

## 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  $\mu\text{m}$  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 ( $\mu\text{m}$ ) | Output Interface | Color       | Package Type |
|---------------------|------------------------|--------|---------------|------------|------------------|----------------|--------------|------------------------------|------------------|-------------|--------------|
| KAI-11002-AAA-CR-AE | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-ABA-CD-AE | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-ABA-CD-B0 | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-ABA-CD-B1 | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-ABA-CD-B2 | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-ABA-CD-BX | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-ABA-CR-AE | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Mono        | CDIP-40      |
| KAI-11002-CAA-CD-AE | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Bayer Color | CDIP-40      |
| KAI-11002-CBA-CD-AE | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Bayer Color | CDIP-40      |
| KAI-11002-FBA-CD-AE | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Bayer Color | CDIP-40      |
| KAI-11002-FBA-CD-B1 | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Bayer Color | CDIP-40      |
| KAI-11002-FBA-CD-B2 | Pb-free<br>Halide free | Active | Interline CCD | 10.7       | 5                | 35 mm          | Electronic   | 9.0 x 9.0                    | Analog           | Bayer Color | CDIP-40      |

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