

Product Overview

KAF-50100: Full Frame CCD Image Sensor, 50.1 MP

For complete documentation, see the data sheet.

EOL has been announced for this device

The KAF-50100 Image Sensor is a high performance, 50-megapixel CCD. Based on an advanced 6.0 micron Full Frame CCD Platform, the sensor features ultra-high resolution, broad dynamic range, and a four-output architecture. A lateral overflow drain suppresses image blooming, while an integrated Pulse Flush Gate clears residual charge on the sensor with a single electrical pulse. A Fast Dump Gate can be used to selectively remove a line of charge to facilitate partial image readout. The sensor also utilizes a Transparent Gate Electrode to improve sensitivity compared to the use of a standard front side illuminated polysilicon electrode.

The sensor shares a common pin-out and electrical configuration with the KAF-40000 Image Sensor, allowing a single camera design to support both members of this sensor family.

Features

- Transparent Gate Electrode for high sensitivity
- Ultra-high resolution
- Broad dynamic range
- Low noise architecture
- Large active imaging area

Applications

- Digitization
- Mapping / Aerial
- Photography
- Scientific
- Surveillance

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

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