

C520D + U23B + U25B

Arduino Professional Set

**200-Page
Learning Manual**

*Project-based learning
with simple step-by-step
fully illustrated colour
manual.*

**Build 50+
Fun Projects**

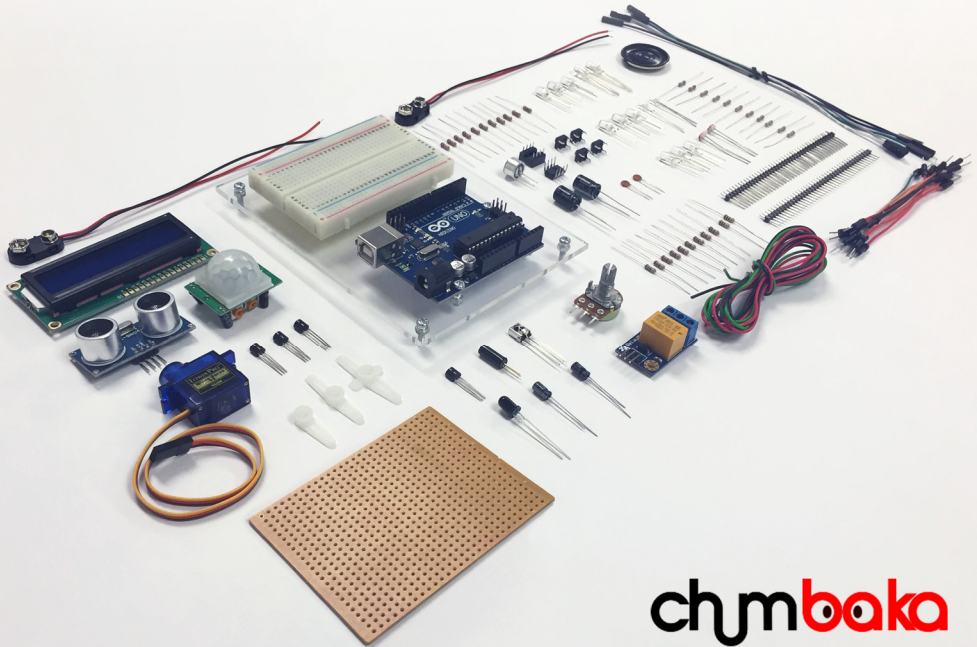
*Touch organ, soil sensor,
stroboscope, pedometer,
ultrasonic sonar, PIR
switch, IoT, and more.*

**100+ Components
and Modules**

*Ultrasonic transceiver,
PIR sensor, servo motor,
LCD, relay module, IR
transceiver, Wi-Fi
module, and more.*

**Complete
Lesson Plan**

*Hands-on experience in
embedded system,
programming,
electronic circuits, and
soldering.*



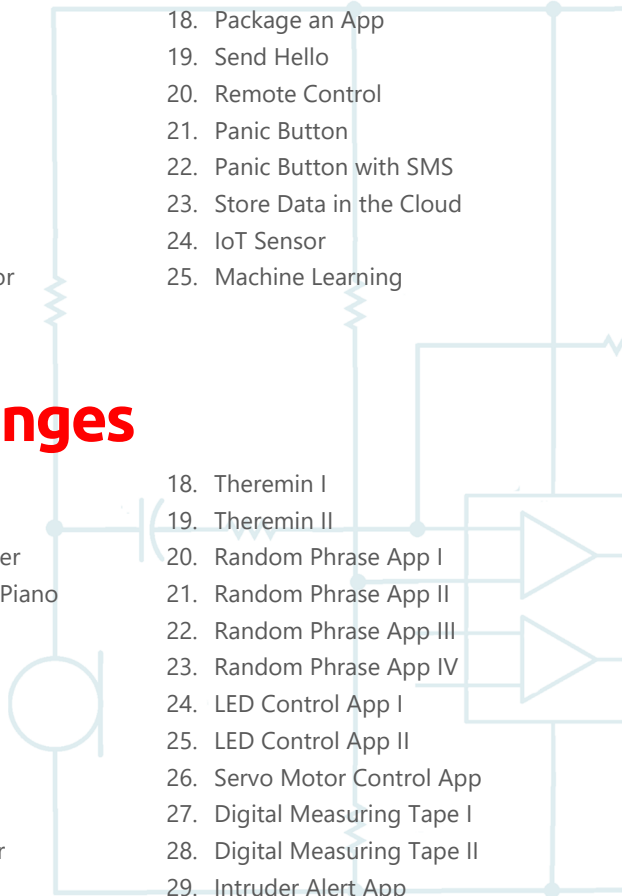
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List of Projects

