



# Sensor Module

## iSM-IMX334M



# SONY

Powered by Sony

### Key features:

- Ready to embed with iENSO vision platform ecosystem
- 8.8MP resolution and 4Kp60 video performance
- Featured with digital overlap HDR
- BSI structure to achieve high-sensitivity and high-quality image in multiple lighting conditions

- Standard MIPI CSI-2 output interface
- Various lens options available

### Compatible embedded vision camera platforms:

- iENSO iVS-CV28P
- iENSO iVS-CV22
- Any camera platform supporting MIPI CSI-2 interface

Image Sensor	
Sensor Model	Sony IMX334 (MONO)
Shutter Type	Rolling Shutter
Chromaticity/Signal Type	Monochrome
Optical Format	1/1.8"
Pixel Size	2.0 x 2.0 $\mu$ m
Max. Resolution	8.8MP / 3952 x 2320
Frame Rate (max.)	60 fps / 10 bit 60 fps / 12 bit
Bit Depth(s)	10 / 12 bit
HDR	Supported, Digital overlap

Interface	
Data Interface	MIPI CSI-2 (2 / 4 lane)
Communication Interface	I2C
Input Voltage	3.3V
Interface Connector	Hirose FH58 series • FH58-41S-0.2SHW

Mechanical	
Dimensions (w/o Lens)	26 x 26 mm

Optical	
Lens Mount	M12
Optical	Consult iENSO for lens options

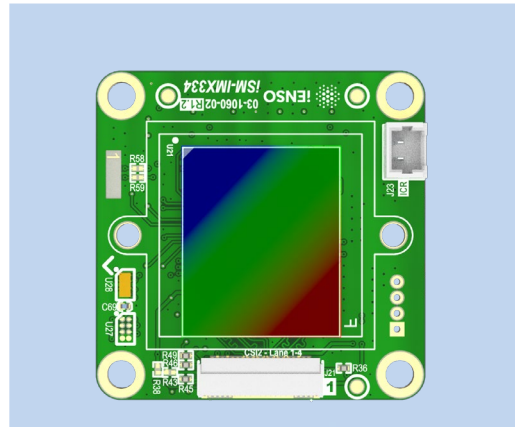
Environmental	
Operating Temperature	-30°C to +85°C (Function) -10°C to +60°C (Performance)
Storage Temperature	-40°C to +85°C
Ambient Humidity	20% to 90% RH, non-condensing



### Give your vision the edge

- Application-based turnkey embedded vision solutions
- Edge AI for powerful on-device decision-making
- Flexible Cloud platform and end-to-end security

## Sensor Module Pinout



PIN	Name	PIN	Name
1	1.8V	21	GND
2	CV MISO	22	DMO0 N
3	CV MOSI	23	GND
4	CV EN0	24	DMO0 P
5	CV CLK	25	GND
6	+1V2D	26	DMO2 N
7	SDA3	27	GND
8	SCK3	28	DMO2 P
9	GND	29	GND
10	DMO3 N	30	MCLK0
11	GND	31	GND
12	DMO3 P	32	SDA0
13	GND	33	SCK0
14	DMO1 N	34	PS
15	GND	35	GND
16	DMO1 P	36	ICR CTL 0
17	GND	37	GND
18	DCLK N	38	+3V3 AUX
19	GND	39	Vsync-H
20	DCLK P	40	Hsync-H
		41	RST N-H

Connector Type: Hirose FH58-41S-0.2SHW

## Popular Applications

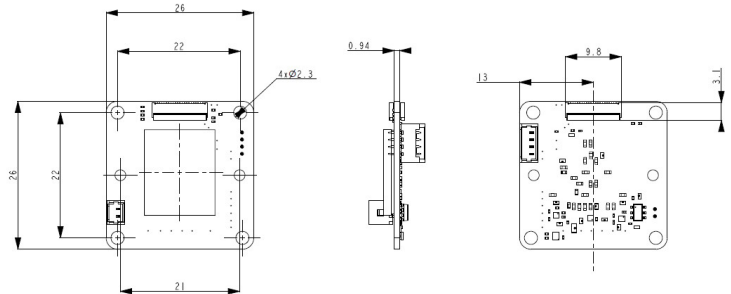


INDUSTRIAL /  
ROBOTICS



DRONES

## Mechanical Drawing



### iENSO Sensor Module Test Platform

High-speed USB3.0 output

Standard MIPI CSI-2 interface

Optics focus checking

RAW image configuration

Compatible with OS Windows 7 and above

### iENSO Sensor Module EVK

- iSM Test Platform
- Sensor Module: iSM-IMX334
- Included Optics:
  - Lens#1: 10mm, F6.0, HFOV 42 degrees

For more information, visit [iENSO.com](http://iENSO.com)

- Custom module and optics available upon request
- Minimum order quantities may apply
- Contact sales to discuss your specific needs



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