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DESCRIPTION CUSTOMER REVIEWS (11) SPECIFICATIONS

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UV Detection Sensor Module VEML6075 VEML6070 UVA UVB S12SD GY-8511 ML8511 Ultraviolet Ray Module Light Sensor For Arduino

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Color: UV Detection Sensor

CJMCU-6070/VEML6070 CJMCU-6075/VEML6075

GUVA-S12SD

GY-8511

Quantity: 1 9888 Pieces available

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- p - Universal PCB
- w - Adapter Plate
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- t - Copper Clad Laminate
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- g - GigaDevice
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- s - ST M 8 32

DESCRIPTION**CUSTOMER REVIEWS (11)****SPECIFICATIONS****Introduction:**

If you need other products, please leave a message to tell us.

The VEML6075 is an advanced CMOS ultraviolet (UV) light sensor that detects UVA in the UVA band. By integrating signal conditioning ICs, photodiodes, amplifiers, and analog/digital circuits in a small package size provides excellent measurement capabilities for handheld devices, devices, and health monitoring and fitness devices. Ideal choice. High dynamic detection accuracy. The contains an 8-bit command register that can be written via the I²C bus. All operations are controlled through the command register, and its simple command structure allows engineers to easily program operational set latch optical data from the sensor. With 16-bit resolution, the sensor converts photovoltaic UV sensitivity digital data with excellent temperature compensation.

Parameter:

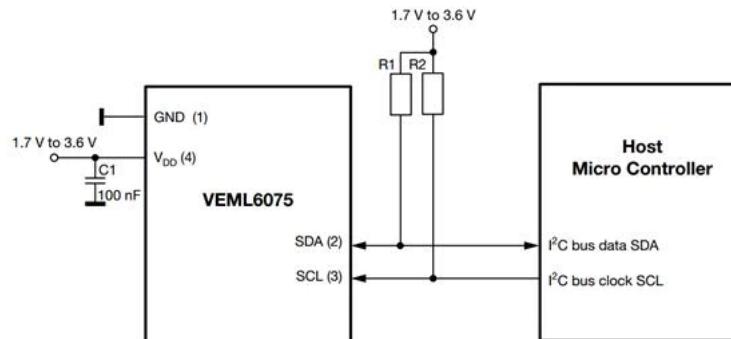
| BASIC CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified) | | | | | | |
|--|---|----------------------|------|------|------|-----------------------------------|
| PARAMETER | TEST CONDITION | SYMBOL | MIN. | TYP. | MAX. | UNIT |
| Supply operation voltage | | V_{DD} | 1.7 | - | 3.6 | V |
| Supply current | $V_{DD} = 1.8 \text{ V}$ | I_{DD} | - | 480 | - | μA |
| I ² C signal input | Logic high | V_{IH} | 1.5 | - | - | V |
| | Logic low | V_{IL} | - | - | 0.8 | |
| I ² C signal input | Logic high | V_{IH} | 1.4 | - | - | V |
| | Logic low | V_{IL} | - | - | 0.6 | |
| Operating temperature | | T_{amb} | -40 | - | +85 | $^{\circ}\text{C}$ |
| Shutdown current | Light condition = dark; $V_{DD} = 1.8 \text{ V}, T_{amb} = 25^{\circ}\text{C}$ | $I_{DD} (\text{SD})$ | - | 800 | - | nA |
| UVA responsivity | $t_{\text{r}} = 50 \text{ ms}$ ⁽¹⁾ | | - | 0.93 | - | counts/ $\mu\text{W}/\text{cm}^2$ |
| UVB responsivity | $t_{\text{r}} = 50 \text{ ms}$ ⁽²⁾ | | - | 2.1 | - | counts/ $\mu\text{W}/\text{cm}^2$ |
| Visible / infrared response | W-LED / IRED (940 nm) | | - | 0.5 | < 1 | % |

Notes

(1) Nichia NCSU033X (365 nm)

(2) UVTOP310TO39HS (315 nm)

IIC communication frequency: 10KHz~400KHz

Pin interface:

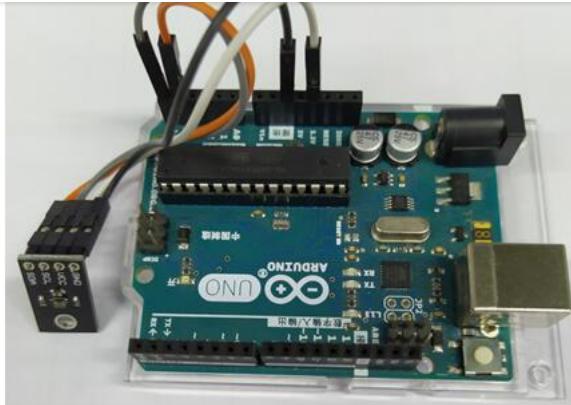
SCL: IIC clock signal line

SDA: IIC data signal line

VCC, GND power supply positive and negative

Instructions for use:

