

Build & Program your own robotic creations!

■ CREATOR 5710K-E02 ■



■ CREATOR 5710K / 5720T ■



■ EXPERT 5730K ■



Innovative Educational Robot with Motion Files shared via the Internet

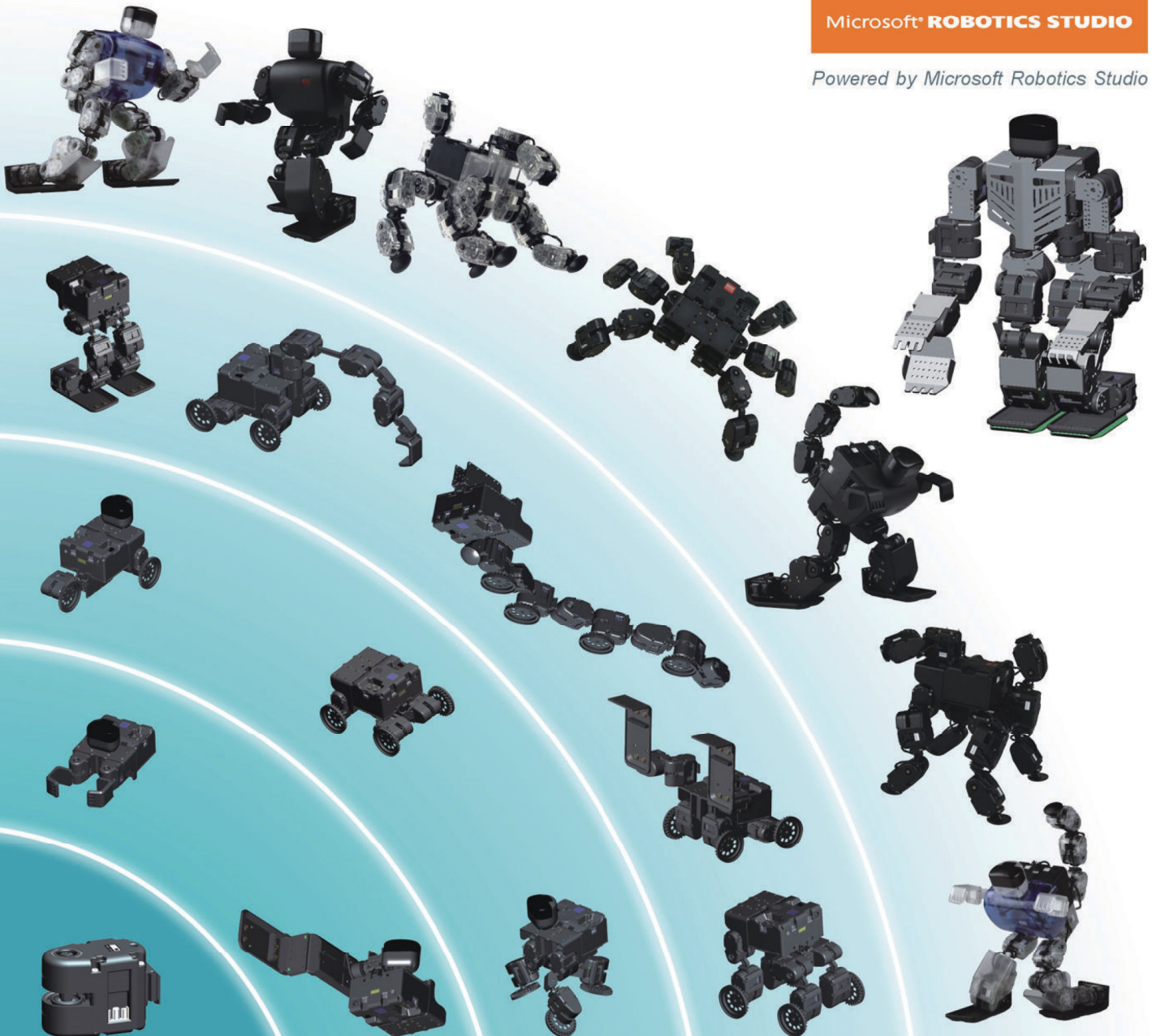


The Robot Builder's DIY Transformable Kit

# UPGRADE YOUR INTELLIGENCE

Microsoft® **ROBOTICS STUDIO**

*Powered by Microsoft Robotics Studio*



RoboBuilder Co., Ltd.





# ROBOBUILDER

## Fun-to-learn Robotic Kit. Build a humanoid robot within 1 hour!

RoboBuilder is a new robotic DIY kit designed to provide robot enthusiasts with the value of Education and Entertainment. Design and build various robots simply by plugging together block-type robotic actuator modules. Without programming, users can download robotic motion files from the Internet and play them on the RoboBuilder platforms.

