Stamp-AddOn Cam3660

SKU:A182

















Description

Stamp-AddOn Cam3660 is a CMOS camera expansion module designed for the Stamp-S3Bat. It is equipped with a 3MP OV3660 image sensor and features an L-shaped flexible FPC cable, connecting to the mainboard via a 0.4mm-24P B2B board-to-board connector. A metal mounting hole is provided on the side of the lens. The module outputs images through an 8-bit DVP parallel interface and configures the

sensor registers via the SCCB bus, supporting image capture at up to 3MP (2048 × 1536) resolution. With its compact size, the module is suitable for installation in devices with limited space and can be used in embedded vision scenarios such as image capture, visual recognition, and video transmission.

Features

- Designed for the Stamp-S3Bat
- 3MP OV3660 CMOS image sensor
  - Supports up to 2048 × 1536 resolution
  - Supports JPEG, RAW RGB, RGB565/555/444, CCIR656, and YCbCr422 image output formats
- 8-bit DVP parallel image output interface
- SCCB configuration bus (electrically compatible with I2C)
- Supports PWDN low-power control and hardware reset
- L-shaped flexible FPC, integrated with a 0.4mm-24P B2B board-to-board connector
- Side metal mounting hole for easy installation and fixation

Includes

- 1 x Stamp-AddOn Cam3660

Applications

- Embedded image capture
- Object recognition and visual inspection
- QR code recognition
- Video surveillance and wireless image transmission
- IoT vision sensor nodes

