Connect and Delight





The easiest and most intuitive way to learn coding.

MODI is a modular robotics kit professionally developed in-house at LUXROBO. Our two main products are our Hello IOT Kit and our Expert Kit. Each kit contains input, output and setup modules that allow learners to acquire key concepts across computer science and coding curriculums in a fun and engaging way. Through hands-on, project-based activities learners of all ages are able to tackle problems logically while developing their critical thinking and computational thinking skills. In combination with a STEAM curriculum, 3D printing, and LEGO, MODI classes really come alive!

Aligned to CSTA and ISTE

Our professionally developed curriculum is aligned with key computer science and coding standards. During class time, learners cooperate with each other and work in groups. Group work helps students develop interpersonal and social skills. Through MODI projects, communication and collaboration are emphasized just as much as creativity and critical thinking. Making smart plants, LEGO creations, and 3-D printer projects allow students to express their creativity while solving real world problems and having fun. Coding has never been so fun or easy!





MODI Studio, CODE Sketch & MODI Play

LUXROBO developed an intuitive drag-and-drop approach to coding that learners love. MODI blocks make it easy to bring any creation to life. Simply connect modules in any direction in any sequence and customize their behavior using **MODI Studio** or **CODE Sketch**. In MODI Studio just drag and drop the blocks and start to code even if you've never learned coding before. (Available for Windows and MacOS). **MODI Play** is an app for tablets and mobile devices. After coding with **MODI Studio** or **CODE Sketch**, use the **MODI Play** app to connect your modules to your tablet or phone wirelessly by Bluetooth. Try out the cool on-screen functions like the joystick, button, slider, dial, and timer. Now you can control your creations with just a tap or swipe.

Hello IoT

Ages | 6+Number of Modules | 7Languages | English, Korean, Chinese



Setup



Network Module

Supports USB, Bluetooth and Wi-Fi communication.



Input



Dial Module

Measures the rotation value and rotational velocity of the dial.

Output



LED Module

Emits light of different colors using an RGB value.



Making Pack

Ages | 6+Number of Projects | 12Languages | English, Korean, Chinese

Available Resources

РРТ

Videos



PPT files

User Manual



Bring your MODI modules to life with the exciting accessories available in the Making Pack! Transform your MODI components with a few simple folds to create a car, a crocodile, a mouse, and more! Add in a bit of code to MODI Studio, and you can make a Wheel of Fortune! These are only some of the examples of the different things that engage kids and spark their coding creativity!

Activity

Sheets



Battery Module

Supplies power.



Button Module

Detects clicks, double clicks, pressure status and toggle.

Motor (2) / Motor Controller Module (1)

Outputs rotary movements according to specified angles, speeds, and forces. One motor controller controls up to two motors.





Designer Kit (includes Making Pack Vol. 1)

Ages | 6+ Number of Modules | 7 Languages | English, Korean, Chinese



Setup



Network Module

Supports USB, Bluetooth and Wi-Fi communication.





Dial Module

Measures the rotation value and rotational velocity of the dial.

Output



LED Module

Emits light of different colors using an RGB value.



Making Packs

Number of Projects | 10 **Ages** | 6+ Languages | English, Korean, Chinese

Available Resources



CODE Sketch MODI Play Manual

Bring your MODI modules to life with the exciting accessories available in the Making Pack! Transform your MODI components with a few simple folds to create a car, a crocodile, lighthouse, and more! Add in a bit of code to our CODE Sketch app, and you can make a helicopter! These are only some of the examples of the different things that engage kids and spark their coding creativity!





Supplies power.



Button Module

Detects clicks, double clicks, pressure status and toggle.

Motor (2) / Motor Controller Module (1)

Outputs rotary movements according to specified angles, speeds, and forces. One motor controller controls up to two motors.