SCL is connected to A5, SDA is connected to A4, VCC is connected to 5V, GND is grounded, and the program is downloaded to For Arduino For UNO R3. The sensor is illuminated by different distances with light, and the serial port prints and outputs ultraviolet UVA, UVB and UVI.

| EC-Buying Ali Store | DESCRIPTION | CUSTOMER REVIEWS (11) | SPECIFICATIONS |
|---|--------------------|------------------------------|--|
| AD I WC H MAXI M ST C F M T I O N TOP POWER Micro Chip LIT EON Cross Chip AO-S J-S-C-J CT Mi-cro EXA R TOSHI BA SILICON LAB S LED SMD LED- 5050 Diode - 10MM LED SMD LED- 0805 SMD LED- 0603 Diode - 3MM LED SMD LED Other Diode SMD LED- 1206 SMD LED- 3528 Diode - 8MM LED Diode - 5MM LED | | |  |
| Diode Zener Diode Triode Cable & Wire& Line Ribbon Cable Electronic Wire Dupont Cable JTAG Cable FFC FPC& Flat Cable Heat Shrink Tube Connectors & Terminals JTAG Connector Aviation Plug Female Header Dupont Head Male Pin Antenna Relay Battery Box Row Pin Connectors HeatSink Socket Tool N35 Round Magnet Other Tool Battery Storage Box Programmer  Dedicated for fulfilling the freight  Others | DESCRIPTION | CUSTOMER REVIEWS (11) | SPECIFICATIONS |
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```

Example1_Stream_UV | Arduino 1.8.9
文件 编辑 项目 工具 帮助
Example1_Stream_UV

/*
  Using the VEML6075 -- UVA, UVB, and UV Index monitoring!
  By Jim Lindblom
  SparkFun Electronics
  Date: May 23, 2018
  License: This code is public domain but you buy me a beer if you use this and we meet someday (Beerware license).
  Feel like supporting our work? Buy a board from SparkFun!
  https://www.sparkfun.com/products/14716

  This example demonstrates how to initialize the VEML6075, then poll it for UVA, UVB, and UV index readings.

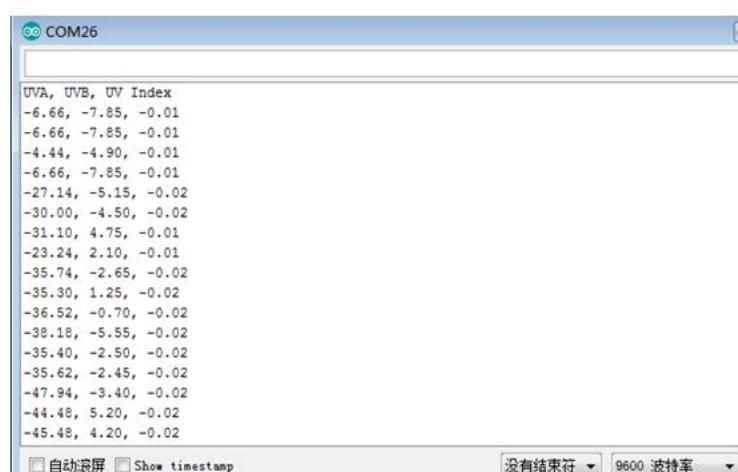
  Quick-start:
  - Use a SparkFun BlackBoard -or- attach the Qwiic Shield to your Arduino/Photon/E3F32 or other
  - Upload example sketch
  - Plug the Qwiic UV Sensor onto the BlackBoard/shield
  - Open the serial monitor and set the baud rate to 9600
  - Sensor readings will stream every ~250ms. Output is: <UVA>, <UVB>, <UV index>
*/
// Include the SparkFun VEML6075 library.
// Click here to get the library: https://librarymanager/All#SparkFun_VEML6075
#include <SparkFun_VEML6075_Arduino_Library.h>