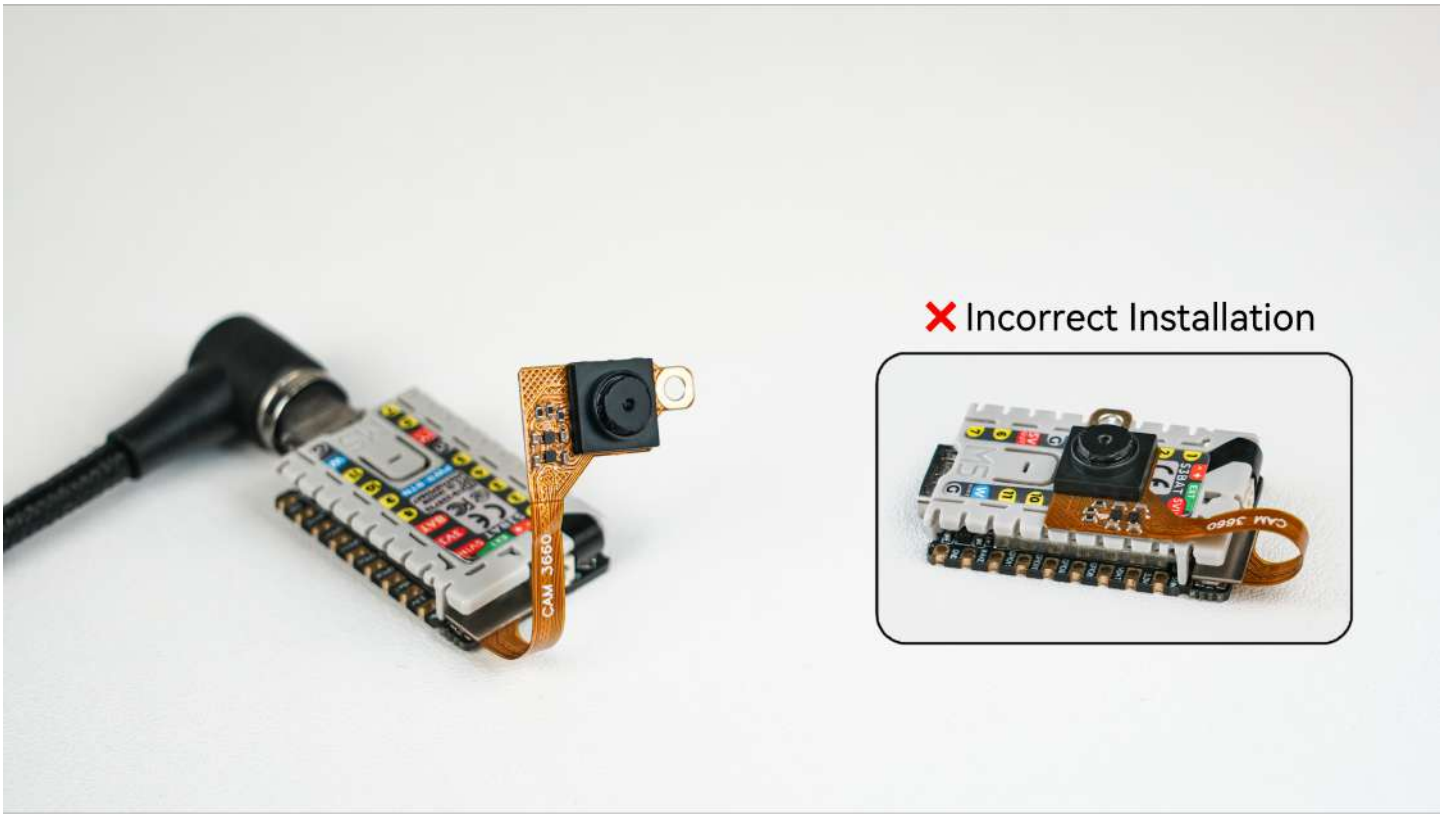
Specifications

Specification	Parameter
Image Sensor	OV3660 CMOS
Active Pixels	3MP
Max Resolution	2048 x 1536
Lens Size	1/5 inch
Focal Length	2.97 ±5% mm
Aperture	F2.0 ±5%
Field of View	60°
Distortion	<1.5%
Focus Mode	Fixed Focus (FF)
Shooting Range	20cm ~ ∞
Focusing Distance	80cm
Supported Resolutions	QVGA (320 x 240) / VGA (640 x 480) / HD (1280 x 720) / QXGA (2048 x 1536)
Max Frame Rate	30fps
Output Format	JPEG, RAW RGB, RGB565/555/444, CCIR656, YCbCr 4:2:2
Image Output Interface	8-bit DVP parallel interface
Communication Address	I2C @ 0x3C
Connection	0.4mm-24P B2B connector
Product Size	37.4 x 16.3 x 4.8mm
Product Weight	0.7g
Package Size	138.0 x 93.0 x 10.0mm
Gross Weight	3.8g

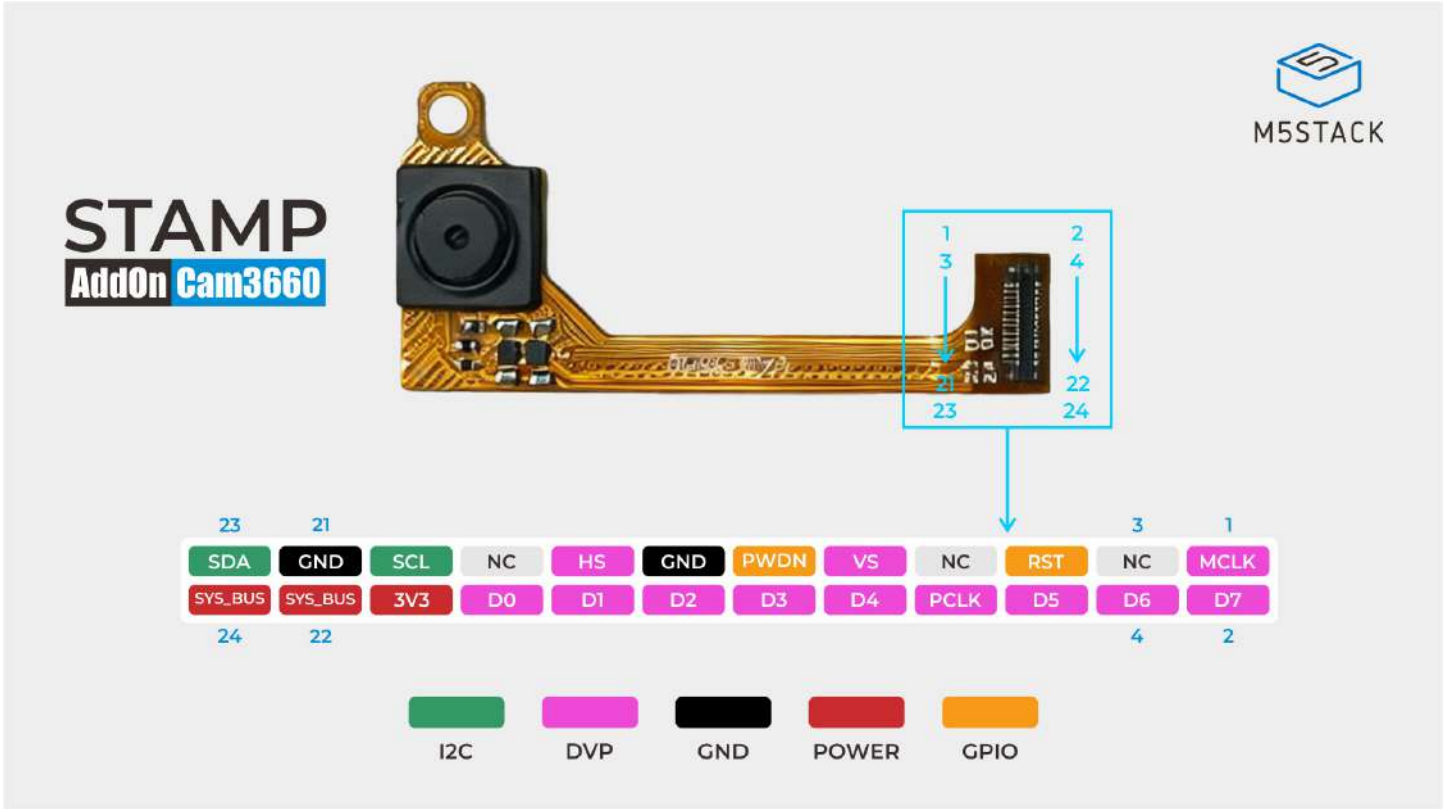
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Installation Notes

