

Build & Program your own robotic creations!

■ **CREATOR 5710K-E02** ■



■ **CREATOR 5710K/5720T** ■



■ EXPERT 5730K ■



Innovative Educational Robot with Motion Files shared via the Internet



ROBOBUILDER

The Robot Builder's DIY Kit



RoboBuilder Co., Ltd.



ROBOBUILDER

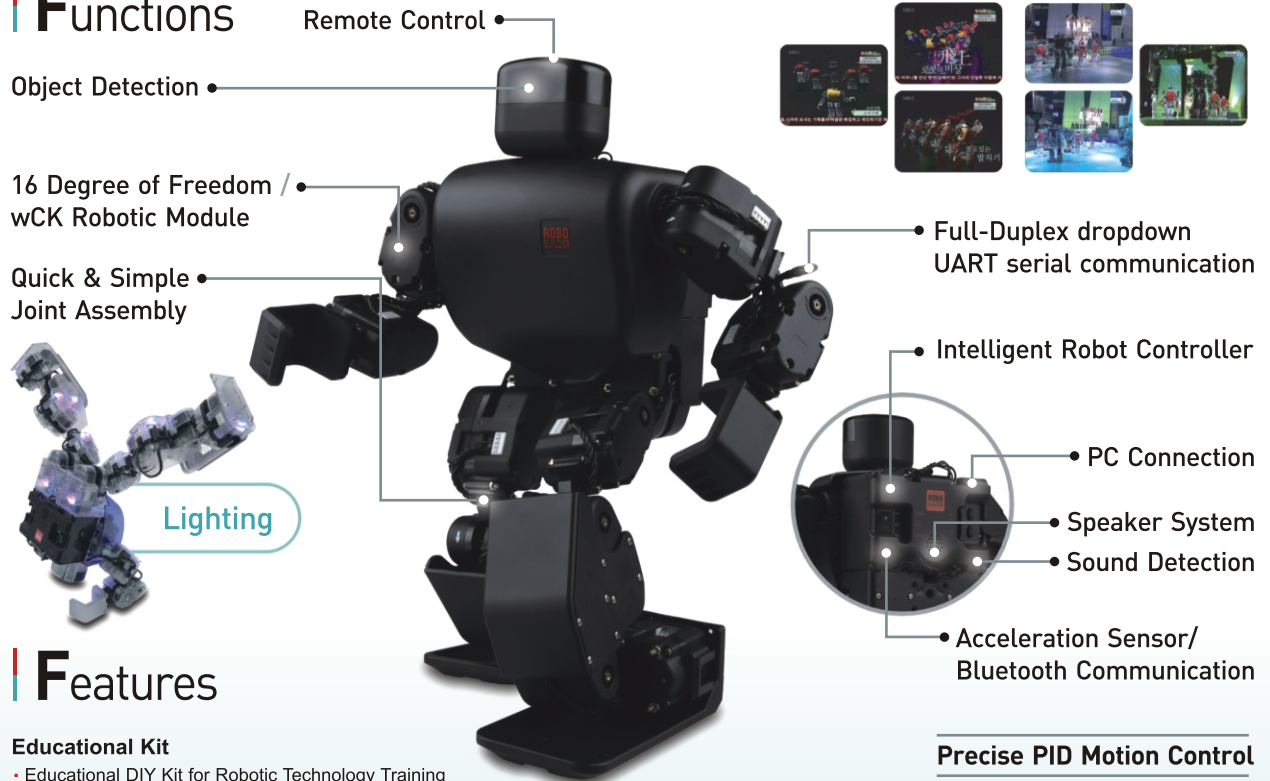
Fun-to-learn Robotic Kit. Build a humanoid robot within 1 hour!

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.

