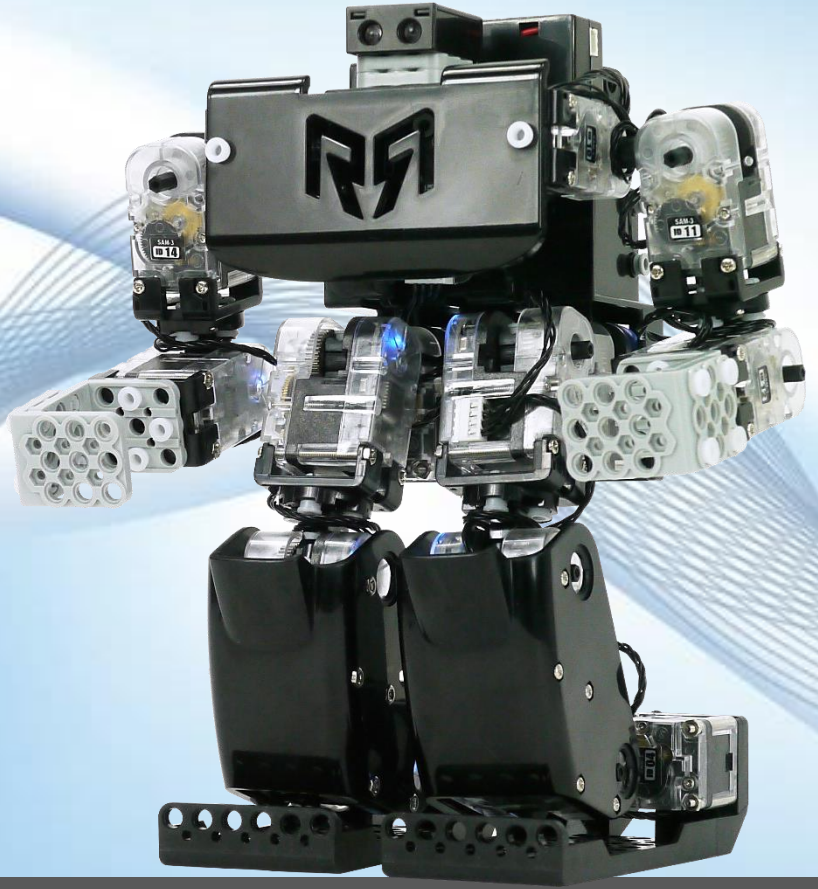




RQHUNO

U P G R A D E D

STEM EDUCATION



NEW RQ - HUNO

PROGRAMMABLE HUMANOID ROBOT KIT



New servo



New battery case



New remote



New frames

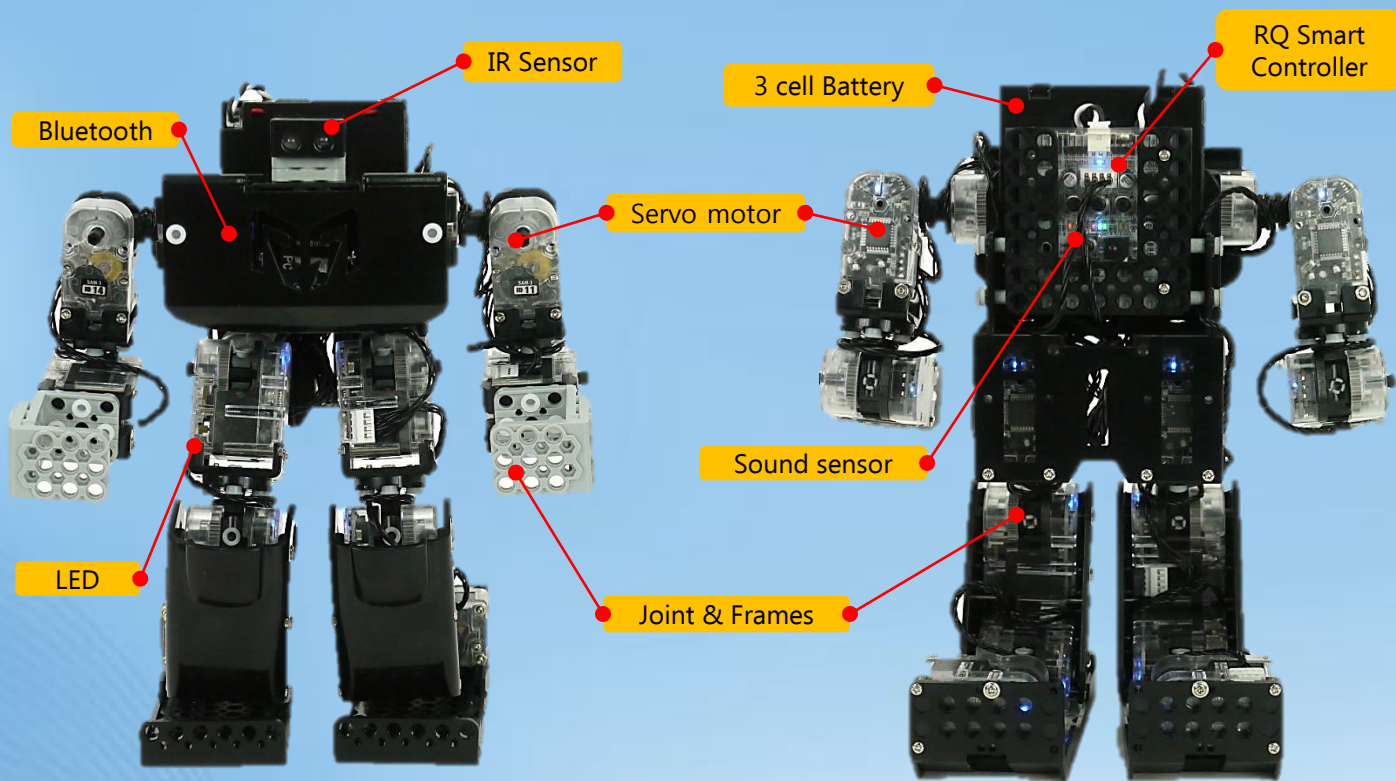


Scratch coding

- > PROGRAMMABLE BY SCRATCH
- > EASY ASSEMBLY GUIDE
- > CODING WORK BOOK
- > SENSORS: IR, SOUND
- > 16 DEGREE OF FREEDOM



ROBOBUILDER

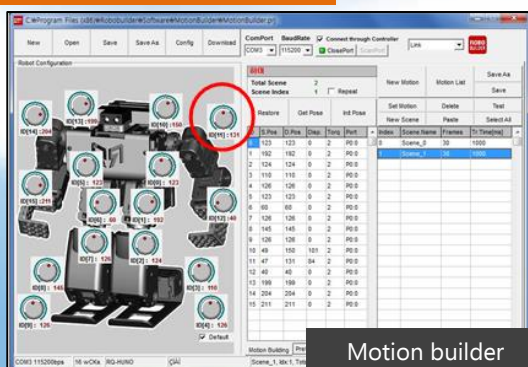


RQ-HUNO is small humanoid robot kit consisting of a smart controller, 16 servo motors and sensors. It is ideal for robot x coding education in schools, robotics centers and robot camps.

