



## Product Overview

### KAI-1010: Interline Transfer CDD Image Sensor, 1 MP

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

#### Product Description

The KAI-1010 Image Sensor is a high-resolution monochrome charge coupled device (CCD) device whose non-interlaced architecture makes it ideally suited for video, electronic still and motion/still camera applications. The device is built using an advanced true two-phase, double-polysilicon, NMOS CCD technology. The p+n-pn- photodetector elements eliminate image lag and reduce image smear while providing antiblooming protection and electronic-exposure control. The total chip size is 10.15 (H) mm x 10.00 (V) mm.

#### Features

- Front Illuminated Interline Architecture
- Progressive Scan (Non-interlaced)
- Electronic Shutter
- On-Chip Dark Reference Pixels
- Low Dark Current
- High Sensitivity Output Structure
- Dual Output Shift Registers
- Antiblooming Protection
- Low Smear (0.01% with microlens)

#### 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-1010-ABA-CD-AE	Pb-free Halide free	Active	Interline CCD	1	30	1 inch	Electronic	9.0 x 9.0	Mono	CDIP-24
KAI-1010-ABA-CD-BA	Pb-free Halide free	Active	Interline CCD	1	30	1 inch	Electronic	9.0 x 9.0	Mono	CDIP-24
KAI-1010-ABA-CR-AE	Pb-free Halide free	Active	Interline CCD	1	30	1 inch	Electronic	9.0 x 9.0	Mono	CDIP-24
KAI-1010-ABA-CR-BA	Pb-free Halide free	Active	Interline CCD	1	30	1 inch	Electronic	9.0 x 9.0	Mono	CDIP-24

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

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