

## KAI-29050

# Interline Transfer CCD Image Sensor, 28.8 MP

## Product Overview

For complete documentation, see the data sheet.

EOL has been announced for this device

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.

## Features

- 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

## Applications

- Image Capture

## End Products

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