

Product Overview

KAI-16070: Interline Transfer CCD Image Sensor, 15.7MP

For complete documentation, see the data sheet.

EOL has been announced for this device

The KAI-16070 Image Sensor is a 16-megapixel CCD in a 35 mm optical format (43 mm diagonal). Based on an advanced 7.4 micron Interline Transfer CCD Platform, the sensor provides very high smear rejection and up to 82 dB linear dynamic range through the use of a unique dual-gain amplifier. Flexible readout architecture enables use of 1, 2, or 4 outputs for full resolution readout up to 8 frames per second, while 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 pin-out and electrical configurations with a full family of Interline Transfer CCD image sensors, allowing a single camera design to be leveraged in support of multiple devices.

Features

- Monochrome, Bayer Color, and Sparse Color Filter Pattern configurations
- Superior smear rejection
- Up to 82 dB linear dynamic range
- Progressive scan & flexible readout architecture
- High frame rate
- High sensitivity - Low noise architecture
- Package pin reserved for device identification

Applications

- Digitization
- Intelligent Transportation System
- Machine Vision
- Mapping / Aerial
- Medical

For more information please contact your local sales support at www.onsemi.com.

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