

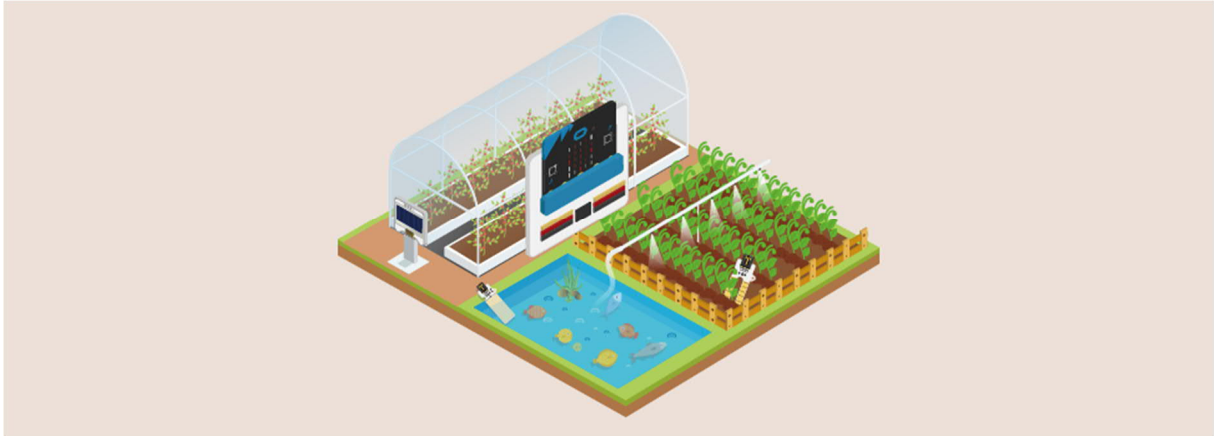
MBIT114

MICRO:BIT KIT SMART AGRICULTURE (COMPATIBLE AVEC MICRO BIT V1 ET V2)

MICRO:BIT KIT SMART AGRICULTURE (COMPATIBLE AVEC MICRO BIT V1 ET V2)



micro:bit Smart Agriculture Kit (Without micro:bit board)

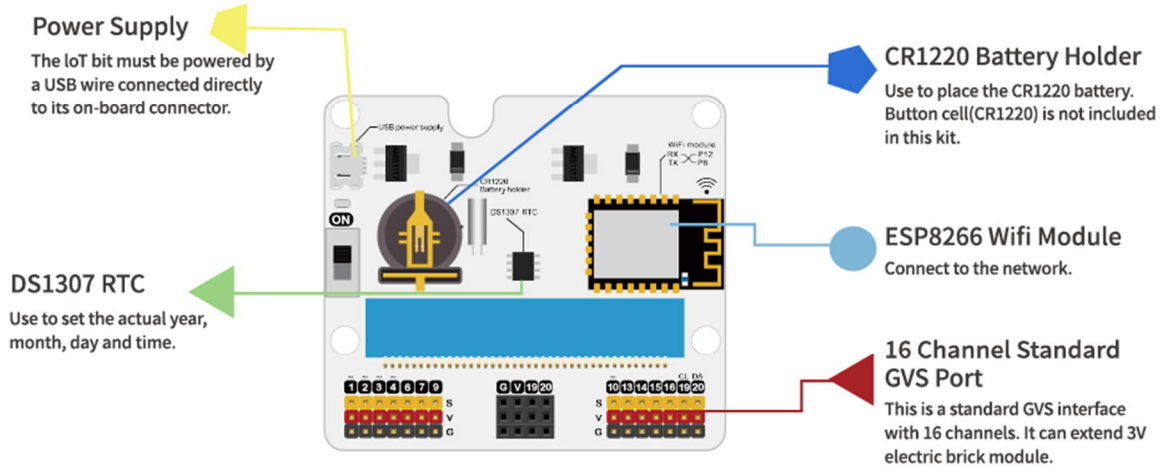


Description

The micro:bit Smart Agriculture Kit has a well-selection of IoT:bit, DS18B20 temperature sensor, soil moisture sensor, water level sensor, PIR sensor, servos and etc., we could use it to build such themes as the smart insects repelling machine, the ecological greenhouse, the fish pond water level monitoring device and more, from which we can learn the modern agriculture and program and explore more possibilities to apply the information technology in agriculture.

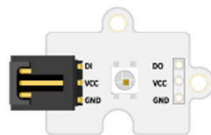
What's Included ?

