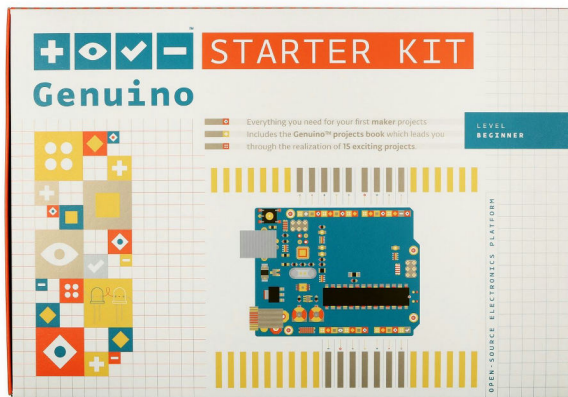# GENUINO STARTER KIT (GKX00007)

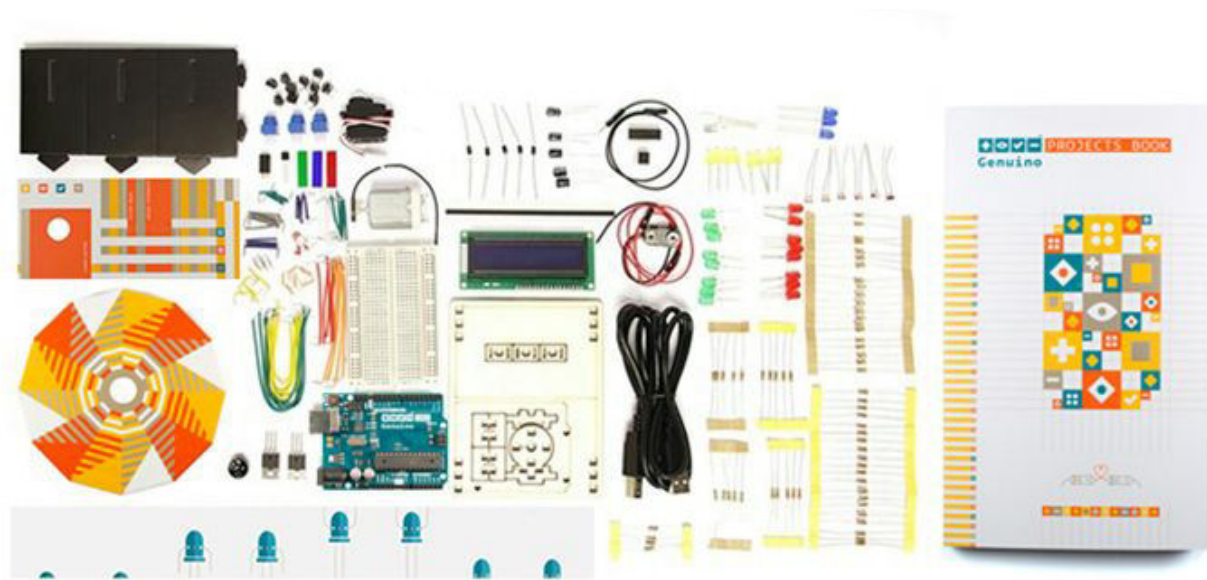*The ultimate solution for getting started with Genuino, and having fun with a series of interactive projects.*

Overview

Genuino Starter Kit is the ultimate educational solution for learning how to use the Genuino platform. It contains a Genuino Uno Rev3 board, a collection of sensors and actuators, and a book that guides the absolute beginners from their very first steps with electronics into the world of interactive and sensing objects. *The Genuino Starter Kit is a great gift for kids ages 9 to 99!*

Genuino Starter Kit contains a full color 170 pages book with the following projects:

01. GET TO KNOW YOUR TOOLS: an introduction to the basics
02. SPACESHIP INTERFACE: design the control panel for your starship
03. LOVE-O-METER: measure how hot-blooded you are
04. COLOR MIXING LAMP: produce any color with a lamp that uses light as an input
05. MOOD CUE: clue people into how you're doing
06. LIGHT THEREMIN: create a musical instrument you play by waving your hands
07. KEYBOARD INSTRUMENT: play music and make some noise with this keyboard
08. DIGITAL HOURGLASS: a light-up hourglass that can stop you from working too much
09. MOTORIZED PINWHEEL: a colored wheel that will make your head spin
10. ZOETROPE: create a mechanical animation you can play forward or reverse
11. CRYSTAL BALL: a mystical tour to answer all your tough questions
12. KNOCK LOCK: tap out the secret code to open the door
13. TOUCHY-FEEL LAMP: a lamp that responds to your touch
14. TWEAK THE GENUINO LOGO: control your personal computer from your Genuino
15. HACKING BUTTONS: create a master control for all your devices!

Genuino Starter Kit includes:

1 Projects Book (170 pages)	8 LEDs (yellow)
1 Genuino Uno Rev3	3 LEDs (blue)
1 USB cable	1 Small DC motor 6/9V
1 Breadboard 400 points	1 Small servo motor
70 Solid core jumper wires	1 Piezo capsule [PKM17EPP-4001-B0]
1 Easy-to-assemble wooden base	1 H-bridge motor driver [L293D]
1 9v battery snap	1 Optocouplers [4N35]
1 Stranded jumper wires (black)	2 Mosfet transistors [IRF520]
1 Stranded jumper wires (red)	5 Capacitors 100uF
6 Photoresistor [VT90N2 LDR]	5 Diodes [1N4007]
3 Potentiometer 10kOhms	3 Transparent gels (red, green, blue)
10 Pushbuttons	1 Male pins strip (40x1)
1 Temperature sensor [TMP36]	20 Resistors 220 ohm
1 Tilt sensor	5 Resistors 560 ohm
1 alphanumeric LCD (16x2 characters)	5 Resistors 1k ohm
1 LED (bright white)	5 Resistors 4.7k ohm
1 LED (RGB)	20 Resistors 10k ohm
8 LEDs (red)	5 Resistors 1M ohm
8 LEDs (green)	5 Resistors 10M ohm

Documentation

All the projects included in the Genuino Starter Kit can be built without soldering.
The complete selection of sketches that will guide you through the 15 projects included in your kit
are available in the Software (IDE). From your IDE, click on: File / Examples /
10.StarterKit_BasicKit.

Have a look at these video tutorials for a project-by-project walk-through.
Please note, projects are powered via USB by the connected computer during programming.
A 9V battery clip is provided so that you can power the projects independently.
A laser-cut wooden base allows you to keep the breadboard and Genuino Uno in place.
An assortment of cardboard printed pieces give projects a clean and finished look, guiding users
through the basics of making fully working devices.

For more information check out the Genuino Starter Kit Product Page.