XGS5000

CMOS Image Sensor, 5.3 MP, Global Shutter

Product Overview

For complete documentation, see the data sheet.

Information

The XGS 5000 is a 5.3 Mp (2592 x 2048) CMOS image sensor in 2/3 inch optical format, supporting up to 132 frames per second readout with 12-bit output at full resolution.

The device provides high resolution, global shutter imaging with high readout speed for industrial imaging customers. A compact package design and low power footprint make the device compatible with a 29 x 29 mm2 camera footprint. Two speed grades are available to match device output to key computer interfaces and application requirements.

The XGS 5000 shares a common design and footprint with other members of the XGS family, allowing one camera design to support multiple resolutions to simplify and speed time to market fo rnew camera designs.

The XGS 5000 is available in a 163-pin iLGA package in both monochrome and Bayer color configurations.

Features

- Advanced 3.2 µm global shutter pixel
- Energy efficient design
- Compact package
- Available speed grades

Applications

- Image Capture

End Products

- Industrial cameras and systems
- Inspection system (food, bottles, recycling labels, etc.)
- Intelligent Transportation Systems (ITS)
- Security cameras and systems
- Machine Vision camera

Part Electrical Specifications

Product	Status	Compilance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
NOIX4SN5000B-LTI	Active		CMOS	5.3	132	2/3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	ILGA 163 16x16	710AB.PDF	4	245	JTRAY	84
NOIX5SE5000B-LTI	Active		CMOS	5.3	43	2/3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	ILGA 163 16x16	710AB.PDF	4	245	JTRAY	84
NOIX5SN5000B-LTI	Active		CMOS	5.3	43	2/3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	ILGA 163 16x16	710AB.PDF	4	245	JTRAY	84
NOIX4SE5000B-LTI	Active		CMOS	5.3	132	2/3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	ILGA 163 16x16	710AB.PDF	4	245	JTRAY	84