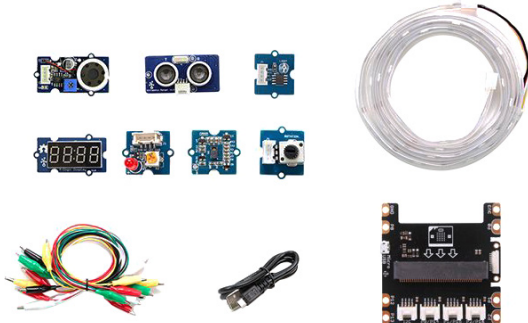# Grove Inventor Kit for micro:bit   multicomp^{PRO}

RoHS Compliant

Features

- Cool extension shield with rich and convenient peripherals;
- 8 well selected Grove modules for working with micro:bit;
- 12 awesome projects to let you get started quickly;
- Well documented instruction.

Description

The BBC micro:bit is a pocket-sized computer that can easily realize your creativity without much electrical and coding knowledge. There are numerous possibility of creation you can dig out by micro:bit, from robots to musical instruments. However if you want to create more things, just 1 micro:bit is barely not enough, That's why we introduce the Grove Inventor Kit for micro:bit to you.

The Grove Inventor Kit for Micro:bit brings endless possibilities to your micro:bit. The core board in this kit is the Grove shield for micro:bit v2.0, with which you can use plenty of Grove modules including sensors, display, actuator to interact with micro:bit. If you never used and have no idea what grove is, here is the introduction of Grove. All you need to know is that with Grove, there is no need of soldering or jump wires any more. Your prototyping will be easier and much more convenient.

We have already prepare 8 grove modules to let you get started with micro:bit. With these grove modules, you can measure distance and display it, use gesture to play different music, or make a smart guard for your desk or room. We have prepared all the necessary libraries(packages) for free download. If you are a beginner to micro:bit, don't worry because we have also prepare 12 different project which can teach you step by step. If you are an advanced user, this kit will help you more creative project than others.

Note: The output voltage of micro:bit is around 3.0V, use microbit or AA battery to power the circuit may cause malfunction of Grove modules which requires high input voltage and drive current(e.g Grove - Ultrasonic Ranger). In order to make these kind of Grove function well, please use the micro-USB port on Grove shield for microbit to power the circuit.

Projects

Control the Light
Sunshine micro:bit
LED Bar Controller
Music Player
Gesture Recognition
Smart Guard
Shake Counter
Ultrasonic Meter
Rainbow on The Desk
Guardians of The Secrets in Your Bag
Guardians of The Secrets in Your Room
Magic Musician

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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Grove Inventor Kit for micro:bit   multicomp PRO

Part List

Grove Shield for micro:bit v2	1
Grove - Rotary Angle Sensor(P)	1
Grove - Speaker	1
Grove - Ultrasonic Ranger	1
Grove - Light Sensor v1.2	1
Grove - WS2812 Waterproof LED Strip - 30 LEDs 1 meter	1
Grove - Gesture	1
Grove - 4-Digit Display	1
Grove - Red LED	1
Micro USB Cable - 48cm	1
12 Projects Manual	1
Alligator Cable	10
Grove Cable	7

Technical Details

Weight   : 329.5g
Battery   : Exclude

Note: The BBC micro:bit board is not included.

Part Number Table

Description	Part Number
Grove Inventor Kit for micro:bit	MP003284

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Element14.com/multicomp-pro

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