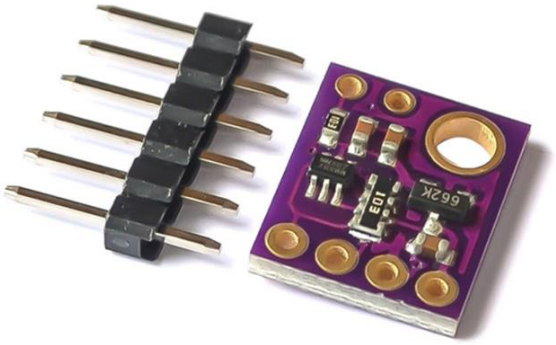
Visible Light Infrared I2C Sensor Module

Model: GY-1145



Description:

The SI1145 is a new sensor with a calibrated UV sensing element that can calculate UV Index. It's a digital sensor that works over I2C so just about any microcontroller can use it. The sensor also has visible and IR sensing elements so you can measure just about any kind of light - but only the UV sensor has a calibrated output so if you need precision Lux measurement check out the TSL2561. If you're feeling really advanced, you can connect up an IR LED to the LED pin and use the basic proximity sensor capability as well.

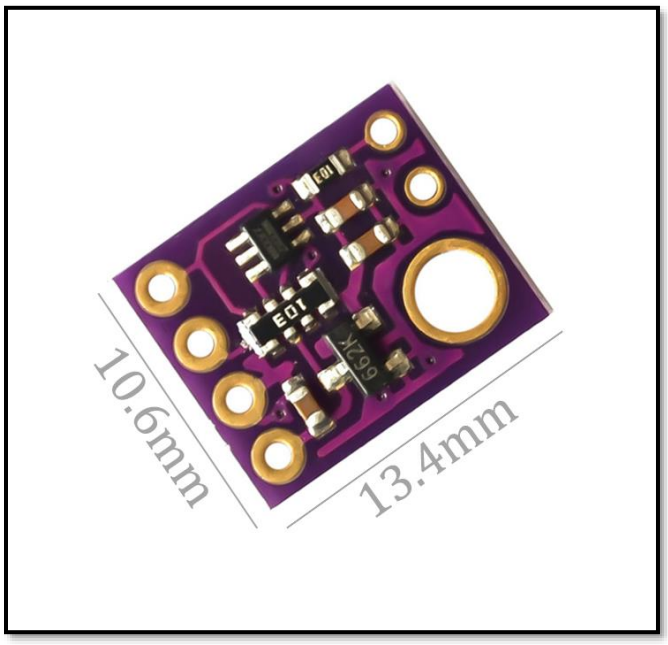
Specifications:

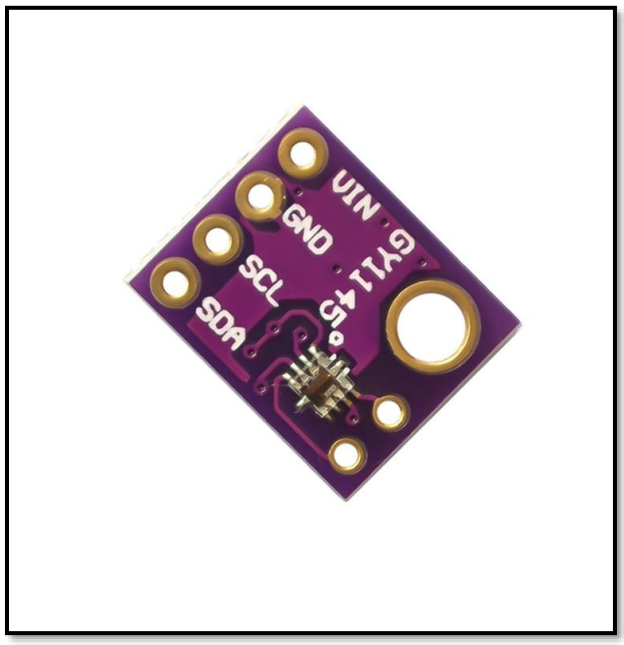
1. IR Sensor Spectrum: Wavelength: 550nm-1000nm (centered on 800)
2. Visible Light Sensor Spectrum: Wavelength: 400nm-800nm (centered on 530)
3. Voltage Supply: Power with DC 3-5V
4. Output Type: I2C address 0x60 (7-bit)
5. Operating Temperature: -40°C ~ 85°C
6. Board size: 13.4x10.6mm

Pinouts:

- Vin - this is the input to the voltage regulator. Power with 3-5VDC. Has reverse-polarity protection.
- GND - this is the signal and power ground pin, connect to your microcontroller ground pin.
- 3vo - this is the output from the onboard regulator. If you need a clean 3.3VDC, you can draw up to 100mA from this pin.
- SCL - this is the i2c clock pin, connect to your microcontroller I2C clock master pin.
- SDA - this is the i2c data pin, connect to your microcontroller I2C data master pin.

More Detailed Photos:





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