000₩	G2B
	CO:DEEP Textbook (Integrated Version)	202403048235914 (S2B)	180,000₩	S2B
	CO:DEEP	202310047268574 (S2B)	3,980,000₩	S2B
CO:DEEP Charger	CO:DEEP Charger	202409049416797 (S2B)	3,300,000₩	S2B

Textbook

Learners'

Teachers'

Patents and Certifications

IOT PLUS
Add Value with IoT

Headquarters : F-403 13, Gyoyuk-gil, Naju-si, Jeollanam-do, Republic of Korea
Corporate research institute/facility : F-402 and F-301 13, Gyoyuk-gil, Naju-si, Jeollanam-do, Republic of Korea
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www.iotpluskorea.com

www.iotpluskorea.com

Programming Learning System

CO:DEEP

Programming & Deep Learning

IOT PLUS
Add Value with IoT

Do Programming for Yourself!

No.1

CO:DEEP

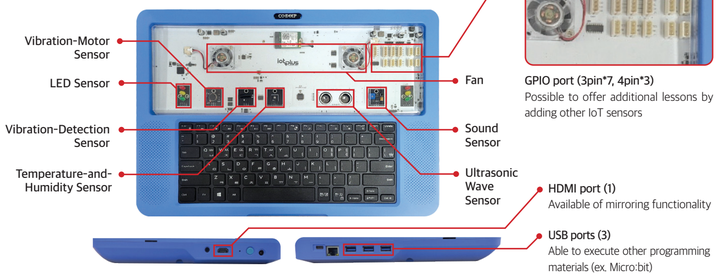
Programming & Deep Learning

CO:DEEP, an AI·SW programming education tool, is an all-in-one system which users can experience programming and write statements on their own.

Scratch		Python	
스크래치 Block-Based Coding	AI 교육 AI	파이썬 Command-Based Programming	AI 교육 AI

Sensor Configuration

By directly controlling 7 different IoT sensors in Scratch or Python, you can observe the operation and confirm your sentences.



Features and Advantages

Possible to Teach and Learn Without Prior Research

- Possible to teach programming without prior research using the provided teachers' guide.
- Provide different level textbooks for learners and offer 68 video lectures to enable self-directed learning.

All-in-One Tool for Programming

- Possible to learn Scratch (Block-Based Coding), Python (Command-Based Programming), and AI in one device.

From Experiential Learning to Real-Life Skills

- Learners can write sentences on their own, and visually confirm whether the sentences they wrote controls the operation.

Textbook & CO:DEEP Charger

Textbook

- Provide basic&advanced curriculum per level.
- Education curriculums based on the level of the learner.
- Able to proceed with learning after setting the level course.

Teachers' Guide

- More detailed explanations in the guide.
- Able to teach without prior studies about programming.
- Capable of teaching by levels through provided guide.

CO:DEEP Charger

- Easy Storage & Charge
- Prevention of product damage
- Ease of management

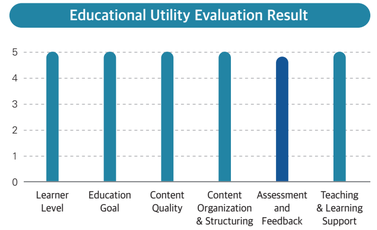
Expected Effects

- ☑ Possible to establish concepts about programming.
- ☑ Possible to nurture ICT professionals.
- ☑ Possible to nurture developers in AI, Big Data programs, and more.
- ☑ Possible to nurture future generation's creativity.
- ☑ Possible to reduce technology gap between countries.

Expert-and-Educator-Endorsed Outstanding Product

인공지능교육 수업활동 레시피

Empirical Institution :
Chungnam Provincial Office of Education 충청남도교육청
Empirical Evaluation Team :
Chungnam Provincial Office of Education: 10 elementary, middle, and high school teachers.
Empirical Evaluation Results :
Educational utility evaluation result: 4.99 out of 5



Curriculum

Level	Contents		
Background	LESSON 1	LESSON 1 Learning the Background of Programming and the Terms of Scratch	Learning the Background of Programming and the Terms of Python
	LESSON 2	Learning the Basic Syntax of Scratch	Learning the Basic Syntax of Python
	LESSON 3	Exercise	Exercise
Basic	LESSON 4	Controlling the LED Module	
	LESSON 5	Controlling the Fan Module	
	LESSON 6	Controlling the Vibration-Motor Sensor	
	LESSON 7	Controlling the Sound Sensor	
	LESSON 8	Controlling the Vibration-Detection Sensor	
	LESSON 9	Controlling the Ultrasonic Wave Sensor	
	LESSON 10	Controlling the Temperature-and-Humidity Sensor	
Intermediate	LESSON 11	Cross-Operating the LED Module	
	LESSON 12	Cross-Operating the Fan Module	
	LESSON 13	Controlling the LED Module using the Sound Sensor	
	LESSON 14	Controlling the Fan Module using the Sound Sensor	
	LESSON 15	Controlling the LED Module using the Temperature-and-Humidity Sensor	
	LESSON 16	Controlling the Fan Module using the Temperature-and-Humidity Sensor	
	LESSON 17	Controlling the LED Module using the Ultrasonic Wave Sensor	
	LESSON 18	Controlling the Fan Module using the Ultrasonic Wave Sensor	
	LESSON 19	Controlling the Speaker using the Ultrasonic Wave Sensor	
	LESSON 20	Controlling the Vibration-Motor Sensor using the Ultrasonic Wave Sensor	
	LESSON 21	Controlling the Fan Module using the Vibration-Detection Sensor	
	LESSON 22	Controlling the LED Module using the Vibration-Detection Sensor	
Advance	LESSON 23	Constructing High-Temperature-Warning System using the Temperature-and-Humidity Sensor	
	LESSON 24	Constructing High-Temperature-Ventilation System using the Temperature-and-Humidity Sensor	
	LESSON 25	Constructing Earthquake-Detection System	
	LESSON 26	Constructing Break-in-Detection System	
	LESSON 27	Constructing Auto Fan using Ultrasonic Wave Sensor	
AI	LESSON 28	Learning the Background of AI	
	LESSON 29	AI Image Recognition	
	LESSON 30	AI Face Recognition	
	LESSON 31	AI Alphabet Recognition	
	LESSON 32	AI Voice Recognition	
	LESSON 33	AI Video Effect	
	LESSON 34	AI Object Recognition	