S2 Sensor

SNAPsensor illumination-independent, information-extraction image sensors are used by OEMs for a wide range of visual sensing applications including detection, identification and guidance.

The patented sensors identify features within bright light, dark shadow and reflective surface areas. The first and every image is correctly exposed, even when light levels change suddenly.

With real-time edge detection and image management carried out on the sensor, inexpensive processors are added to create highly cost-effective, low-power OEM sensing solutions.

Projects are brought to market quickly with the help of expert support engineers, application development software library and hardware prototyping platforms.

Applications

The S2 image sensor has many special features. The unique combination of benefits it provide make it the ideal solution for many visual sensing tasks in a wide range of application areas.

The sensor is particularly suitable for applications where image consistency and robust feature-detection are critical. It also scores highly where deployment flexibility, low system cost and fast time-to-market are essential.
Technology
The S2 sensor uses patented time-domain logarithmic encoding to yield a very wide intra-scene dynamic range and to optimally expose every image. On-chip real-time edge extraction processing and image memory enable low-cost, low power processors to be used with the S2 sensor.

Product Options
The S2 Sensor is available in a range of packaged options from sensor die to fully integrated sensor system to match the price, assembly process and “time to market” requirements of each customer.

OEM Support
We understand the pressures OEMs (Original Equipment Manufacturers) and ODMs (Original Design Manufacturers) are under having to learn about unfamiliar technology at the same time as bringing new products to market. Our range of support services are designed to help deal with these issues.

- Expert Support Engineers
- Driver and image software library
- Analog Devices/Texas Instruments development kits
- Prototyping on standard SNAP Sensor products

Key Benefits
- Illumination independent feature extraction
- Capture of very high intra-scene dynamic range
- First and every shot optimally exposed
- All pre-processing on sensor, zero setup delay
- Post processing on low-cost or shared processor
- Sensor head can be mounted remotely from processor

Find Out More
Contact us at any time to discuss your application, so that we can advise and help you with project specifications, vision processing, hardware schematics, software optimisation, product packaging, test image databases, optics sourcing, power requirements and documentation.

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