



VISION



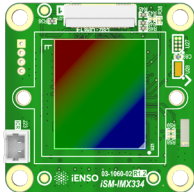
AI



CLOUD



SECURITY



SONY
Powered by Sony

Sensor Module

iSM-IMX334

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
Shutter Type	Rolling Shutter
Chromaticity/Signal Type	Color/RGB
Optical Format	1/1.8"
Pixel Size	2.0 x 2.0 μm
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

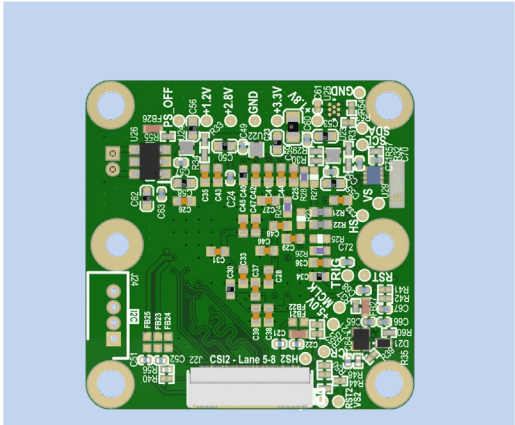
Mechanical	
Dimensions (w/o Lens)	26 x 26 mm
Optical	
Lens Mount	M12

Optical	Consult iENSO for lens options
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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

- 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



J22 Pin 1			
PIN	Name	PIN	Name
1	RST2_N	21	GND
2	Hsync2	22	DCLK1 P
3	Vsync2	23	GND
4	3.3V	24	DCLK1 N
5	3.3V	25	GND
6	ICR_CTL 1	26	DMO5 P
7	GND	27	GND
8	5.0V	28	DMO5 N
9	SCK2	29	GND
10	SDA2	30	DMO7 P
11	GND	31	GND
12	MCLK2	32	DMO7 N
13	GND	33	GND
14	DMO6 P	34	SCK3
15	GND	35	SDA3
16	DMO6 N	36	1V2D
17	GND	37	CV CLK2
18	DMO4 P	38	CV EN2
19	GND	39	CV MOSI2
20	DMO4_N	40	CV MISO2
		41	1.8V

Connector Type: Hirose FH58-41S-0.2SHW

Popular Applications

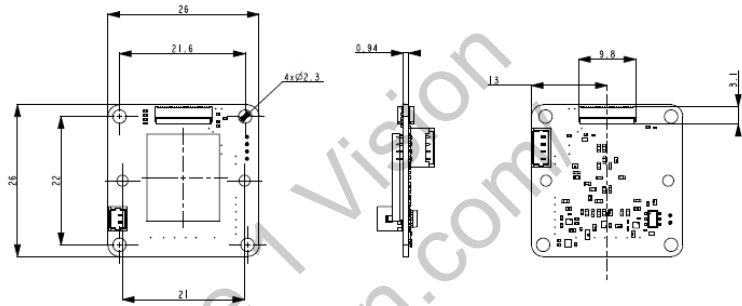


INDUSTRIAL /
ROBOTICS



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](https://www.ienso.com)

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



www.ienso.com



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