Expert Kit S M Ages I 6+ Languages I English, Korean, Chinese EXPERTK Number of Modules I 21 **Available Resources I** PPT Video PPT **MODI Studio MODI Play** Activity User Sheet Manual Input -Infrared Module (2) **Microphone Module Environment Module** Measures proximity. Measures the volume and Measures temperature, humidity, illuminance and RGB brightness. (0% to 100%) frequency of sounds. **Gyroscope Module Dial Module Button Module** Measures tilt angles, vibration level, Detects clicks, double clicks, Measures the dial's rotation pressure status and toggle. acceleration, and angular velocity. value and rotational velocity. Output –



LED Module

Emits light of different colors using an RGB value.



on the screen.

Display Module

Displays images and text

Motor (4) / Motor Controller Module (2)

Outputs rotary movements according to specified angles, speeds, and forces. One motor controller controls up to two motors.



Ultrasonic Module

Measures distance. (50cm to 450cm)



Speaker Module

Outputs sounds in different notes and intensities.

Setup



Network Module (2)

Supports USB, Bluetooth and Wi-Fi communication.



Battery Module (2)

Supplies power.



Master Kit







Ages | Higher education Languages | English, Korean, Chinese Number of Modules | 24 Added item | Contents book and guided USB Available Resources | 92 creations

Made for professors & high school teachers

Input -



Infrared Module (2)

Measures proximity. (0% to 100%)



Microphone Module

Measures the volume and frequency of sounds.



Environment Module

Measures temperature, humidity, illuminance and RGB brightness.

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Gyroscope Module

Measures tilt angles, vibration level, acceleration, and angular velocity.



Button Module

Detects clicks, double clicks, pressure status and toggle.



Dial Module

Measures the dial's rotation value and rotational velocity.

Output –



LED Module

Emits light of different colors using an RGB value.



Display Module

Displays images and text on the screen.



Ultrasonic Module Measures distance.

(50cm to 450cm)



Motor (4) / Motor Controller Module (2)

Outputs rotary movements according to specified angles, speeds, and forces. One motor controller controls up to two motors.



Speaker Module

Outputs sounds in different notes and intensities.

Setup



Network Module (2)

Supports USB, Bluetooth and Wi-Fi communication.



Battery Module (2)

Supplies power.







hello Al Kit



Optional Modules Output-



Ages | 6+ Languages | English, Korean, Chinese Number of Modules | 7 optional modules

The **hello AI Kit** uses the Entry (similar to Scratch) block coding language to teach the basics of AI. Simply mount the MODI AI module on the included tripod or monitor mount, and students can experiment with AI. The MODI AI module has a camera, microphone, and speaker builtin opening up a world of possibilities. With the hello AI Kit and Entry, use your mic, speaker and camera to utilize Entry AI features that include face recognition, text recognition, audio detection, voice recognition, speech-to-text, and more. Curriculum also provided.



LED Module

Emits light of different colors using an RGB value.



Display Module

Displays images and text on the screen.





Motor (2) / Motor Controller Module (1)

Outputs rotary movements according to specified angles, speeds, and forces. One motor controller controls up to two motors.

Setu



Network Module

Supports USB, Bluetooth and Wi-Fi communication.

AAA Battery Module

Supplies power.







Code Sketch



Code Sketch is an all-in-one app ideal for learners at home or school. It connects and programs MODI modules wirelessly using Scratch, the intuitive block-based visual programming language developed by MIT. Students can learn by trying out custom code or following along with fun educational videos for Making Pack creations. It's a breeze for first timers and experienced coders alike. Unlock student creativity and enhance learning with Code Sketch!











Your tablet can become the ultimate MODI module, with several features in one.



Use Scratch drag & drop coding to easily create anything you want.

Fun videos teach how to assemble and code the Making Pack creations.

Connect wirelessly to MODI modules and see their input and output values in real time.





MODI Studio is an exclusive coding program, where your creativity can be shown. Easy for those who have never studied coding before!



Press Status == TRUE disolay1 Text, Helio



MODI Play



MODI Play has a variety of functions and can be used on your smart phone or tablet. Install MODI Play and make infinite projects!





Using a Bluetooth connection, enjoy more than 10 different functions using a remote control!



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Discrete Sector Contraction of the sector of