

#### MATRIX Color Sensor V3 MS-002 V3

1.Feature

Warning: Color sensor V1,2 and V3 are **Different Sensors**, and use **Different Code**.

- · Red, Green, Blue (RGB), and Clear Light Sensing with IR Blocking Filter.
- · Programmable Analog Gain and Integration Time.
- · On-board auto fill light.

### 2. Application

- · Signage recognize
- · Industrial automation
- · Light Color Temperature Measurement

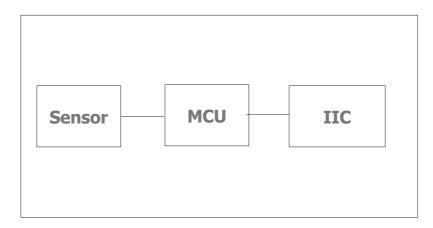


#### 3. Introduction

The MATRIX Color Sensor V3 is an RGB color sensor with <u>TCS34725</u>. The on-board fill light allows the sensor to work under low illumination conditions.

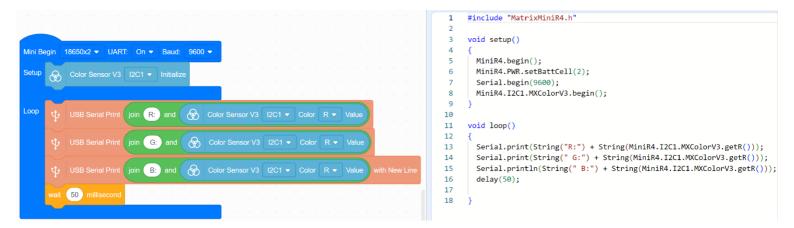
The sensor also features programmable analog gain and integration time, allowing you to adjust the sensor configuration to match your needs.

#### 4. Block Diagram



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### 4.Example Code of Block and C++



· After download program into controller, open Serial Monitor to observe.

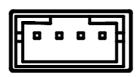
## 5. Hardware Spec

· Voltage: 3.3v - 5v

· Red channel wavelength: 465nm

· Green channel wavelength: 525nm

· Blue channel wavelength: 615nm



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JST PH2.0

Pinout-I2C			
NO.	Name	I/O	Description
1	SDA	I/O	Serial data line.
2	SCL	I	Serial clock line.
3	VCC	0	Supply voltage.
4	GND	-	Supply ground.

· For More technical info of Sensor, Please visit <u>manufacturer datasheet</u>.