

Product Overview

KAI-43140: Interline Transfer CCD Image Sensor, 43.1 MP

For complete documentation, see the data sheet.

EOL has been announced for this device

The KAI-43140 image sensor is a 43 megapixel CCD in a 35 mm optical format. Leveraging a 4.5 μm pixel design that provides a 50% resolution increase compared to the KAI-29050 and KAI-29052 devices, the KAI-43140 provides excellent image uniformity and broad dynamic range. A flexible output architecture supports 1, 2, or 4 outputs for full resolution readout of up to 4 frames per second, and a true electronic shutter enables image capture without motion artifacts across a broad range of exposure times.

In addition to standard monochrome and Bayer Color configurations, the sensor is available in a Sparse CFA configuration which provides a 2x improvement in light sensitivity compared to the standard Bayer Color part. The sensor shares the same package as the KAI-29050 and KAI-29052 image sensors, simplifying camera design.

Features

- High resolution image capture in 35 mm optical format
- True electronic shutter with broad exposure latitude
- Low noise architecture
- Excellent smear performance
- Monochrome, Bayer Color, and Sparse Color Filter Pattern configurations

Applications

- Image Capture

End Products

- Machine Vision camera
- Industrial Imaging / Inspection camera
- Security / Surveillance camera
- Mapping / Aerial Imaging camera

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