

iENSO USB3 Sensor Module Evaluation Kit

iSM-USB-EVK

Image Sensor Modules are an essential component of any embedded vision application. When designing a camera for an application, finding the right image sensor can be a challenging part of the project as there are many variables to consider. The iENSO Sensor Module evaluation kit (iSM EVK) is a tool for R&D teams to 'test drive' some of the most popular CMOS image sensors from leading technology partners such as Sony™ and Onsemi™. The evaluation kit offers a quick and efficient way to demonstrate sensors performance and features using a software interface that gives you control of image settings.



iENSO Sensor Module for Reference



EVK kit shown in display case

Highlights

- Supports multiple image sensor modules, with resolutions from 720p to 20MP
- Standard MIPI CSI2 interface support
- Pre-loaded drivers to make setup and use simple
- High speed USB 3.0 Output
- Image Analysis Software enables image streaming and adjustment
- Software is compatible with Windows 7, 8 and 10

EVK Software Application

- Supports real-time streaming
- Full control of sensor and image quality parameters
- Image quality measurement capabilities
- Optical parameters adjustment

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



Compatible iENSO MIPI Sensor Modules

| Sensor Module | Sensor Brand | Sensor Model | Resolution | Optical Format (inch) | Available Standard Lenses HFOV (°) |
|---------------|--------------|--------------|------------|-----------------------|------------------------------------|
| iSM-IMX415 | Sony | IMX415 | 8MP | 1/2.8 | 75 |
| | | | | | 85 |
| iSM-IMX462 | Sony | IMX462 | 2MP | 1/2.8 | 70 |
| | | | | | 100 |
| iSM-IMX577 | Sony | IMX577 | 12MP | 1/2.3 | 72 |
| | | | | | 90 |
| iSM-IMX334 | Sony | IMX334 | 8MP | 1/1.8 | 42 |
| iSM-AR0144 | ONsemi | AR0144 | 1MP | 1/4 | 50 |
| | | | | | 80 |
| iSM-AR0234 | ONsemi | AR0234 | 2MP | 1/2.6 | 65 |
| | | | | | 105 |
| iSM-AR0521 | ONsemi | AR0521 | 5MP | 1/2.5 | 70 |
| | | | | | 90 |
| iSM-IMX283 | Sony | IMX283 | 20MP | 1 | 65 |
| | | | | | 100 |

For full sensor module product information visit: <https://www.ienso.com/mipi-sensors/>

iSM-USB-EVK includes:

- Sensor Interface Board
- Main Processing Unit
- MIPI Sensor Module(s)
- Lens(es)
- Flexible printed circuit (FPC) cable
- 12V Power Supplies
- Instructions

Ordering Information:

Contact us at EVK@ienso.com for additional sensor module options or for customized optics inquiries.



EVK compatible with 2 sensor modules sizes



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