



Product Overview

KAI-0330: Interline Transfer CCD Image Sensor, VGA

For complete documentation, see the [data sheet](#)

Product Description

The KAI-0330 Image Sensor is a high performance, low cost, progressive scan 648(H) x 484(V) (1/2" optical format) Interline CCD Image Sensor designed specifically for demanding machine vision, surveillance, and computer input imaging applications.

Available in both single- and dual-output configurations, frame rates up to 120 Hz are available, providing the ability to design an image capture device that is up to 4X faster than traditional CCD image sensors. In addition, 9 µm square pixels with microlenses and anti-blooming structure provide high sensitivity and excellent specular reflection blooming control. Coupled with the additional benefits of electronic shutter, rapid clearing of horizontal lines for faster sub-region readout, and availability in color and monochrome configurations, this sensor is an ideal choice for challenging imaging applications.

Features

- Front Illuminated Interline Architecture
- Progressive Scan
- Electronic Shutter
- Integral RGB Color Filter Array (optional)
- On-Chip Dark Reference Pixels
- Low Dark Current
- Dual Output Shift Registers
- Antiblooming Protection
- Negligible Lag
- Low Smear

Applications

- Machine Vision

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Color	Package Type
KAI-0330-AAA-CP-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Mono	CDIP-20
KAI-0330-AAA-CP-BA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Mono	CDIP-20
KAI-0330-ABA-CB-AA-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Mono	CDIP-20
KAI-0330-ABA-CB-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Mono	CDIP-20
KAI-0330-ABA-CB-BA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Mono	CDIP-20
KAI-0330-CBA-CB-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Bayer Color	CDIP-20
KAI-0330-CBA-CB-BA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	120	1/2 inch	Electronic	9.0 x 9.0	Bayer Color	CDIP-20