VEML6075 uv; // Create a VEML6075 object

void setup() {
  Serial.begin(9600);
  // the VEML6075's begin function can take no parameters
  // It will return true on success or false on failure to communicate
  if (uv.begin() == false) {
    Serial.println("Unable to communicate with VEML6075.");
    while (1);
  }
  Serial.println("UVA, UVB, UV Index");
}

void loop() {
  // Use the uva, uvb, and index functions to read calibrated UVA and UVB values and a
  // calculated UV index value between 0-11.
  Serial.println(String(uv.uva()) + ", " + String(uv.uvb()) + ", " + String(uv.index()));
  delay(250);
}

```



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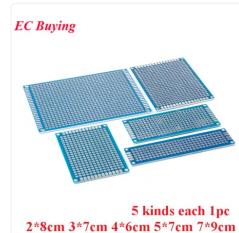
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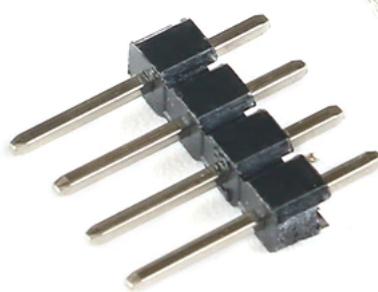
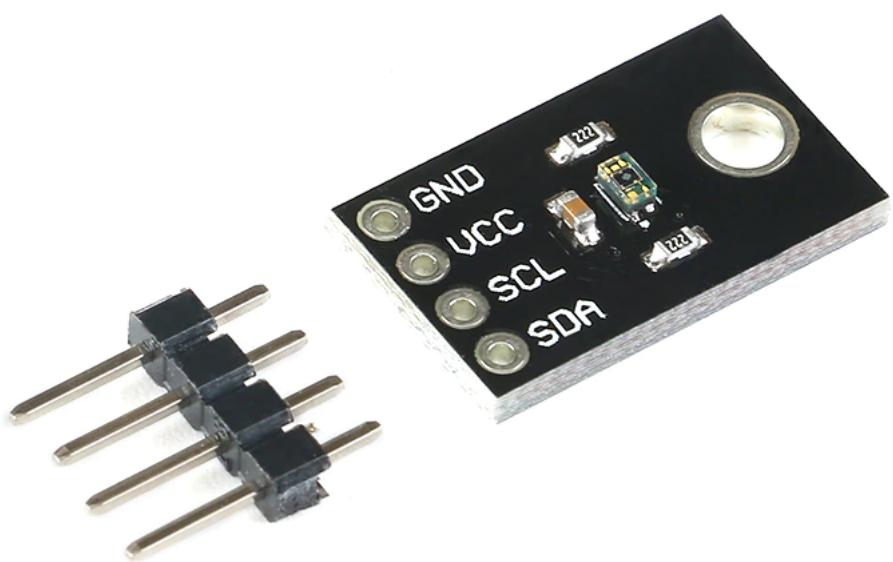
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VEML6070 UVA Sensor

Introduction:

The VEML6070 is an advanced CMOS ultraviolet (UV) light sensor that integrates a signal conditioner, photodiode, amplifier, and analog/digital circuitry in a single chip. The VEML6070 is available in a small size of 2.35x1.8x1.0mm. Excellent measurement capabilities make it ideal for handheld devices, wearables, and health monitoring and fitness devices.