The camera bracket is made of metal. During installation, do not place it near or touch the FPC antenna of the **Stamp-S3Bat**, to avoid interfering with signal transmission and causing abnormal device operation.


Incorrect Installation

PinMap


M5STACK
STAMP
AddOn Cam3660
1
3
2
4
22
24
23
21
23
21
3
1
SDA
GND
SCL
NC
HS
GND
PWDN
VS
NC
RST
NC
MCLK
SYS_BUS
SYS_BUS
3V3
D0
D1
D2
D3
D4
PCLK
D5
D6
D7
24
22
4
2
I2C
DVP
GND
POWER
GPIO

EXP.B2B	Stamp-AddOn Cam3660	Stamp-S3Bat
1	MCLK	G46
2	D7	G40
3	NC	G45
4	D6	G38
5	RESET	G41
6	D5	G12
7	NC	G43
8	PCLK	G13
9	VS	G42
10	D4	G14
11	PWDN	G39
12	D3	G15
13	GND	GND
14	D2	G16
15	HS	G17
16	D1	G18
17	NC	G44
18	D0	G21
19	SCL	G47
20	3V3	3V3
21	GND	GND
22	SYS_VBUS (DC 3.7 ~ 5V)	SYS_VBUS
23	SDA	G48
24	SYS_VBUS (DC 3.7 ~ 5V)	SYS_VBUS

Datasheets

- OV3660

Softwares

Arduino

- Stamp-AddOn Cam3660 Arduino Quick Start

ESP-IDF

- Stamp-AddOn Cam3660 UVC Example
- Stamp-AddOn Cam3660 WebServer Example

Home Assistant

- Stamp-AddOn Cam3660 ESPHome Integration

Other

- UVC Camera WebBurner
- Web Camera WebBurner

Video

Product Comparison

Product Comparison		
	Stamp-AddOn Cam3660	**Stamp-AddOn Cam0308**
Image Sensor	OV3660 CMOS	GC0308 CMOS
Active Pixels	3MP	0.3MP
Max Resolution	2048 x 1536	640 x 480
Field of View	60°	57.6°
Aperture	F2.0 ±5%	F2.8 ±5%
Distortion	<1.5%	<1.0%
Output Format	JPEG, RAW RGB, RGB565/555/444, CCIR656, YCbCr 4:2:2	YCbCr 4:2:2, RGB565, Raw Bayer
Image Output Interface	8-bit DVP parallel interface	8-bit DVP parallel interface
Communication Address	I2C @ 0x3C	I2C @ 0x21