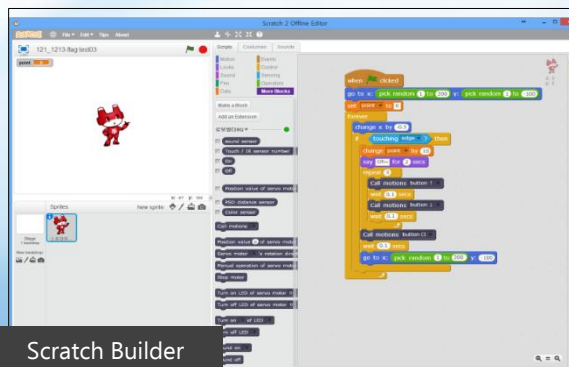
SPECIFICATION

Items	Details
Size / Weight	19cm / 620g
DOF (Degree of Freedom)	SAM-3 actuator: 16 pcs
IR sensor	Obstacle detection
Sound sensor	Sound detection
Sound output	9 melodies
Battery (11V Li-poly)	Operation: 50~60 min Approx.
Bluetooth	Inclusive

SOFTWARE

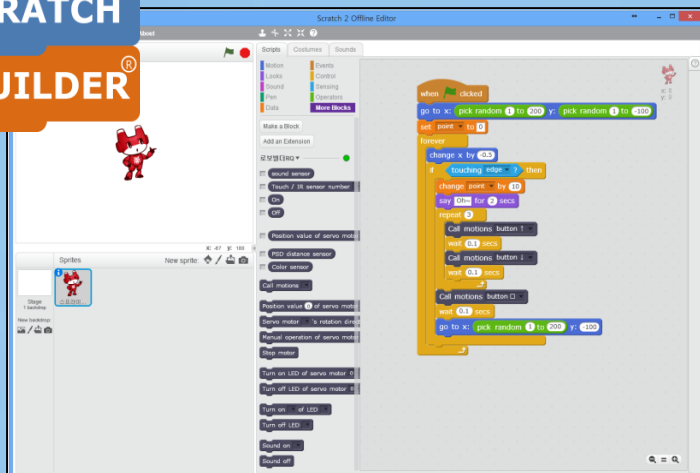


Motion builder



Scratch Builder

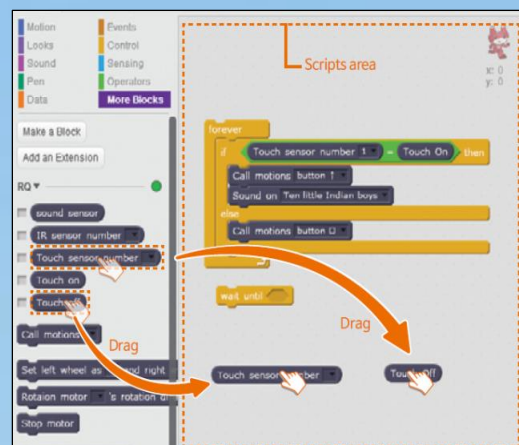
SCRATCH BUILDER®



Scratch is developed by the Lifelong Kindergarten Group at the MIT Media Lab. See <http://scratch.mit.edu>

SCRATCH BUILDER

Bridge software that connects Scratch and RQ robots



SCRATCH CODING BOOK FOR HUNO



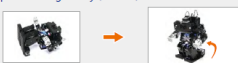
Programming RQ Robot by Scratch
04 RQ HUNO

Learning objective)

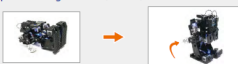
Code to make the humanoid stand up from its lying position.

1. Learn how to make RQ HUNO stand (A, B).

Standing up when facing the sky (Stand A)



Standing up when facing the floor (Stand B)



- Using Scratch's More blocks and Control, let's code to distinguish whether the robot is facing the sky or facing the floor.



2. Learn how to make RQ HUNO stand up when it hears a voice.



26) Learn how to make the robot stand up when it falls face down (Stand B).



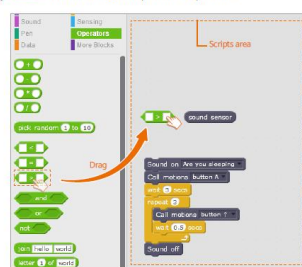
27) Change 'Call motions: button A' into 'Call motions: button B'.