High dynamic detection accuracy. The UV sensor contains an 8-bit command register that can be written over the I2C bus. All operations are controlled through this command register, and its simple command structure allows engineers to easily program operational settings and latch optical data from the sensor. The sensor's 16-bit resolution converts PV-Vibration sensitivity to digital data and an active response feature that allows the data to be issued based on a programmable threshold. It features excellent temperature compensation and programmable refresh rate settings without the need for an external RC low-pass filter.

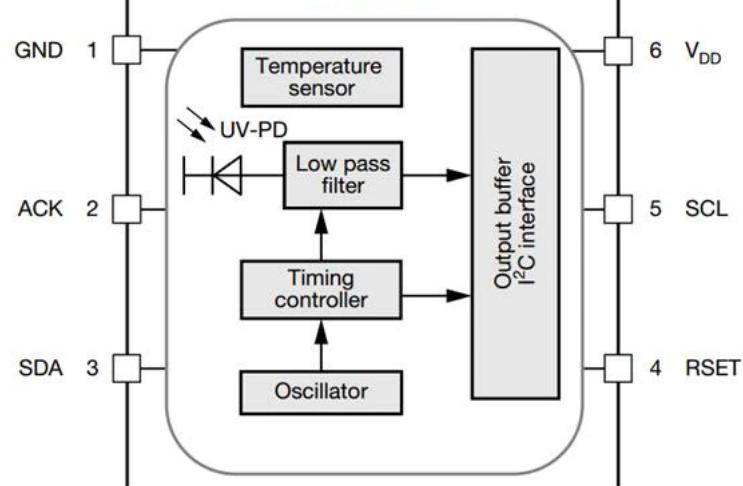


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VEML6070**Parameter:**

Working voltage: 2.7V~5.5V

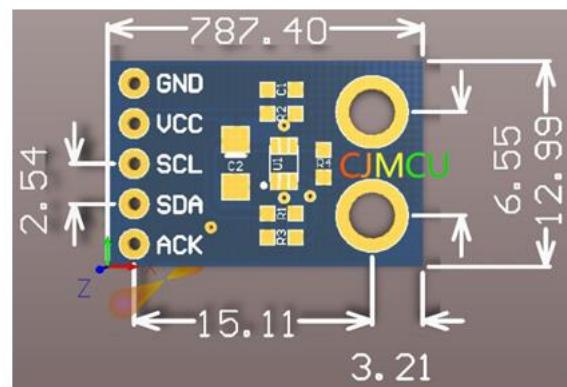
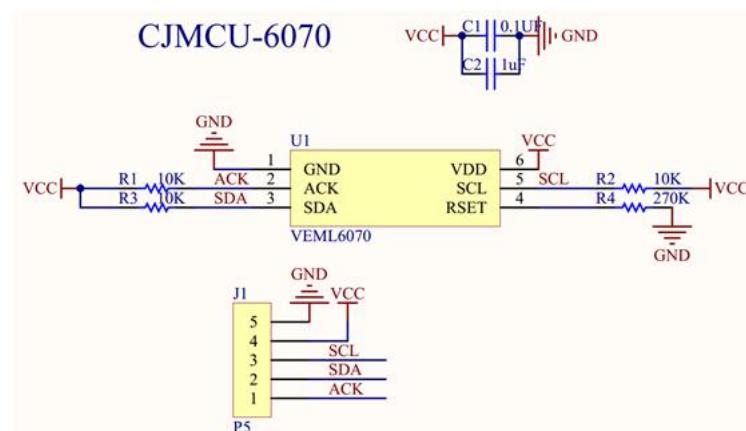
IIC communication frequency 10K~400KHz

Rated current is 250μA (power mode) and 1μA (standby mode)

Spectral sensitivity range UVA: 320~410nm,

Typical power density of 5μW/cm²/stepMaximum detection capability of 328mW/cm²

Working temperature: -40 ° C ~ 80 ° C

Pin interface:

SCL: IIC clock signal line

SDA: IIC data signal line

ACK: alarm signal line

VCC, GND power supply positive and negative

instructions for use:

EC-Buying Ali Store**DESCRIPTION**

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~~Program is downloaded to your Arduino for GY8511. The sensor is irradiated by different distances with light, and the serial port prints and outputs ultraviolet light.~~

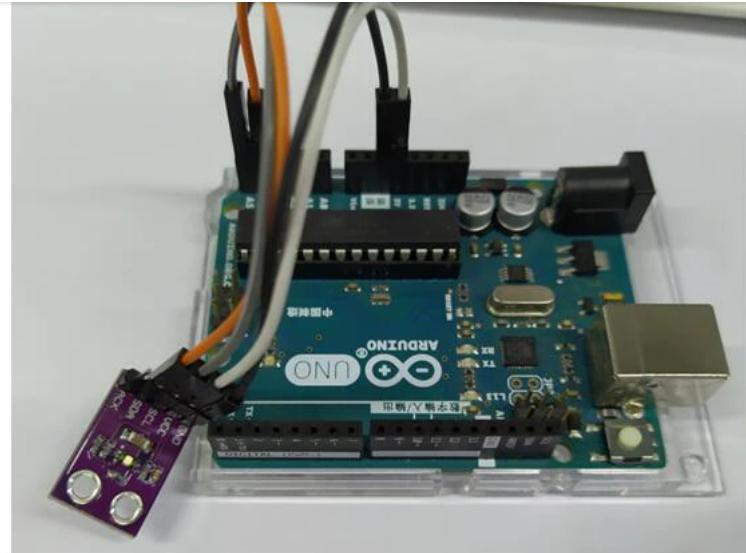


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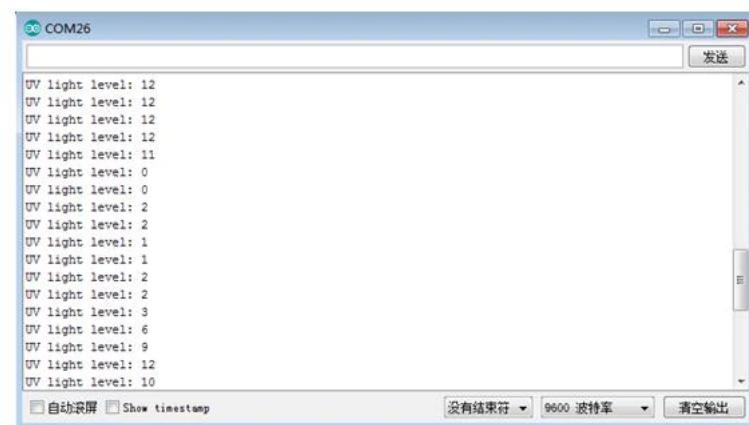
```
vermtest
#include <Wire.h>
#include "Adafruit_VEML6070.h"

