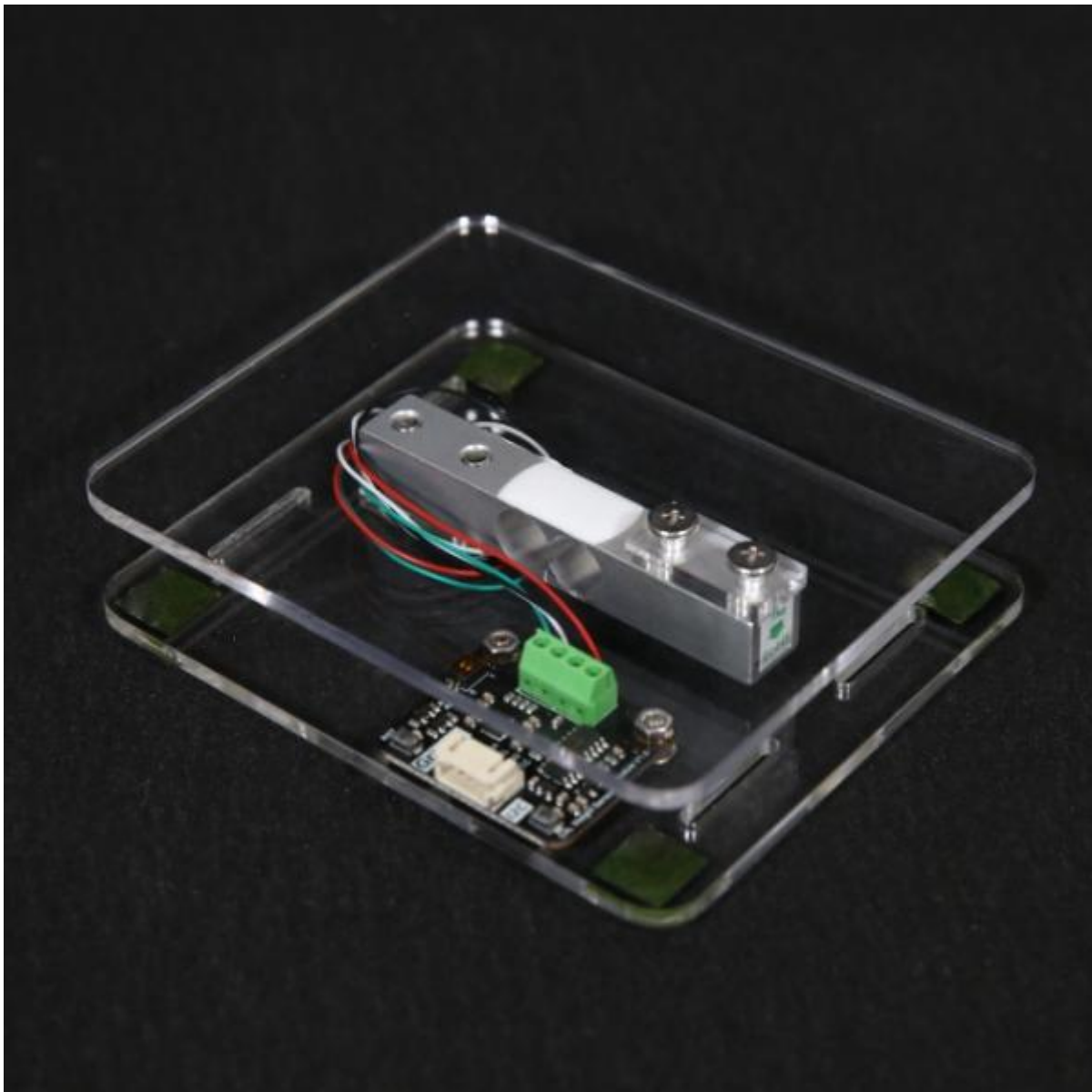


# DFRobot Sensor Testing: HX711 Weight Sensor, Voice Recorder Module Pro, Speech Synthesis Module V2

We tested a few DFRobot sensors by following their tutorials. Before you jump into using these sensors, we have some tips for you.

## HX711 Weight Sensor

This sensor can measure weight up to 1kg, and is compatible with Arduino, micro:bit, ESP32 and Raspberry Pi via I2C communication.