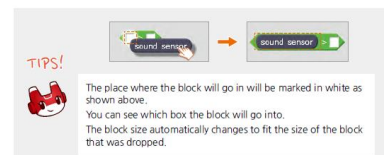
28) Put down RQ HUNO as shown in the picture and click the Scratch block. RQ HUNO stands up and takes 3 steps forward and the melody plays. Once the motion has been completed, the melody also stops.



5) Drag 'Sound sensor' with the mouse to drop on the scripts area.



6) Drag 'Sound sensor' with the mouse to insert into 'Sound sensor'.



"Computer science is about logic, problem solving, and creativity" [code.org]

Education Process

Repeat

A

Robot Principles

B

Robot Assembly

C

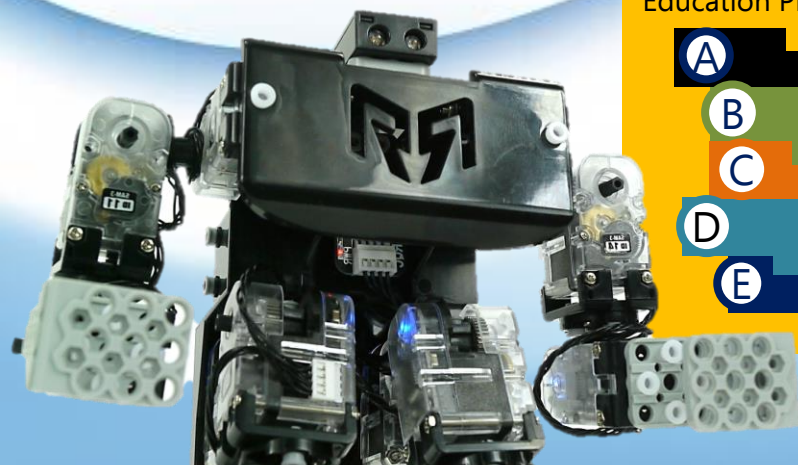
Control and Play Games

D

Coding with Scratch

E

Improve Logical Thinking & Creativity



HUNO PARTS



Smart controller X 1



SAM-3 X 16



Lithium polymer battery X 1



IR remote X 1



Knee frame X 2



Foot frame X 2



Chest frame X 1



Body frame X 1



IR sensor (+3 pin cable) X 1



Small case frame X 9



3X6 L-shaped frame X 6



3X3 frame X 1



Joint stick (A) X 2



Joint stick (B) X 4



Joint frame X 7



Download set X 1



W cable X 4



Rivet set X 1



Bolt set X 1



Zero adjustment set X 1



Rivet tool X 1



Screwdriver X 1



Charging board X 1



Lithium charger X 1

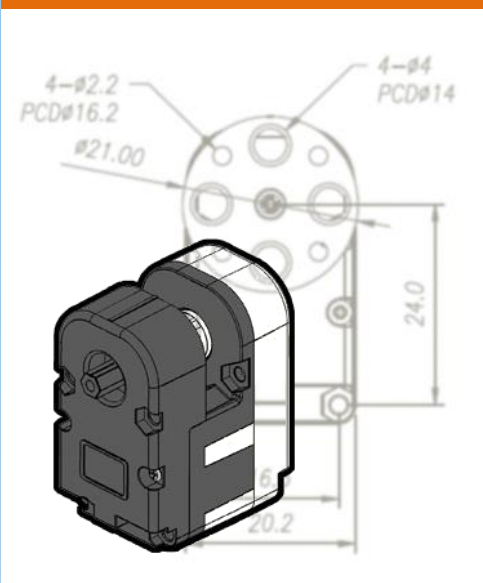


Bluetooth board X 1



Bluetooth chip X 1

SAM-3 SERVO MOTOR



Torque (Kgcm)	3
Rpm	80
Voltage	4~12
Interface	TTL UART
Gear Ratio	243
Position sensor	POT
Max. power	0.62
Weight(g)	22