- 1 x IoT:bit Internet WIFI extension board for micro:bit
- 1 x Rainbow LED
- 1 x PIR sensor
- 1 x DS18B20 sensor
- 1 x DHT11 sensor
- 1 x Sonar:bit
- 1 x Soil moisture sensor
- 1 x Water level sensor
- 1 x OLED screen
- 1 x EF92A 180° servo
- 1 x micro USB cable
- Jumper wires



Rainbow LED

It is operated under a low voltage with high luminance and large angle scattering.



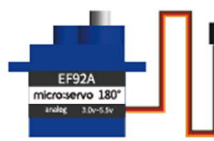
PIR sensor

PIR sensor is to detect the human body infrared.



OLED Screen

OLED is a display device with self-illumination, wide field of view and high contrast.



180° servo

Servo is an execute element.

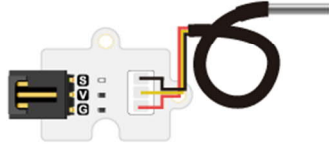


Water level sensor

Put the below line end in water for water level detection.

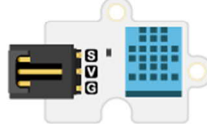
DS18B20 Sensor

This sensor is a temperature detector used to test the liquid temperature based on 18B20.



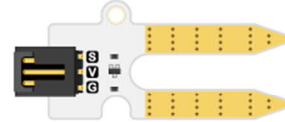
DHT11 Sensor

DHT11 sensor is sensitive to changes in ambient temperature and moisture, and can be used for temperature alarms, moisture testing and other tasks.



Sonar:bit

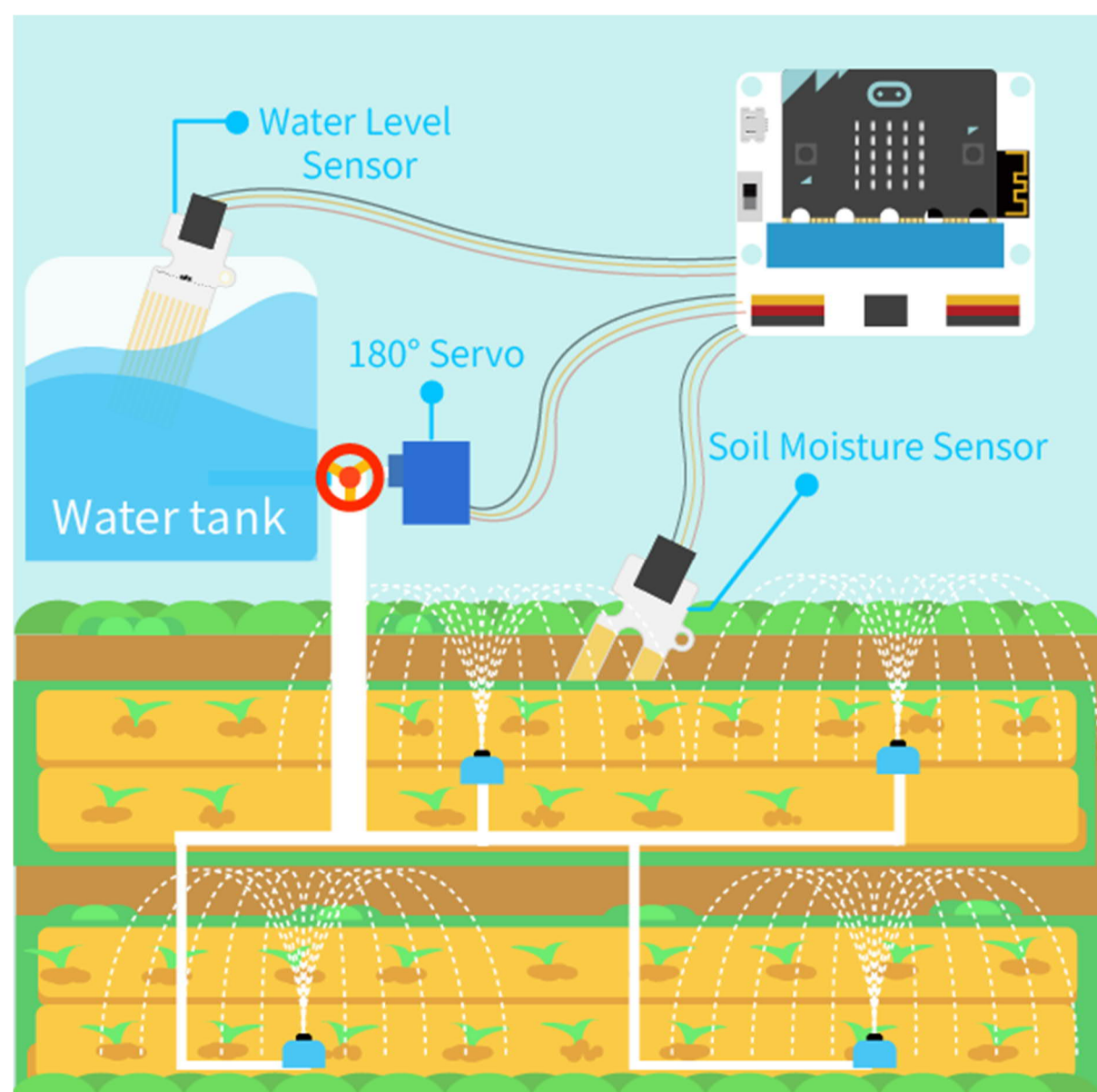
Ultrasonic can return the detected distance in cm and mm.