Functions



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

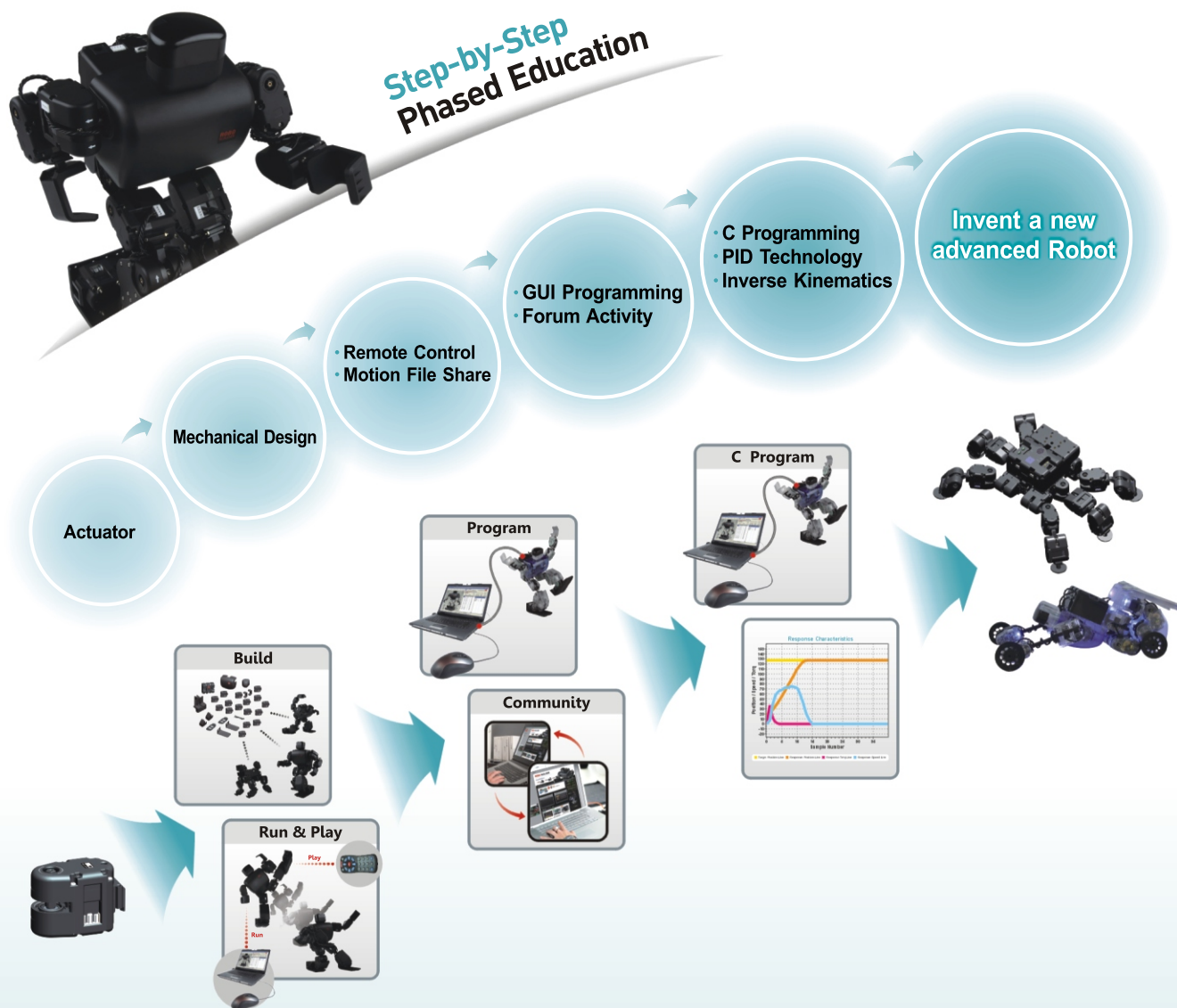
Step3 Modify downloaded motion files

Step4 Create new motion files

Step5 Program action files with sensor interactions

Step6 C programming

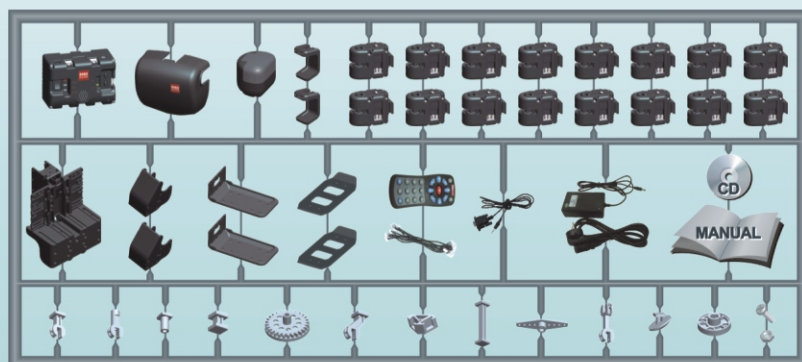
Build, Program, Run your own Robot!



>> Kit Model

Model	RBK-5710K-E02	RBK-5710K	RBK-5720T-S02	RBK-5730K
Color	Black	Black	Transparent	Black
DOF	8	16	16	20
Sound Sensor	Y	Y	Y	Y
Distance Sensor	Y	N	Y	Y
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



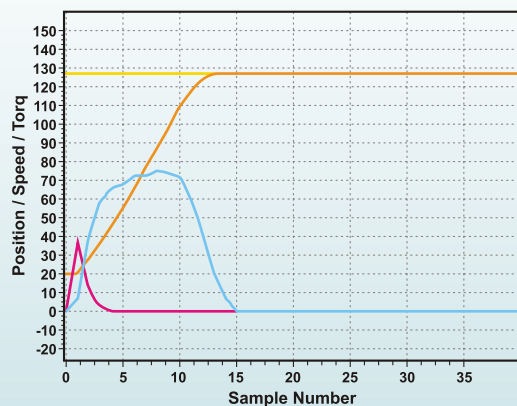
wCK Intelligent Modular Robot



Features

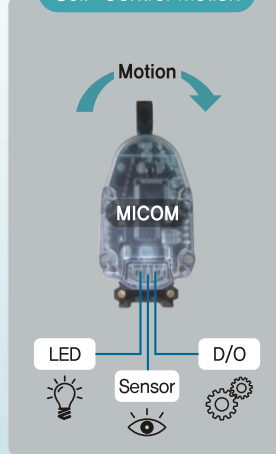
- All-in-One integrated robot module
- Compact Design
- 2 way mechanical power transmission
- Quick & Simple joint assembly
- Precise PID control
- Error compensation algorithm
- Position control, Speed control, Torque control
- Multi-drop Full Duplex UART serial communication
- Control optimized protocol
- 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



■ Target Position Line
 ■ Response Position Line
 ■ Response Torq Line
 ■ Response Speed Line

Self-Control Motion



Application

- Articulated Robot Platforms for toy, commercial, educational purposes
- Robots for game & battle
- Tool set for science education program
- Applications of multi-axis distributed control for research engineers



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