

Product Overview

KAI-11002: Interline Transfer CCD Image Sensor, 10.7 MP

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

The KAI-11002 Image Sensor is a high-performance 11-million pixel sensor designed for professional digital still camera applications. The 9.0 μm square pixels with microlenses provide high sensitivity and the large full well capacity results in high dynamic range. The two high-speed outputs and binning capabilities allow for 1-3 frames per second (fps) video rate for the progressively scanned images. The vertical overflow drain structure provides antiblooming protection and enables electronic shuttering for precise exposure control. Other features include low dark current, negligible lag and low smear.

Features

- High resolution
- High sensitivity
- High dynamic range
- Low noise architecture
- High frame rate
- Binning capability for higher frame rate
- Electronic shutter

Applications

- Digitization
- Intelligent Transportation Systems
- Machine Vision
- Mapping / Aerial
- Photography

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
KAI-11002-AAA-CP-AE	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-AAA-CP-B1	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-AAA-CR-AE	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CD-AE	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CD-B0	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CD-B1	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CD-B2	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CD-BX	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CP-AE	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CP-B1	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CP-B2	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-ABA-CR-AE	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Mono	CDIP-40
	Halide free										
KAI-11002-FBA-CD-AE	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Bayer Color	CDIP-40
	Halide free										
KAI-11002-FBA-CD-B1	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Bayer Color	CDIP-40
	Halide free										
KAI-11002-FBA-CD-B2	Pb-free	Active	Interline CCD	10.7	5	35 mm	Electronic	9.0 x 9.0	Analog	Bayer Color	CDIP-40
	Halide free										

For more information please contact your local sales support at www.onsemi.com.

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