

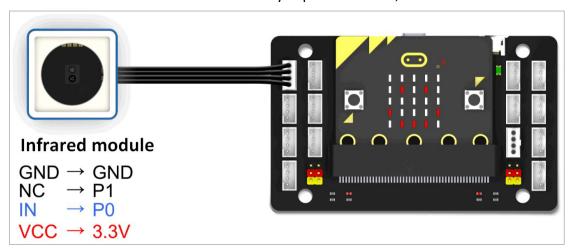
Infrared warning device

1.Learning target

In this course, we will earn how to use Micro:bit, infrared module and buzzer module to make a infrared warning device.

2. Preparation

Connect the module to Micro:bit board by expansion board, as shown below.



3. Programming method

Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: http://microbit.org/ to enter the programming interface. Add the Yahboom package https://github.com/YahboomTechnology/Module-World to program.

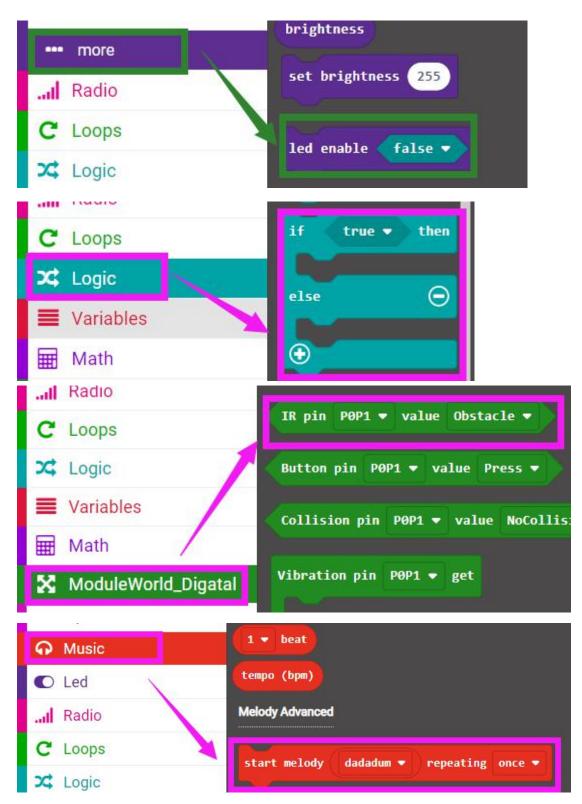
Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click \(\) New Project \(\) , add Yahboom package:

https://github.com/YahboomTechnology/Module-World , you can start programming.

4.Looking for blocks

The following is the location of the building blocks required for this programming.





5.Combine block

The summary program is shown below.



```
forever

if IR pin P2P3 ▼ value Obstacle ▼ then

start melody dadadum ▼ repeating once ▼

⊕
```

5. Phenomenon

After the program is downloaded successfully. When the infrared sensor detects an obstacle, the buzzer will sound.