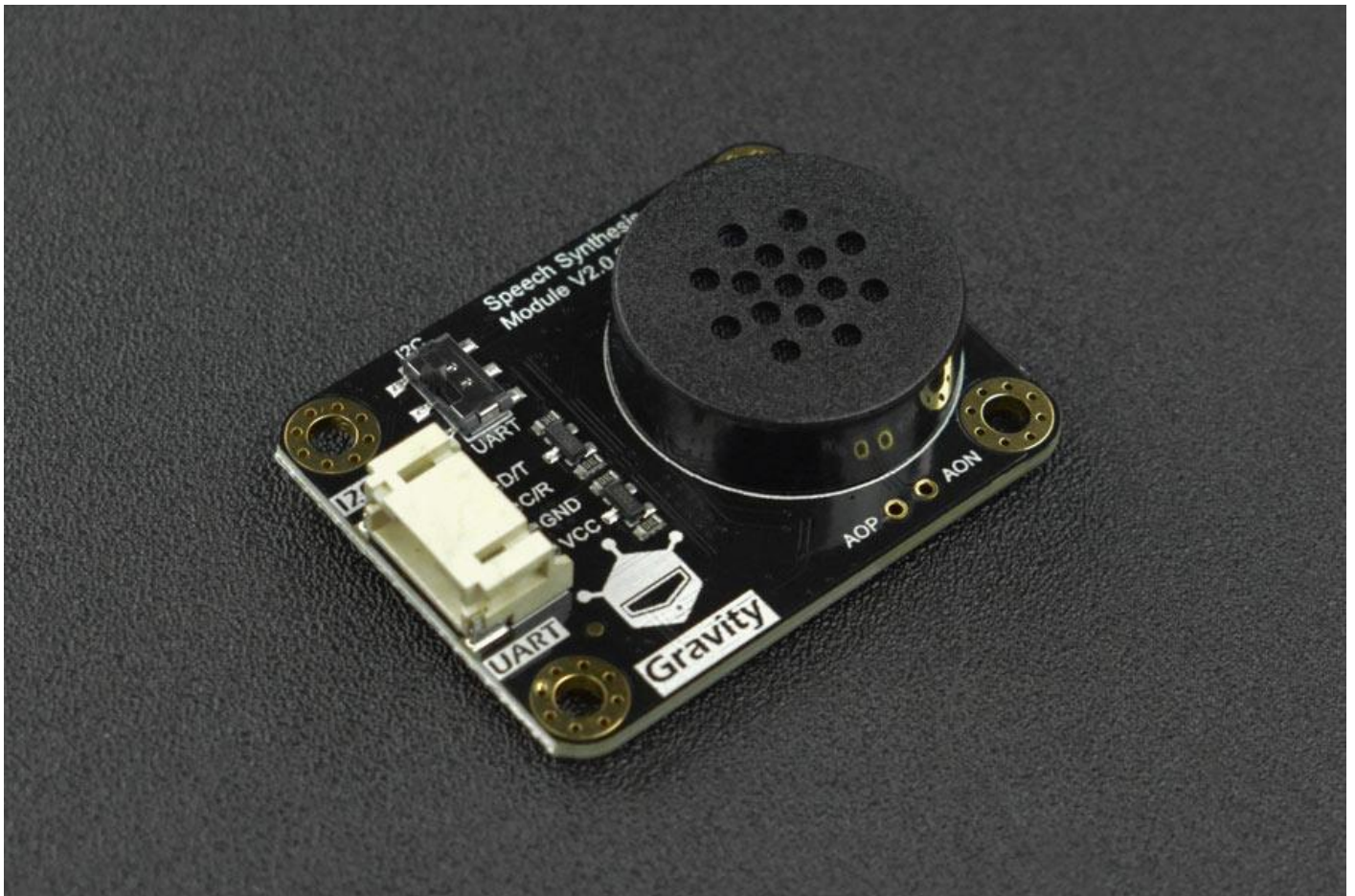


You will need to install the library `DFRobot_HX711_I2C` library which is available in Arduino library manager. However, the Arduino source file `DFRobot_HX711_I2C.h` will prompt an error in the console. To fix it, you simply need to remove this part `sensor IIC address*/` from this line `#define HX711_I2C_ADDR (0x64) sensor IIC address*/`.

Please see [here](#) for their official tutorial.

## Speech Synthesis Module V2

This module can turn text into speech. It supports both English and Mandarin languages and uses I2C or UART for communication.



If you are using the **V2** version, make sure you download and install the `DFRobot_SpeechSynthesis_V2` library which is only available via manual install. There is a [tutorial](#) for installing libraries on Arduino.

In the V2 library, you can only use the Female voice, but you can change the pitch by setting the tone from 0-9 (0 is the deepest).

Please see [here](#) for their official tutorial.

# Voice Recorder Module Pro

This module has an integrated recording and playback function and supports I2C communication. It can store 10 segments of 100s audio.



It also has a simplified speech synthesis function, for numbers 0 to 9 only. The built-in LED is very helpful when using the module.

1. **Off**: No recording at the current number
2. **Yellow**: There is a recording at the current number
3. **Red**: Is recording
4. **Green**: Is playing
5. **Flashing in red**: Is deleting

Please see [here](#) for their official tutorial.

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