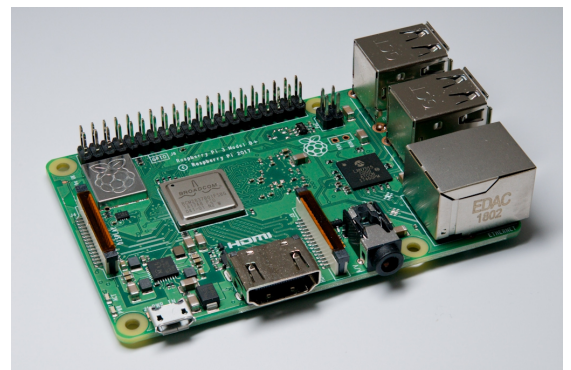


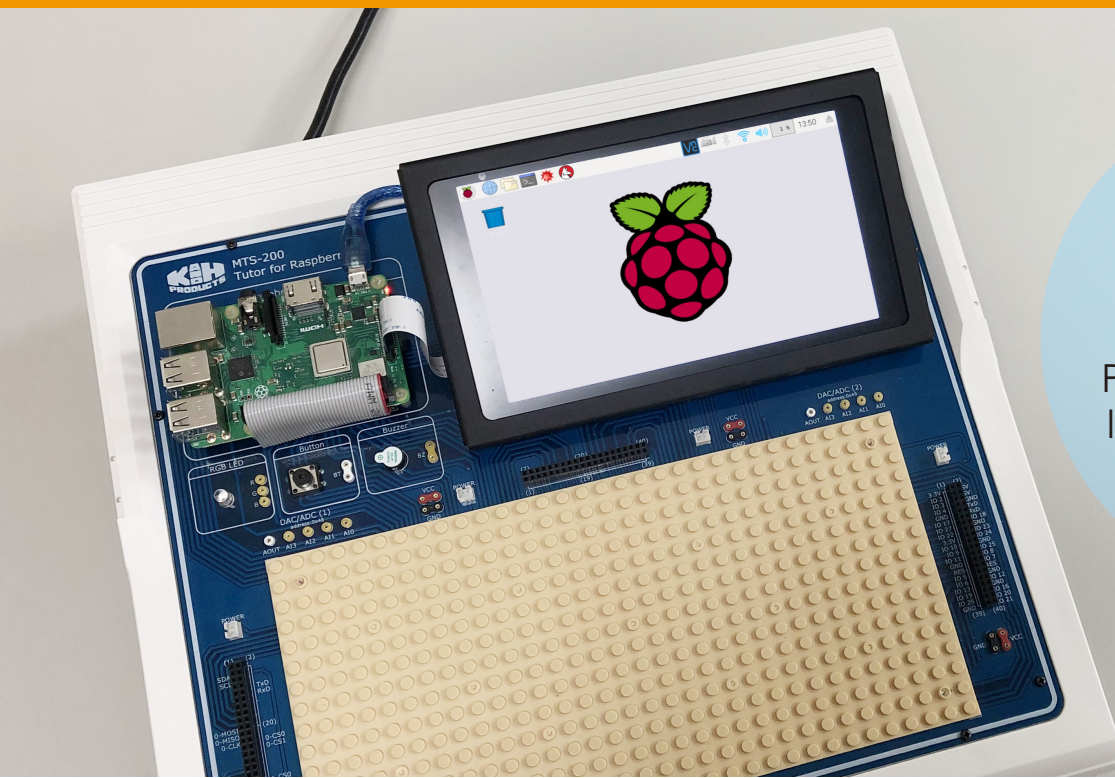
MTS-200 Tutor for Raspberry Pi



The Raspberry Pi is a mini computer that allows people of all ages to explore the world of computers and to learn how to code in programming languages, such as Scratch or Python. Just like a desktop PC, this credit card sized computer is capable of browsing the internet, playing videos, making spreadsheets, processing word document, and playing games.



MTS-200 provides an environment for Raspberry Pi to interact with the outside world using 16 different forms of faya-nugget electronic blocks. Students can efficiently learn and create various digital maker projects through simple connections and simple Python codes in the tutorials provided.