Adafruit_VEML6070 uv = Adafruit_VEML6070();

void setup() {
    Serial.begin(9600);
    Serial.println("VEML6070 Test");
    uv.begin(VEML6070_1_T); // pass in the integration time constant
}

void loop() {
    Serial.print("UV light level: ");
    Serial.println(uv.readUV());

    delay(1000);
}
```

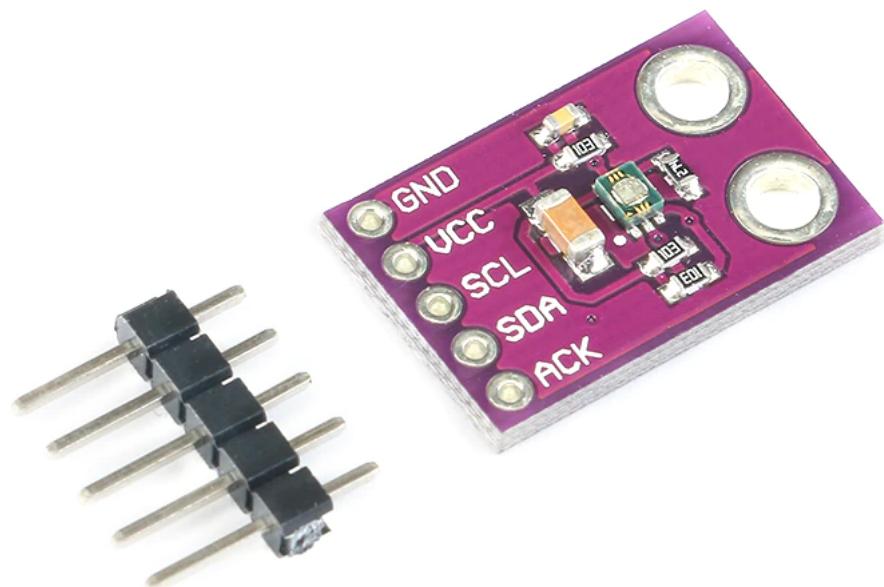


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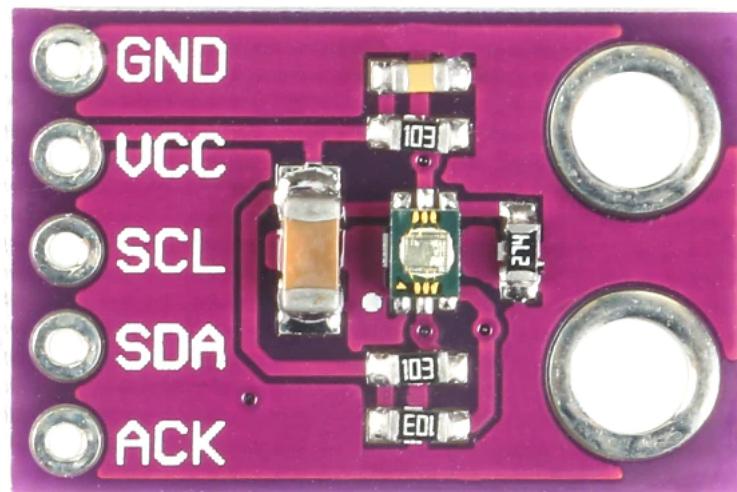


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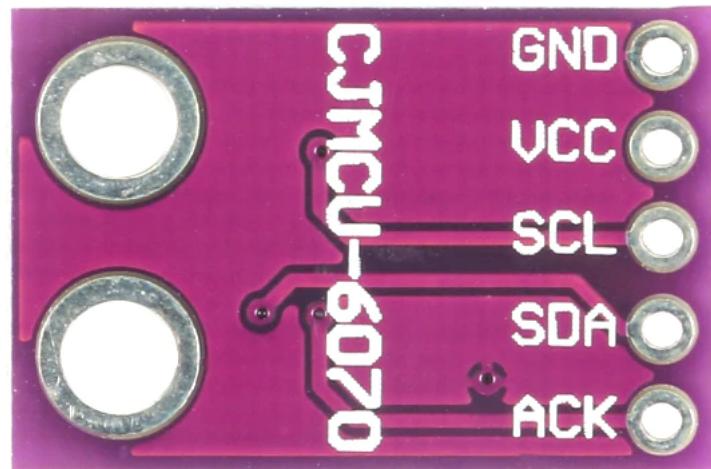


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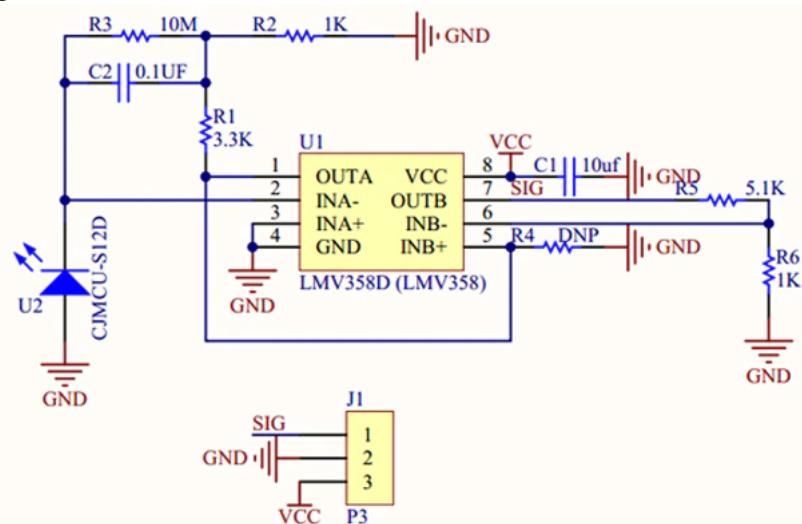
GUVA-S12SD

This UV detection module uses a GaN-based Schottky photodiode with high responsiveness and low current. The onboard LM358 amplifier amplifies the weak signal from the photodiode output. All components are 1% accurate. Manufacturing. Used in UV testers, UV watches, outdoor sports equipment, mobile phones, etc.

Parameter:

Wide detection wavelength range: 240nm-370nm

Large angle: 130 degrees



Power supply 5V, SIG amplification analog voltage signal output

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| | | | | | | |
|-------------------|---|---|---|---|---|---|
| 紫外线指数 UV Index | 0 |  |  |  |  |  |
| Vout(mV) | <50 | 227 | 318 | 408 | 503 | 606 |
| 紫外线指数 UV Index |  |  |  |  |  |  |
| Vout(mV) | 696 | 795 | 881 | 976 | 1079 | 1170+ |



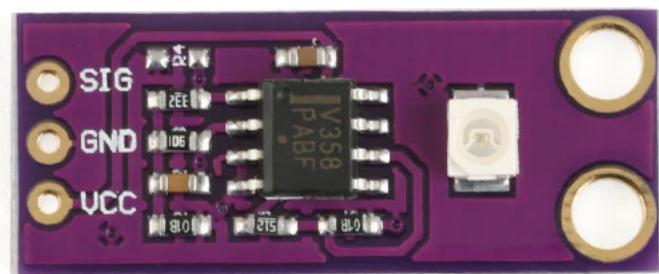
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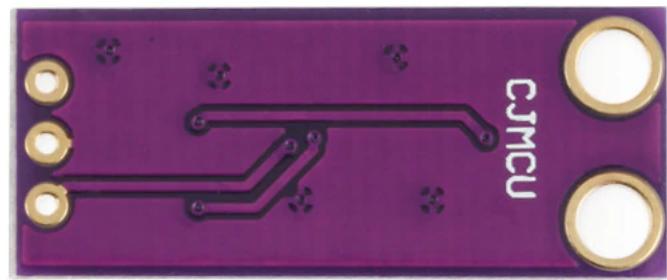
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GY-8511

Description:

