Makeblock Neuron Creative Lab 2.0

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Neuron Creative Lab Kit 2.0

Spark off invention with Neuron e-blocks

Makeblock Neuron Creative Lab kit includes most of the electronic building blocks on Makeblock Neuron platform. With more than 30 electronic building blocks, the Creative Lab Kit brings children even more possibilities in bringing their ideas to life, and gives educators a multitude of ways to integrate practical learning, programming, with their educational practices.

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Update List

Part Name & Picture		1.0	2.0
Power		× 2	× 2
Wi-Fi		× 1	**× 0**
Bluetooth		× 1	**× 2**
Wireless Transmitter		× 1	× 1
Wireless Transmitter		× 1	× 1
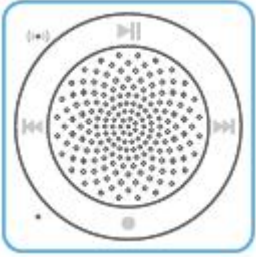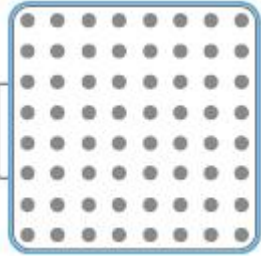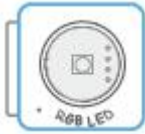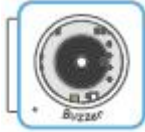
Part Name & Picture		1.0	2.0
Joystick		× 1	× 1
Button		× 1	**× 2**
Knob		× 1	**× 2**
Funny Touch		× 1	× 1
Camera		× 1	**× 0**
Light Sensor		× 1	× 1

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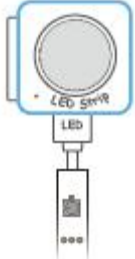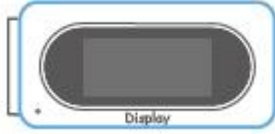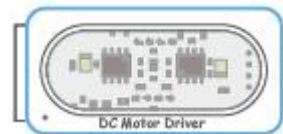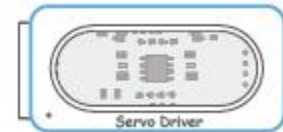
Update List

Part Name & Picture		1.0	2.0
Color Sensor		× 1	× 1
Gyro Sensor		× 1	× 1
Humiture Sensor		× 1	× 1
Sound Sensor		× 1	× 1
PIR Sensor		× 1	× 1
Ranging Sensor		× 0	× 1

Part Name & Picture		1.0	2.0
Temperature Sensor		× 1	× 1
Soil Moisture Sensor		× 1	× 1
Dual IR Detector		× 1	× 1
Ultrasonic Sensor		× 1	× 1

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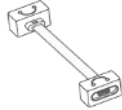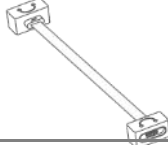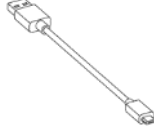
Update List

Part Name & Picture		1.0	2.0
Mic & Speaker		× 1	× 0
LED Panel		× 2	× 2
RGB light		× 1	× 1
Buzzer		× 1	× 1

Part Name & Picture		1.0	2.0
LED Strip Driver		× 2	× 2
Display		× 1	× 1
EL Wire Driver		× 1	× 0
Dual DC Motor Driver		× 1	× 2
Dual Servo Driver		× 1	× 2

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Update List

Part Name & Picture		1.0	2.0
Laser Pointer		× 1	× **0**
Water Pump		× 1	× 1
N20 DC Motor		× 2	× **0**
N30 DC Motor		× 0	× **4**
Neuron Board		× 9	× **12**
Servo Kit		× 2	× **4**

Part Name & Picture		1.0	2.0
Friction Pin Connector		× 36	× **72**
Magnet Wire (10cm)		× 3	× 3
Magnet Wire (20cm)		× 3	× 3
USB Cable (20cm)		× 2	× **0**
USB Cable (100cm)		× 1	× **2**
Rubber Band		× 80	× **0**
Gel Pad		× 6	× 6

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Creative Lab-key highlights
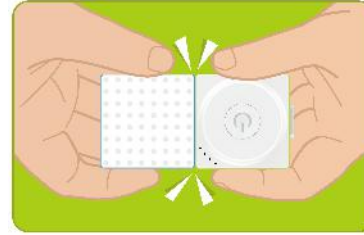

Includes 30 blocks that can be used to create more than 100 interactive preset effects so that you can easily build your own projects anywhere and any time.

Supports Makeblock Neuron app and mBlock, which are suitable for ages to explore the fun of programming and experience the multidisciplinary fascination.

The patented magnetic connector effectively prevents block from being misconnected,and makes each connection accurate and rapid.

Includes multiple adbanced blocks such as Wi-Fi, camera and mic&speaker,which supports IoT,AI,deep learning and more complex functions. Children can learn cutting-edge technology while playing.

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International Awards in Stack

Neuron wins 7 international arwards, inlcuding IDEA Gold 2017 (US), 2018 Gold Edison Awards, iF Design Award, CES Innovation Awards 2018(US), Red Dot Award: Product Design 2017(Germany), Good Design Award 2017 (Japan), K-DESIGN GOLD WINNER 2017(Korea).

