

Product Overview

KAI-16000: Interline Transfer CCD Image Sensor, 15.8 MP

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

The KAI-16000 is an interline transfer CCD offering 16 million pixels at up to 3 frames per second through 2 outputs. This image sensor is organized into an array of 4,872(H) x 3,248(V) with 7.4 micron square pixels and full 35mm optical format. As an interline transfer CCD, the KAI-16000 includes additional features such as progressive scan readout, electronic shutter, low noise, high dynamic range, and blooming suppression. These features make the KAI-16000 the perfect sensor for applications in Industrial, Aerial, Security, and Scientific markets.

Features

- 16 Million pixel resolution
- Electronic shutter
- 35mm Optical format
- Progressive scan readout
- High sensitivity
- Fast Frame rate
- >60 dB dynamic range

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-16000-AAA-JD-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AAA-JD-B1	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AAA-JD-B2	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AAA-JP-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AAA-JP-B1	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AAA-JP-B2	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AAA-JR-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JD-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JD-B1	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JD-B2	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JD-BX	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JP-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JP-B1	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JP-B2	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-AXA-JR-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Mono	CPGA-40
KAI-16000-FXA-JD-AE	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Bayer Color	CPGA-40
KAI-16000-FXA-JD-B1	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Bayer Color	CPGA-40
KAI-16000-FXA-JD-B2	Pb-free Halide free	Active	Interline CCD	15.8	3	35 mm	Electronic	7.4 x 7.4	Analog	Bayer Color	CPGA-40

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

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