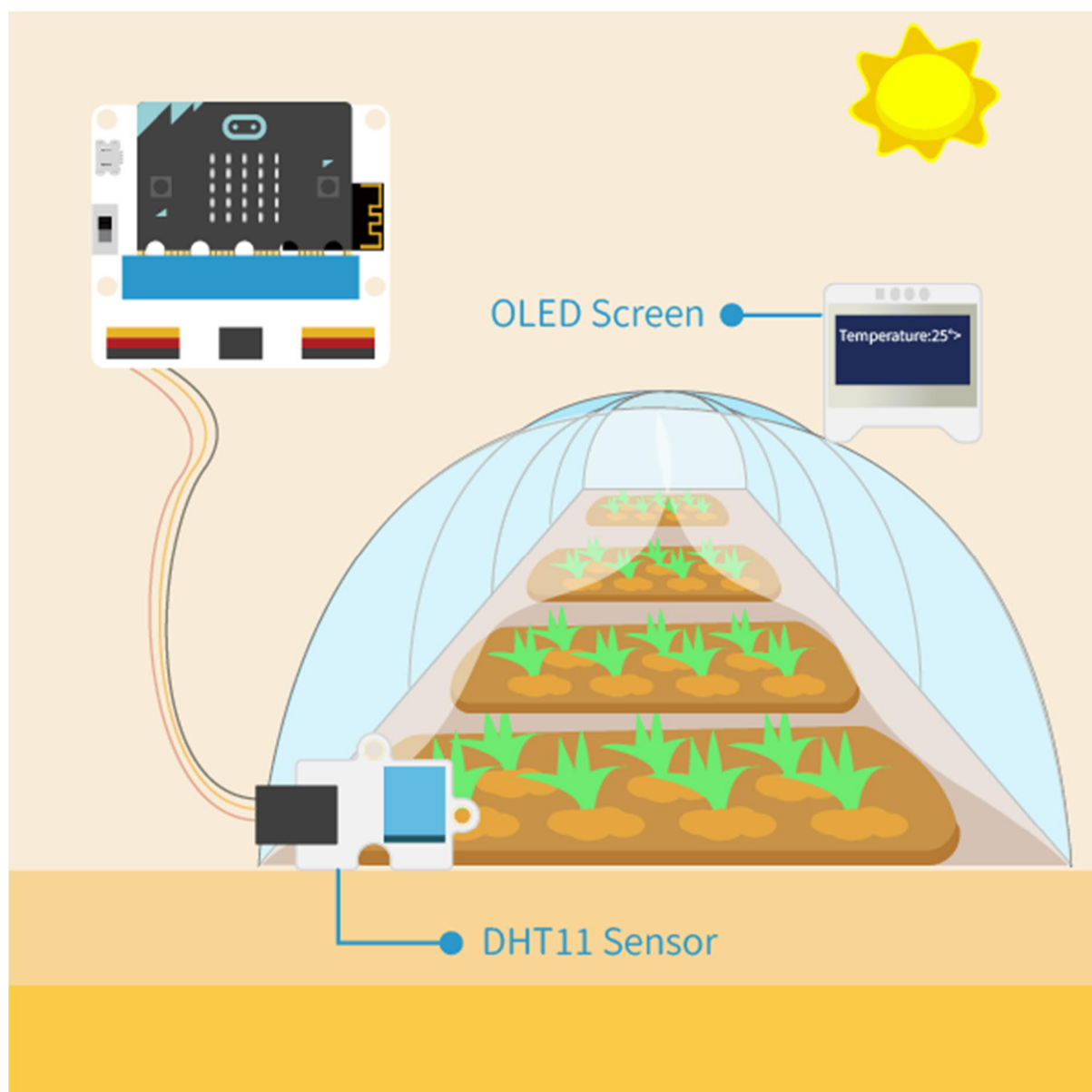


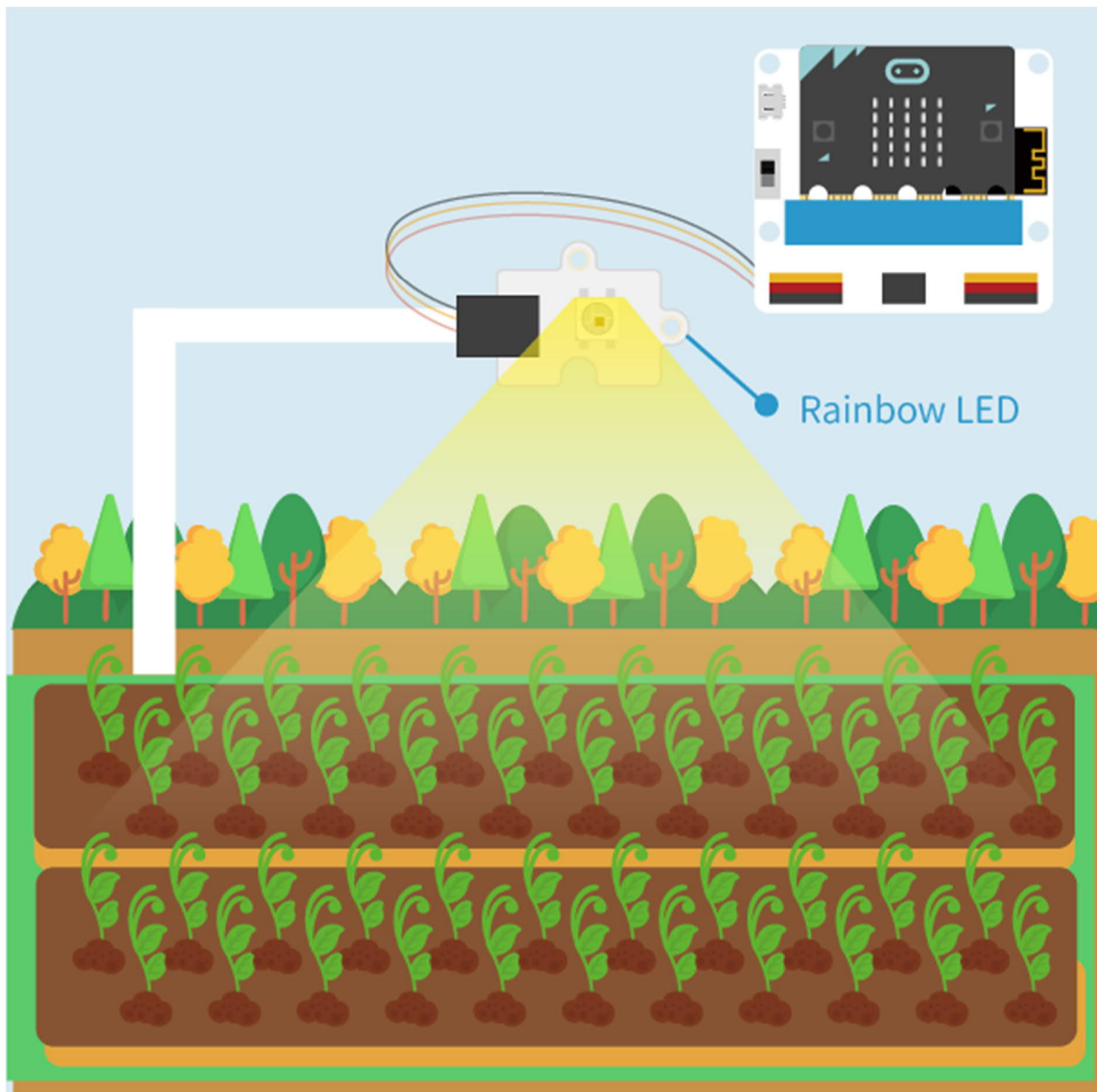
Soil moisture sensor

Soil moisture sensor is a kind of simulation input element. Its resistance between 2 electrodes is soil moisture value.

Applications







Projects you can make

Case 01: Auto Irrigation in Farmlands

Case 02: Temp.&Humidity Monitoring in the Greenhouse

Case 03: Artificial Light for Agriculture

Case 04: Farmlands Protection Device

Case 05: Water Temperature Detection

More interesting cases are constantly updated...