The ML8511 breakout is an easy to use ultraviolet light sensor. The MP8511 UV (ultraviolet) Sensor works by outputting an analog signal in relation to the amount of UV light that's detected. This breakout can be very useful for creating devices that warn the user of sunburn or detect the UV index as it relates to weather conditions. This sensor detects 280-390nm light most effectively. This is categorized as part of the UVB (burning rays) spectrum and most of the UVA (tanning rays) spectrum. It outputs a analog voltage that is linearly related to measured UV intensity (mW / cm²). If your microcontroller can do an analog to digital signal conversion, you can detect the level of UV!

OKI (OKI) to launch the built-in operational amplifier ultraviolet (UV) sensor IC - ML8511. The use of SOI-coated product (SOI) on the insulating -CMOS, the company's first analog voltage output, no filter UV sensor. OKI's UV sensor IC is easy thanks to the high degree of integration of SOI-CMOS technology, suitable for use in analog circuits. OKI, said the company's future will utilize this expertise to strengthen the connection between the microprocessor digital output circuit, and then with the brightness control sensor sensing type (Ambient Light Sensor) constitute a single chip lineup of merchandise; hope not only to future products done for the data, but also to glance the amount of UV, and ready to grasp the degree of risk decorative UV measurement equipment, promote the application to appliances, portable field equipment.

ML8511 UV light can be used with an analog voltage output proportional to the amount. Since the output can therefore be directly connected to the MCU built A / D digital / analog converter, no photoelectric control circuit. And the use of small, low-profile surface-mount package, suitable for use in portable devices.

