

C525B + U23B + U25B

# Arduino Professional Set

## 184 page Learning Manual

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

## Build 40+ Fun Projects

*Touch organ, soil sensor, stroboscope, digital ruler, accelerometer control, panic button with SMS, IoT, and more.*

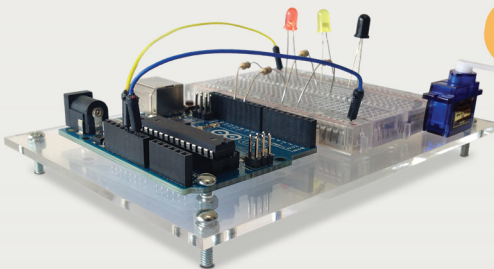
## 100+ Components and Modules

*Ultrasonic transceiver, PIR sensor, servo motor, IR phototransistor, relay module, Bluetooth module, and more.*

## Complete Lesson Plan

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

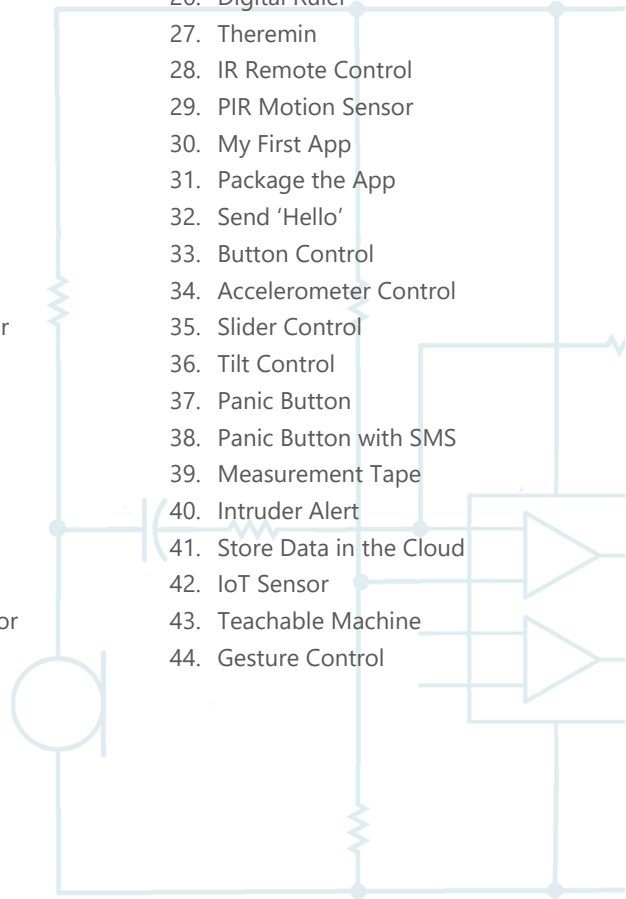
```
when Slider2 .PositionChanged  
  thumbPosition  
do  
  set TextToSpeech1 .SpeechRate to get thumbPosition  
  call TextToSpeech1 .Speak  
    message TextBox1 .Text
```



chymbaka

# List of Projects

1. LED and Motor
2. Conductivity
3. Voltage and Resistance
4. Blinking Light
5. Running Light
6. Extended Running Light
7. Servo Motor
8. Music Player
9. Touch Organ I
10. Touch Organ II
11. Touch Organ III
12. Potentiometer
13. Light-Dependent Resistor
14. Night Light
15. Conductivity Tester
16. Digital Thermometer
17. Stroboscope
18. Tuner
19. Standalone Circuit
20. Schematic
21. Random Colour Generator
22. Fading Light
23. Light Dimmer
24. Motor
25. Toggle Switch
26. Digital Ruler
27. Theremin
28. IR Remote Control
29. PIR Motion Sensor
30. My First App
31. Package the App
32. Send 'Hello'
33. Button Control
34. Accelerometer Control
35. Slider Control
36. Tilt Control
37. Panic Button
38. Panic Button with SMS
39. Measurement Tape
40. Intruder Alert
41. Store Data in the Cloud
42. IoT Sensor
43. Teachable Machine
44. Gesture Control



# Content of Set

## Manual

- Project Handbook 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

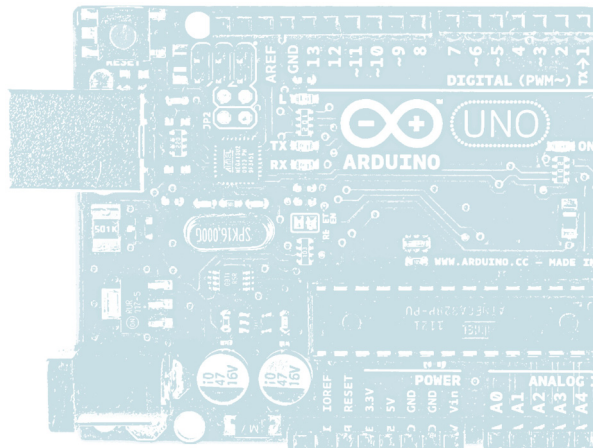
- Servo motor 1
- DC motor 1
- Speaker 1
- Push button 4
- Potentiometer 1
- Relay module 1

## Components

- Tri-colour LED 2
- LED 9
- Laser LED 1
- IR LED 2
- Capacitor 4
- Resistor 29
- Bluetooth module 1
- Transistor 1
- Diode 1

## Others

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





STAY CURIOUS

**PENANG**

303-4-8, Block B  
Krystal Point  
Jalan Sultan Azlan Shah  
11900 Bayan Lepas, Penang  
Tel: +6012 435 9910

**JOHOR BAHRU**

Suite 3.3 Menara Pelangi  
No. 2, Jalan Kuning  
80400 Johor Bahru, Johor  
Tel: +012 766 5292

**CYBERJAYA**

Digital Maker Hub, Level 8  
North Wing Main IT Building  
Tech Mahindra Campus  
Persiaran Apec  
63000 Cyberjaya, Selangor  
Tel: +6014 352 9983

**KUCHING**

S P A C E  
Sublot 12-13, New Lot 11136-11137  
City Square Phase 2  
Jalan Pending, Pending Heights I  
93450 Kuching, Sarawak  
Tel: +016 808 5820

**MIRI**

2<sup>nd</sup> Floor  
Lot 1879 Marina Square 2  
98000 Miri, Sarawak  
Tel: +013 839 9857

**KOTA KINABALU**

Jalan Tuaran  
88450 Kota Kinabalu, Sabah  
Tel: +012 868 0111

**SINGAPORE**

c/o Dream Catcher Technologies Pte Ltd  
Block 11 Kallang Place #07-05  
Singapore 339155  
Tel: +65 6298 1892



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



<http://chumbaka.asia>  
email: [enquiry@chumbaka.asia](mailto:enquiry@chumbaka.asia)