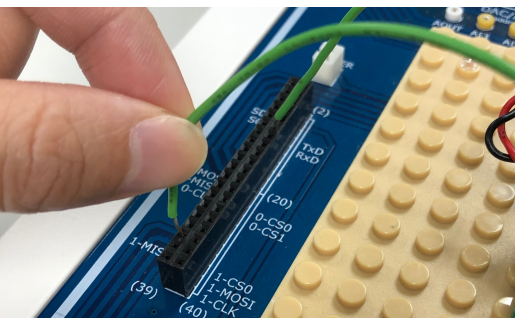
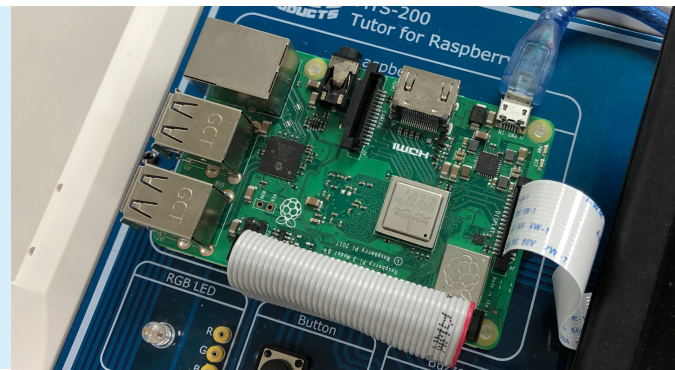


python

The experiment manual is based on Python programming language, with step-by-step experiment procedures.

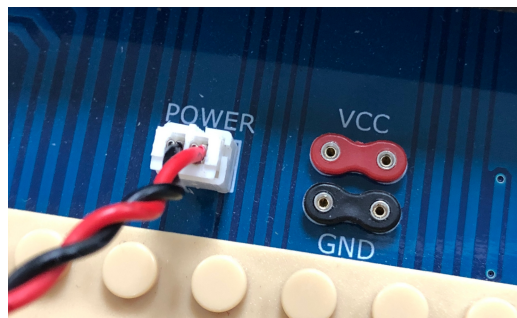
Control Board:Raspberry Pi

Based on Raspberry Pi, users can learn the control of various kinds of I/O peripherals.



I/O Socket

3 sets of extendable I/O ports are located around the working area for easy signal connection.



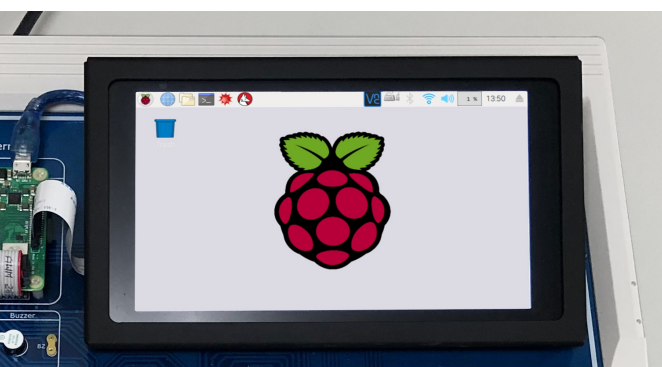
Power Jack

With an independent power supply, users can freely increase/decrease peripheral modules.