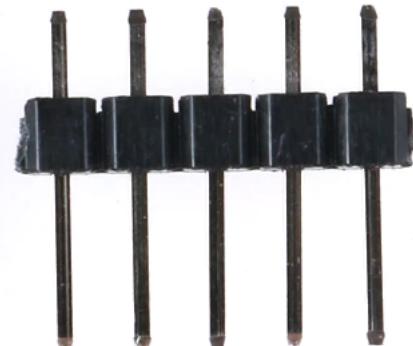
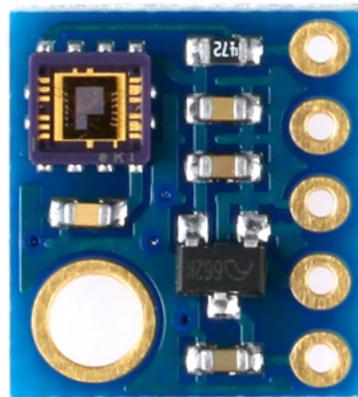


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UV Detection Sensor

Product parameters:

Working voltage: 3.3V-5V

Output voltage: DC 0-1V (corresponding to UV index 0-10)

Test accuracy: ±1UV INDEX

Response wavelength: 200nm-370nm

Stable operation: -20 ° C -85 ° C

Response time: less than 0.5 seconds

Operating current: typical value 0.06mA maximum 0.1mA

Wiring:

VCC- is the positive input port of the power supply, and is connected to the voltage of 3.3V-5V

GND-GND is the negative input of the power supply

OUT-OUT is the analog signal output port, which links the I/O port of the MCU

Note: The I/O port of the MCU should be set to input mode/receive mode, otherwise it will not be used MCUs, or more advanced control boards such as Arm, must be set to input mode/receive mode if the I/O needs to be set to input/output mode, otherwise it cannot be used. The 51 series MCU can be used directly to set the input and output mode.

Application:

Designed for applications requiring high reliability and accuracy in measuring UV Index (UVI)

Suitable for measuring the total amount of ultraviolet light in sunlight

Against the World Health Organization UV Index Grading Standard

Detecting UV wavelength: 200-370 nm

Very fast response and full interchangeability

UV index chart:

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| | | | | | | |
|----------|---------------|---------------|---------------|---------------|----------------|-----------------------------|
| UV Index | 0 | UV INDEX 1 | UV INDEX 2 | UV INDEX 3 | UV INDEX 4 | UV INDEX 5 |
| Vout(mV) | <50 | 227 | 318 | 408 | 503 | 606 |
