



VISION



AI



CLOUD



SECURITY

Sensor Module

iSM-IMX283



Shown with optional sensor module

SONY
Powered by Sony

Key features:

- Ready to embed with iENSO vision platform ecosystem
- 20MP resolution and 4Kp60 video performance
- Type 1" image sensor with square pixel for color cameras
- 12-bit digital output for high-speed and high-definition moving pictures
- 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 IMX283
- Shutter type: Rolling Shutter
- Chromaticity / Signal Type: Color / RGB
- Optical Format: 1 inch
- Pixel Size: 2.4 x 2.4 μm
- Max. Resolution: 20.7MP / 5592 x 3710
- Frame Rate (max):
 - 60 fps / 10bit
 - 60 fps / 12bit
- Bit Depth(s): 10 / 12 bit

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

Popular Applications



SECURITY



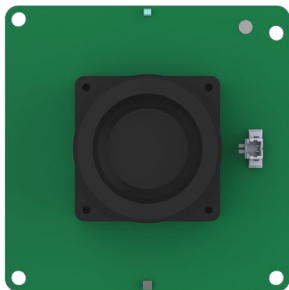
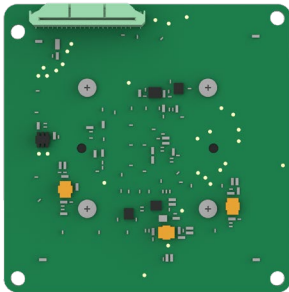
PRECISION FARMING



DRONES



INDUSTRIAL /
ROBOTICS



Shown with optional sensor module

Interface

Data Interface	MIPI CSI-2
Communication Interface	I2C
Input Voltage	Analog 2.9V; Digital 1.2/1.8V
Interface Connector	FPC connector 40 pin

Mechanical

Dimensions (w/o Lens)	89 x 89 mm
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Optical

Lens Mount	C
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

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-IMX283
- Included Optics:
 - Lens#1: Type C, 12mm, F1.4, HFOV 65 degrees
 - Lens#2: Type C, 7.0mm, F2.4, HFOV 100 degrees

For more information, visit 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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