



## Product Overview

### KAI-0340: Interline Transfer CCD Image Sensor, VGA

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

#### Product Description

The KAI-0340 image sensor is a 640 (H) x 480 (V) resolution, 1/3" optical format, progressive scan interline CCD. This image sensor is offered in 2 versions: the KAI-0340-Dual supports 210 full resolution frame-per-second readout while the KAI-0340-Single supports 110 frame-per-second readout. Frame rates as high as 2,000 Hz (KAI-0340-Single) and 3,400 Hz (KAI-0340-Dual) can be achieved by combining the Fast Horizontal Line Dump with custom clocking modes. Designed for demanding imaging applications, the KAI-0340 provides electronic shuttering, peak QE (quantum efficiency) of 55%, extremely low noise and low dark current. These features give this sensor exceptional sensitivity and make it ideal for machine vision, scientific, surveillance, and other computer input applications.

#### Features

- High sensitivity
- High dynamic range
- Low noise architecture
- High frame rate
- Electronic shutter

#### Applications

- Intelligent Transportation Systems
- Machine Vision
- Scientific

## Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Color	Package Type
KAI-0340-AAA-CF-AA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CF-AA-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CF-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CF-AE-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CP-AA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CP-AA-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CP-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-AAA-CP-AE-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CB-A2-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CB-AA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CB-AA-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CB-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CB-AE-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CP-AA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CP-AA-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CP-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-ABB-CP-AE-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Mono	CDIP-22
KAI-0340-CBA-CB-AA-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Bayer Color	CDIP-22
KAI-0340-CBA-CB-AA-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Bayer Color	CDIP-22
KAI-0340-CBA-CB-AE-DUAL	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Bayer Color	CDIP-22
KAI-0340-CBA-CB-AE-SINGLE	Pb-free Halide free	Active	Interline CCD	VGA	210	1/3 inch	Electronic	7.4 x 7.4	Bayer Color	CDIP-22

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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