

## 製品概要

### KAI-29050: Interline Transfer CCD Image Sensor, 28.8 MP

技術情報は、データシートをご参照ください。

The KAI-29050 Image Sensor is a 29-megapixel CCD in a 35 mm optical format (43 mm diagonal). Based on an advanced 5.5 micron Interline Transfer CCD Platform, the sensor features broad dynamic range, excellent imaging performance, and a flexible readout architecture that enables use of 1, 2, or 4 outputs for full resolution readout up to 4 frames per second. A vertical overflow drain structure suppresses image blooming and enables electronic shuttering for precise exposure control.

The sensor is available with a Sparse Color Filter Pattern, a technology which provides a 2x improvement in light sensitivity compared to a standard color Bayer part.

The sensor shares common PGA pin-out and electrical configurations with other devices based on the 5.5 micron Interline Transfer CCD Platform, allowing a single camera design to be leveraged to support multiple members of this sensor family.

## 特長

- Monochrome, Bayer Color, and Sparse Color Filter Pattern configurations
- Progressive scan readout
- Flexible readout architecture
- High frame rate
- High sensitivity
- Low noise architecture
- Excellent smear performance
- Package pin reserved for device identification

## アプリケーション

- Image Capture

## 最終製品

- Machine Vision camera
- Intelligent Transportation Systems (ITS) camera
- Digitization camera
- Mapping / Aerial Surveillance camera
- Surveillance imaging

## 電氣的仕様

製品	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Output Interface	Color	Package Type
KAI-29050-AXA-JD-AE	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Mono	CPGA-72
	Halide free										
KAI-29050-AXA-JD-B1	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Mono	CPGA-72
	Halide free										
KAI-29050-AXA-JD-B2	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Mono	CPGA-72
	Halide free										
KAI-29050-AXA-JR-AE	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Mono	CPGA-72
	Halide free										
KAI-29050-AXA-JR-B1	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Mono	CPGA-72
	Halide free										
KAI-29050-FXA-JD-AE	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Bayer Color	CPGA-72
	Halide free										
KAI-29050-FXA-JD-B1	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Bayer Color	CPGA-72
	Halide free										
KAI-29050-FXA-JD-B2	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Bayer Color	CPGA-72
	Halide free										
KAI-29050-QXA-JD-AE	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Sparse CFA	CPGA-72
	Halide free										
KAI-29050-QXA-JD-B1	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Sparse CFA	CPGA-72
	Halide free										
KAI-29050-QXA-JD-B2	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Sparse CFA	CPGA-72
	Halide free										
KAI-29050-QXA-JX-AE	Pb-free	Active	Interline CCD	28.8	4	35 mm	Electronic	5.5 x 5.5	Analog	Sparse CFA	CPGA-72
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	Halide free										

詳細は、弊社 [www.onsemi.jp](http://www.onsemi.jp) の営業または販売代理店にお問い合わせください。

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