



Product Overview

KAF-1603: Full Frame CCD, Image Sensor, 1.6 MP

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

Product Description

The KAF-1603 Image Sensor is a high performance monochrome area CCD (charge-coupled device) image sensor with 1536H x 1024V photoactive pixels 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.

Optional microlenses focus the majority of the light through the transparent gate, increasing the optical response further.

Features

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

Applications

- Scientific

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Color	Package Type
KAF-1603-AAA-CP-AE	Pb-free Halide free	Active	Full Frame CCD	1.6	2.2	1 inch		9.0 x 9.0	Mono	CDIP-24
KAF-1603-AAA-CP-B2	Pb-free Halide free	Active	Full Frame CCD	1.6	2.2	1 inch		9.0 x 9.0	Mono	CDIP-24
KAF-1603-ABA-CD-AE	Pb-free Halide free	Active	Full Frame CCD	1.6	2.2	1 inch		9.0 x 9.0	Mono	CDIP-24
KAF-1603-ABA-CD-B2	Pb-free Halide free	Active	Full Frame CCD	1.6	2.2	1 inch		9.0 x 9.0	Mono	CDIP-24
KAF-1603-ABA-CP-AE	Pb-free Halide free	Active	Full Frame CCD	1.6	2.2	1 inch		9.0 x 9.0	Mono	CDIP-24
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For more information please contact your local sales support at www.onsemi.com

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