Microsoft® **ROBOTICS STUDIO**

### Functions

Remote Control •  
Object Detection ★ •

16 Degree of Freedom /  
wCK Robotic Module

Quick & Simple •  
Joint Assembly



Lighting



- Korea Robot Awarded Product in 2008! -



★ Option items by Kit

Full-Duplex dropdown  
UART serial communication

Intelligent Robot Controller



PC Connection

Speaker System ★

Sound Detection

Acceleration Sensor/★  
Bluetooth Communication ★

### Features

#### Educational Kit

- Educational DIY Kit for Robotic Technology Training
- Training of Precise PID Motion Control
- Study manuals for phased education steps

#### Creative Building

- Create Various Robots enabled by Block-type Robotic Module
- Creative Robot Programming with Modularized Software

#### Quick & Simple Joint-Assembly

- Internationally Patented Joint Insertion Building Structure
- Building completed within 1 hour

#### Attractive Design

- High tech Robot with Attractive Design
- Customize unique Robot with optional accessories.

#### Robot File Sharing

- Share Robotic Files on Internet
- File Sharing realized by Precise Motion Control Technology

#### Entertaining Pal

- Various Games Supported by Quick & Splendid Robotic Motions
- Catalyst for Robotic Culture & Community
- 30+ Motions Playable with Remote Control immediately after Building

#### Competitive Price

- Most Price Competitive Robotic DIY Kit in the World
- Maximum Value for global Robot Enthusiasts at Lowest Cost

Precise PID Motion Control

Intuitive Software

Robot File Sharing Service

### Fun to Study

**Step1** Design & build various robots

**Step2** Download and play motion files

**Step3** Modify downloaded motion files

**Step4** Create new motion files

**Step5** Program action files with sensor interactions

**Step6** C programming

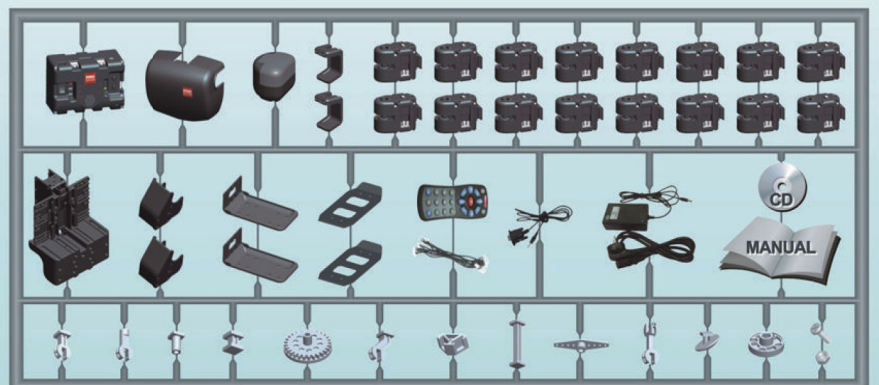
Build, Program, Run your own Robot!



## >> Kit Model

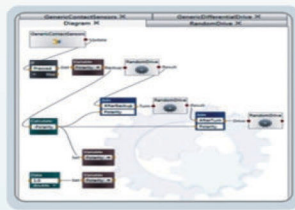
Model	RDK-5710K-E02	RDK-5710K	RDK-5720T-S02	RDK-5730K
Color	Black	Black	Transparent	Black
DOF	8	16	16	20
Sound Sensor	Y	Y	Y	Y
Acceleration Sensor	N	N	N	N
Voice	N	N	Y	Y
Communication	IR remote control, Expandable for Bluetooth	IR remote control, Expandable for Bluetooth	IR remote control, Expandable for Bluetooth	IR remote control, Bluetooth

## >> Parts Include

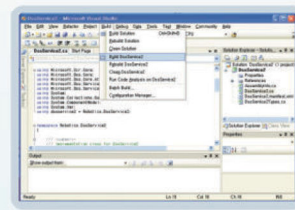




# MSRDS – RoboBuilder Application



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- Visual Programming Language

- C#, VB.Net  
- C++.Net, Python

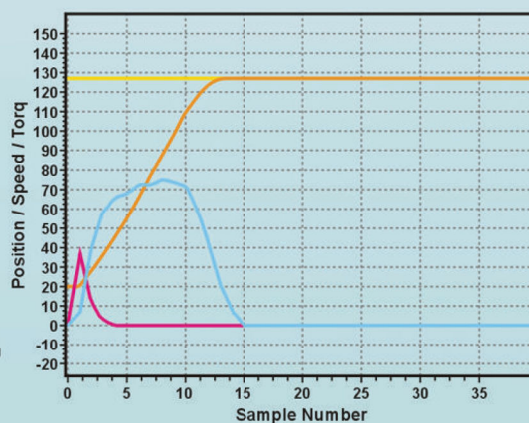


## wCK Intelligent Modular Robot

### Features

- All-in-One integrated robot module
- Compact Design
- 2 way mechanical power transmission
- Quick & Simple joint assembly
- Precise PID control
- Error compensation algorithm
- Position control, Speed control, Torque control
- Multi-drop Full Duplex UART serial communication
- Control optimized protocol
- External I/O support(1A/I, 2D/O)
- Standalone Motion programmable
- Passive Sensor Mode, Power-saving Break Mode
- Various parameters, Various speed levels
- Voltage-adaptive automatic adjustment of control gain
- Windows-based programming software
- Wide range of Input voltage
- Wide range of operating angle
- Reverse-voltage protection, over current protection
- Two metal bearings for mechanical durability

### Response Characteristics



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<http://robosavvy.com>