

# ROBOBUILDER 5720T-A03 (C-YA-A-00124)

This **ROBOBUILDER 5720T-A03** is robot from ROBOBUILDER Company, Korea. It uses 16 of DIGITAL SERVO MOTOR to perform, it is dependent to adjust format of assembly according to idea or creativity because there is outstanding joint of Motor that is easy to connect together. It designs the joint of Motor better than general robots.



\* This ROBOBUILDER is only designed for users with age 14 and up \*



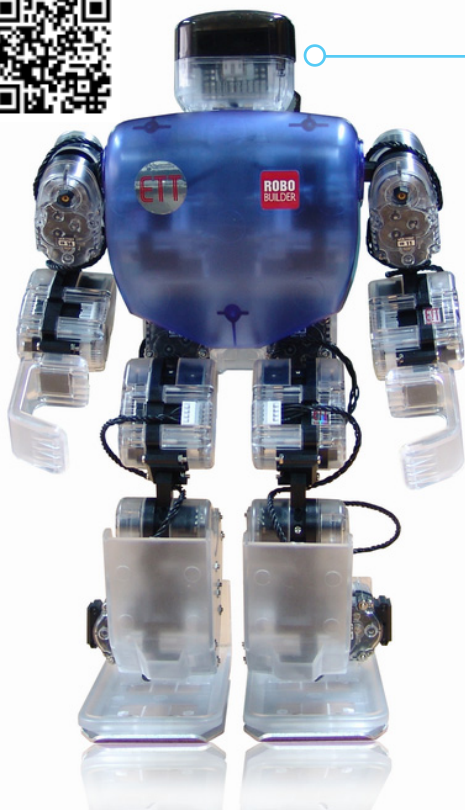
**HUNO:** Humanoid Robot with 2 legs



**DINO:** Dinosaurian Robot with 2 legs and tail



**DOGY:** Doglike Robot with 4 legs



### Specifications of ROBOBUILDER 5720T-A03

- HUNO Robot with 2 legs is 28.5cm. in height and 1.25kg. in weight
- Structure of robot and 16 of DIGITAL SERVO MOTOR is transparent plastic, user can see through the internal mechanization with 2 colored LEDs inside SERVO; in this case, user can enable/disable these LED to ON/OFF according to the motions of robot. Control degree of rotation, control SPEED of rotation, so user can control speed and motions of the robot well.
- Has circuit internal the robot to measure acceleration and incline of axis X, Y, Z (ACCELERATION SERVO)
- Board Controller uses MCU No.ATMEGA128 from ATMEL
- Use BATTERY NI-MH 8.4V, including DC ADAPTER for recharging BATTERY
- Has REMOTE CONTROL to control the robot by INFARED

### Program and Command

- Run on OS WINDOWS XP, VISTA, 7 in the format of GRAPHIC; command or adjust the operation in the format of C Language or other Languages of AVR as preferred
- DOWNLOAD the written program into the robot through PORT RS232 (can use PORT USB, it provides "USB TO RS232 ET-USB/RS232 MINI" in the kit)
- Can DOWNLOAD the latest COMMAND or MOTION from INTERNET: <http://www.robobuilder.net>
- Expand and add more connection in the near future such as DISTANCE SENSOR, SOUND DETECTION, ACCELERATION SENSOR, BLUETOOTH



### ROBOBUILDER 5710K and 5720T-A03 include...

1. Assembled robot in the platform of HUNO
2. REMOTE CONTROL
3. Cable DOWNLOAD RS232
4. ET-USB/RS232 MINI
5. NI-MH 8.4V BATTERY, and DC ADAPTER to recharge BATTERY
6. CD-ROM Program and User's Manual
7. High quality plastic box to keep robot ET-BOX1

★ ETT provides devices and spare parts of SERVO and ROBOBUILDER's body to serve our customer who buys this product from ETT. It can be checked and repaired instantly, without sending to aboard, 1-year warranty for ROBOBUILDER that is ordered from ETT.



## WCK-1111K (A-MO-M-00124)

## / WCK-1108K (A-MO-M-00123)



It is DIGITAL SERVO MOTOR that uses MCU ATMEGA8 to control the operation of internal SERVO in the format of PID CONTROL (+-0.8 degree).

- WCK-1111K runs at 6-10VDC, TORQUE 11kg/ cm., 1.8A MAX
- WCK-1108K runs at 6-10VDC, TORQUE 8kg/ cm., 1.8A MAX
- Can rotate through 360 degrees, so it can be wheel.
- Can control the position of rotation in the range of 0-333 degrees
- Transmit-recvie data into MOTOR in the format of MULTI-DROP FULL DUPLEX UART (TTL); moreover, it can be interfaced with many MOTOR together.
- Can choose SPEED and rotational direction.



## RBO-JOINT03 BLK (A-MO-M-00125)

## / RBO-JOINT02 BLK (A-MO-M-00126)



It is plastic joint assembly to hold DIGITAL SERVO MOTOR of ROBOBUILDER and it can be compatible with version WCK-1111K, WCK-1108K. The SERVO MOTOR can be adapted and modified into various types such as arm machine or other as required, Now, there are 2 versions.



- RBO-JOINT01 BLK has totally 39 pieces in 11 types of joint assembly.

It is the only one DIGITAL SERVO MOTOR that has machine system and plastic joint assembly together, so user can be interface and assemble robot independently.

- RBO-JOINT02 BLK has totally 8 pieces in 8 types of joint assembly.