DAC/ADC

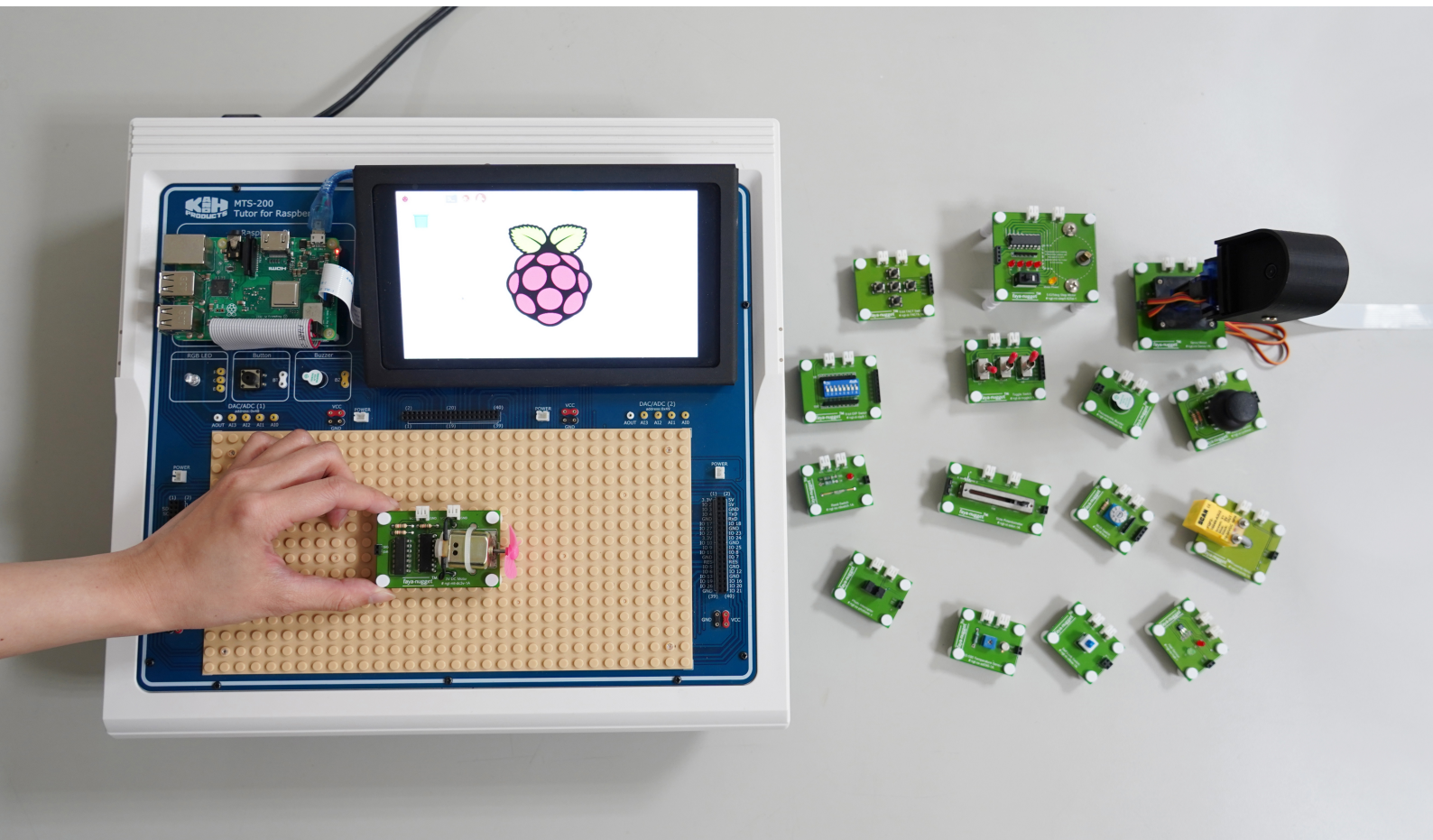
2 additional independent DAC/ADCs are included for users to design more experimental circuits.



Touch Screen

A touch screen is built in for direct controlling and monitoring.

High degree of freedom and expandability



- With high degree of freedom and scalability, the system can be integrated with faya electronic block modules and modular electronic building blocks.
- All blocks contain 2 wafer sockets for power connections, a DuPont pin-holder for signal connections, and 4 corner holes for perfect mounting the blocks on the brick plate.

List of Experiment

- Digital Input
 - BCD Switch
 - 8-bit DIP Switch
 - Self-Lock Switch
 - 5-bit TACT Switch
 - Toggle Switch
- Analog Input
 - Joystick Switch
 - Slide Potentiometer
- Environment Detection
 - AD-590 Temperature Sensor
 - Hall Sensor
 - Photo Interrupter
 - Proximity Sensor
 - Reed Switch
- Output Module
 - Piezoelectric Buzzer
 - Step Motor
 - DC Motor
 - 2-axis Servo