



Product Overview

KAF-4320: Full Frame CCD, Image Sensor, 4.3 MP

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

Product Description

The KAF-4320 Image Sensor is a high performance monochrome area CCD (charge-coupled device) image sensor designed for a wide range of image sensing applications.

The sensor incorporates true two-phase CCD technology, simplifying the support circuits required to drive the sensor as well as reducing dark current without compromising charge capacity. The sensor also utilizes the TRUESENSE Transparent Gate Electrode to improve sensitivity compared to the use of a standard front side illuminated polysilicon electrode.

The full imaging array is read out of four outputs, each of which is driven by a low impedance two stage source follower that provides a high conversion gain. This combination enables low noise at a net readout rate of 12 MHz (3MHz per output).

Features

- True Two Phase Full Frame Architecture
- TRUESENSE Transparent Gate Electrode for high sensitivity

Applications

- Medical
- Scientific

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Color	Package Type
KAF-4320-AAA-JP-AE	Pb-free Halide free	Active	Full Frame CCD	4.3	2	645		24 x 24	Mono	CPGA-84
KAF-4320-AAA-JP-B1	Pb-free Halide free	Active	Full Frame CCD	4.3	2	645		24 x 24	Mono	CPGA-84
KAF-4320-AAA-JP-B2	Pb-free Halide free	Active	Full Frame CCD	4.3	2	645		24 x 24	Mono	CPGA-84

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

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