| UV Index | UV INDEX 6 | UV INDEX 7 | UV INDEX 8 | UV INDEX 9 | UV INDEX 10 | UV INDEX 11 ⁺ |
| Vout(mV) | 696 | 795 | 881 | 976 | 1079 | 1170+ |

Schematic:

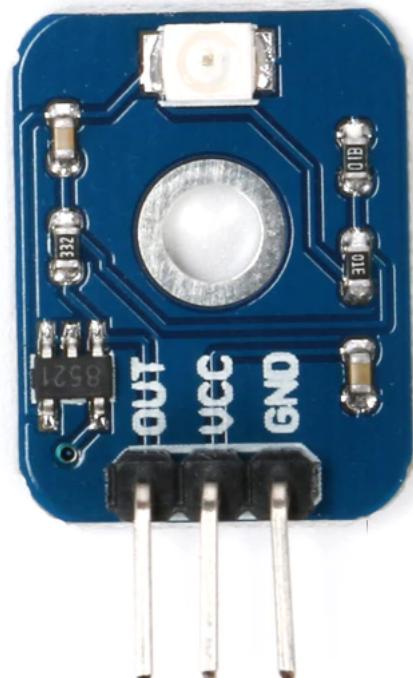
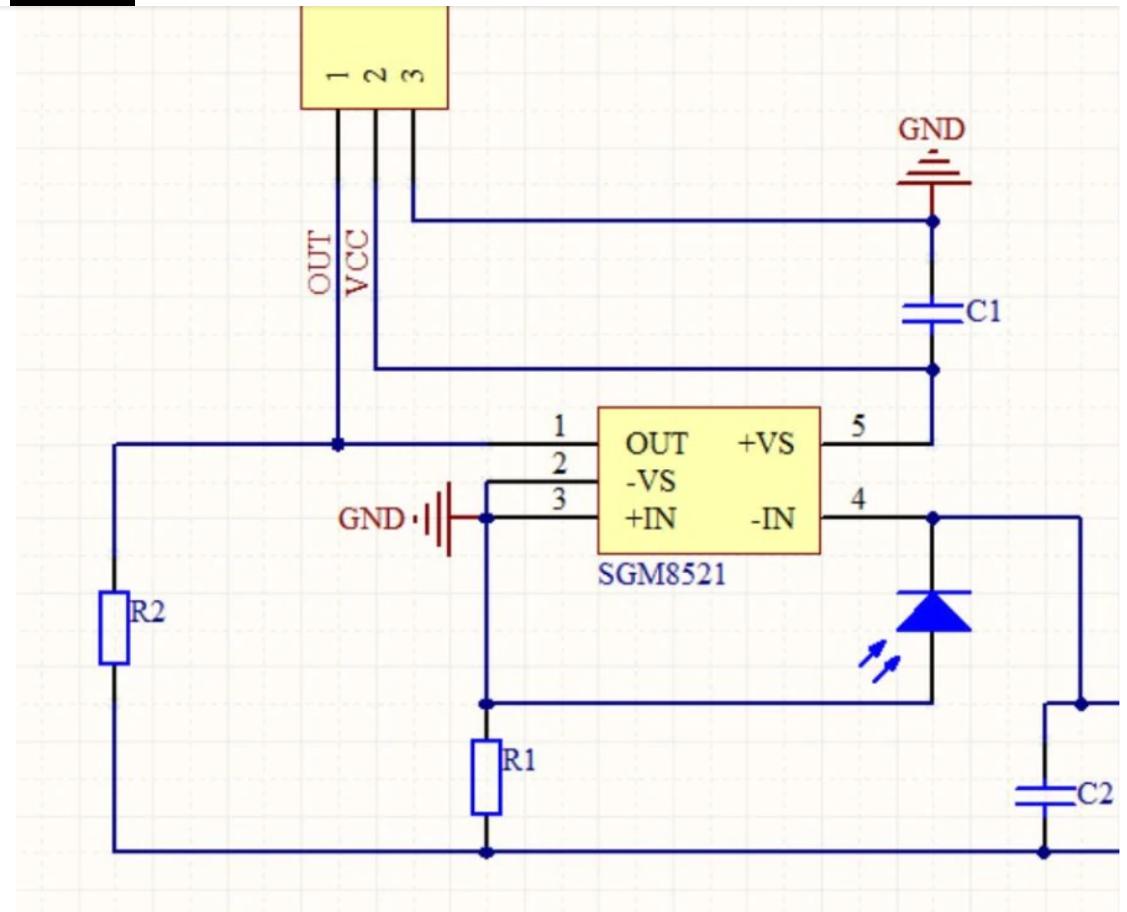


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| | Helpful? <input type="button" value="Yes ("/> | | |
| | N***s |   UK Color: UV Detection Sensor Logistics: AliExpress Saver Shipping quick delivery product as described 16 Jan 2023 03:54 | Helpful? <input type="button" value="Yes ("/> |
| | P***t |   FR Color: GUVA-S12SD Logistics: AliExpress Saver Shipping 25 Mar 2023 03:54 | Helpful? <input type="button" value="Yes ("/> |
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| | D***v |   RU Color: CJMCU-6075 Logistics: AliExpress Standard Shipping 06 Mar 2023 12:58 | Helpful? <input type="button" value="Yes ("/> |
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|  | G***s |   CL Color: GUVA-S12SD Logistics: AliExpress Saver Shipping 17 Nov 2022 15:20 | Helpful? <input type="button" value="Yes ("/> |
| | O***r |   RU Color: CJMCU-6070 Logistics: AliExpress Standard Shipping 04 Feb 2023 07:06 | Helpful? <input type="button" value="Yes ("/> |

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09 Dec 2022 13:56

[?] Can they measure the UV level or do they only see the presence of radiation?

Helpful? Yes (

[...] It also reacts to visible light and to IR! We need an amendment to the sketch.

View More ▾

R***o



BR

Color: GUVA-S12SD Logistics: AliExpress Standard Shipping

[?] Guys, how's your response to the flame of a gas burner? Would it be possible to make a flame sensor? Thank you.

Helpful? Yes (



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