Yellow D.I.Y. kit





Overview

A 610 page book with 80 D.I.Y exercises to take your electronics expertise from beginner to an advanced level. Welcome to the what's next textbook, thank you all for your support and belief in electronics!

For over a decade, we have produced quality hardware and educational materials to teach about them. Our mission has always been to introduce you to the next generation of tools that enable everyone to quickly translate ideas and concepts into the physical world. We believe artists and engineers can share knowledge to create interactive and exciting inventions! This is the idea of technology we want to spread, what will be your next step?

The kit includes

1 The yellow D.I.Y. book
1 YELLOW board
1 RED board
1 Ethernet shield
1 Optoelectronic components box*
1 Integrated circuits box*
1 Passives and semiconductors box*
1 Connectors and power box*
1 Car kit box*
1 Modules box*
1 Motors box*

^{*}details about the exact content of the box are on the next page

Optoelectronics components box

1x 7-segment display (Common Cathode)

1x 8x8 LED matrix display (Common Cathode)

3x TCRT5000 Reflective optical sensor

5x Green LED - 5mm

5x Yellow LED – 5mm

5x Red LED – 5mm

5x Blue LED – 5mm

5x White LED - 5mm

1x TSOP2238 IR receiver

1x TSAL5100 940nm IR LED

Integrated circuits box

1x ATMEGA328P microcontroller

1x 74HC595N shift register

1x 74LS164 shift register

1x LM358N operational amplifier

1x MAX7219 LED driver

1x TIP120 Darlington transistor

1x 10μF capacitor

1x Condenser microphone

Passives and semiconductors box

6x Piezoelectric sounder

1x Joystick

1x 16 MHz crystal resonator

1x 1N4007 diode

1x 1N4148 diode

1x Light Dependent Resistor (LDR)

1x Resistors set

2x 100nF capacitor

1x 10µF capacitor

2x 22pF capacitor

1x 6x6mm push button

6x 5,1V Zener Diode

2x 100nF capacitor

2x 10kΩ potentiometer

2x Plastic potentiometer shaft

Connectors and Power box

1x 8-battery (AA type) holder

1x 4-battery (AA type) holder

1x Wall AC adapter 5V/4A

1x USB to MIDI adapter

1x Breadboard and wires kit

1x USB A/B cable

1x 5-pin DIN socket

Car kit box

1x Wheels and rubber tyres set

1x Robot car Plexiglass frame set

1x Screws and nuts set

1x 16x2 character LCD

2x Geared motor

Modules box

1x DHT11 temperature/humidity sensor module

1x 4x4 alphanumeric keypad

1x 4-channel capacitive touch module

1x HC-05 or HC-06 Bluetooth module

1x I2C LCD controller

1x IR remote

1x L298N motor control module

1x RFID-RC522 module

2x Mifare Classic tag

1x PIR sensor module

1x SRF04 or SRF05 ultrasonic range finder

1x 16x2 character LCD

Motors box

2x Micro Servo

1x DC Motor

1x Red and Black Wires, Male-Male

1x plastic horn set