1. Strobe Light
2. Running Light
3. Mood Lighting
4. Twinkle Twinkle LED
5. Touch Organ
6. Voltage and Resistance
7. Night Light
8. Schematic
9. Light Dimmer
10. Fading Light
11. Digital Thermometer
12. Random Colour Generator
13. Toggle Switch
14. Digital Ruler
15. Review
16. Set Up App Inventor
17. My First App
18. Package an App
19. Send Hello
20. Remote Control
21. Panic Button
22. Panic Button with SMS
23. Store Data in the Cloud
24. IoT Sensor
25. Machine Learning

List of Challenges

1. Touch Switch for LED
2. Touch Piano
3. Touch Piano with Amplifier
4. Performance with Touch Piano
5. Read Resistor Value
6. Flashing LED
7. Flashing LED with Pot
8. Tuner with Pot
9. DJ Board
10. Light Dimmer
11. Variable Speed DC Motor
12. Servo Motor Control
13. Rotating Figurine
14. Music Box
15. Courtesy Light
16. Fading Courtesy Light
17. Fading Courtesy Light with Toggle Switch
18. Theremin I
19. Theremin II
20. Random Phrase App I
21. Random Phrase App II
22. Random Phrase App III
23. Random Phrase App IV
24. LED Control App I
25. LED Control App II
26. Servo Motor Control App
27. Digital Measuring Tape I
28. Digital Measuring Tape II
29. Intruder Alert App
30. Control Arduino with Gestures
31. Control Arduino with IR
32. Control with Arduino with PIR



Content of Set

Manual

- Level Up! 1

Project Board

- Arduino compatible 1
- Breadboard 1
- Perspex 1
- USB cable 1
- Bolt and nut 8

Sensors

- Ultrasonic transceiver 1
- IR receiver 1
- IR phototransistor 1
- Tilt sensor 1
- Temperature sensor 1
- LDR 2
- PIR motion sensor 1

Actuators

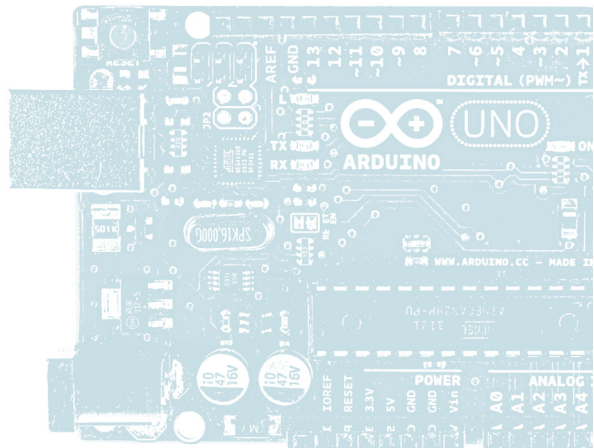
- Servo motor 1
- DC motor 1
- Speaker 1
- Push button 4
- Potentiometer 1
- Relay module 1

Components

- Tri-colour LED 2
- LED 9
- Laser LED 1
- IR LED 2
- Capacitor 4
- Resistor 27
- LCD 1
- Bluetooth module 1
- Transistor 1
- Diode 1

Others

- Battery adapter 1
- Jumper wire 23
- Crocodile cable 4
- Wire (meter) 3





STAY CURIOUS

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This product contains small parts
that may present a choking hazard
to children under the age of 3.



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