

## KAI-04070

# Interline Transfer CCD Image Sensor, 4.2 MP

## Product Overview

For complete documentation, see the data sheet.

EOL has been announced for this device

The KAI-04070 Image Sensor is a 4-megapixel CCD in a 4/3 inch optical format. 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. A flexible readout architecture enables use of 1, 2, or 4 outputs for full resolution readout up to 28 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

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

## Applications

- Intelligent Transportation Systems
- Machine Vision
- Surveillance