IDEA Gold　　IF Design Award　　CES Innovation Awards 2018　　Reddot Design Award Winner　　Good Design　　K-DESIGN Gold 2017

Family

Entertain families and encourage them to create

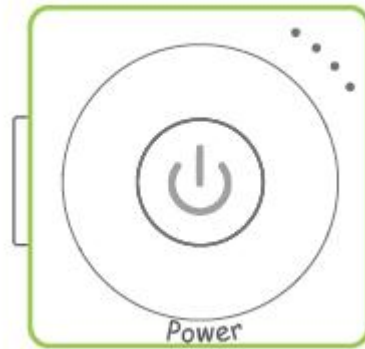**For children of ages 6+**

Family Fun

Educators

Teaching tools for schools and after-school clubs

Schools

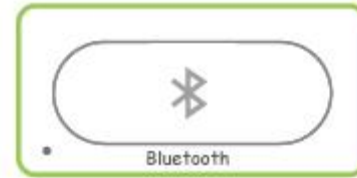**After-school clubs**

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Neuron Modules Power and communications
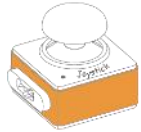

Power

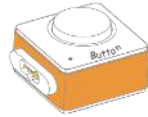Bluetooth

Wireless Receiver

Wireless Transmitter

Neuron Modules   Control
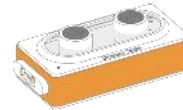
Joystick

Button

Knob

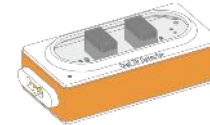Ranging Sensor

Light Sensor

Color sensor
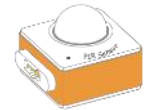
Gyroscope

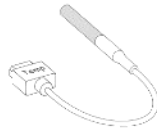Humiture Sensor

Sound Sensor

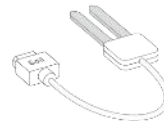Ultrasonic Sensor

Dual IR Detector

PIR Sensor

Temperature Sensor

Temperature Probe
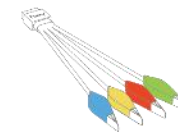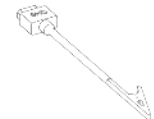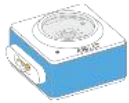
Soil Moisture Sensor

Soil Moisture Probe

Funny Touch

Funny Switch

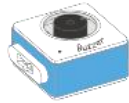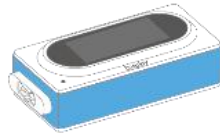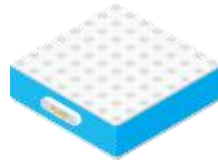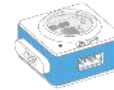GND Wire
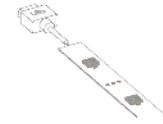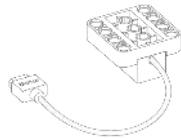
Neuron Modules Output & Wire

RGB light

Buzzer

Display

LED Panel

LED Strip Driver
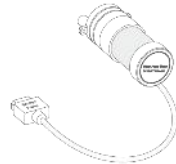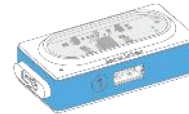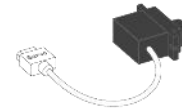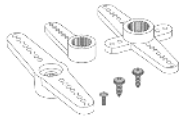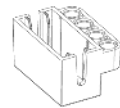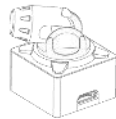
LED Strip

Dual DC Motor Driver
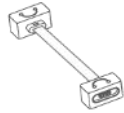
Mini Servo Kit

Water Pump
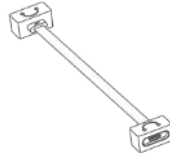
Dual Servo Driver

Mini Servo

Mini Servo Kit

Mini Servo Kit

Laser Pointer

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Neuron Modules Connect & Lock

Magnetic Connecting Wire （10cm)

Magnetic Connecting Wire （20cm)

USB Cable （100cm)

Neuron Board(compatible with LEGO)

Gel Pad

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Makeblock Neuron Creative Lab Specifications

Age	6+
Software	Neuron (iOS, Android tablet) mBlock (mac OS, Windows)
Block Category	➢ Energy + Communication: Power, Bluetooth, Wireless-T, Wireless-R ➢ Input: Dual IR Detector, Light Sensor, Color Sensor, Ultrasonic Sensor, Gyro Sensor, Temp Sensor, Sound Sensor, Humiture Sensor, PIR sensor, Soil Moisture, Ranging Sensor ➢ Output: DC Motor Driver, Servo Driver, RGB LED, LED Panel ,LED Strip, Display, Buzzer ➢ Control: Button, Knob, Joystick, Funny Touch ,Voice Recognition
Battery	3.7V 950mAh Lithium Battery Input: 5V/1A Max Output: 5V/2A Max
Wireless Communication	Bluetooth
Dimensions	➢ 24mm x 24mm x 14mm Max: Light Sensor, Color Sensor, Gyro Sensor, Temp Sensor, Sound Sensor, Humiture Sensor, PIR sensor, Button, Knob, Joystick, RGB LED, Soil Moisture, Ranging Sensor ➢ 24mm x 48mm x 14mm Max: Dual IR Detector, Bluetooth, Voice Sensor, Ultrasonic Sensor, Funny Touch, Display, DC Motor Driver,9g Servo Driver ,Wireless-T/R ➢ 48mm x 48mm x 14mm Max: Power, LED Panel