

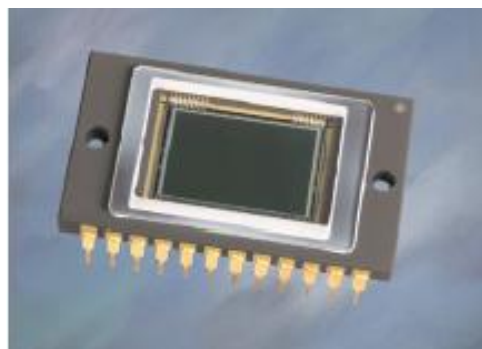
PRODUCT SUMMARY

KODAK KAF-3200ME IMAGE SENSOR

2184 (H) X 1472 (V) FULL FRAME CCD IMAGE SENSOR

DESCRIPTION

The KAF-3200ME is a high performance monochrome area CCD (charge-coupled device) image sensor with 2184H x 1472V photoactive pixels designed for a wide range of image sensing applications in the 300 nm to 1000 nm wavelength band. Typical applications include military, scientific, and industrial imaging. A 75dB dynamic range is possible operating at room temperature.



FEATURES

- 3.2 Million Pixel Area CCD
- 2184 H x 1472V Pixels
- Transparent Gate True Two Phase Technology
- Microlens option
- Enhanced Spectral Response
- 6.8 x 6.8 μ m Pixels
- 14.85mm H x 10.26mm V Photosensitive Area
- 100% Fill Factor
- High Output Sensitivity (20 μ V/e⁻)
- 78 dB Dynamic Range
- Low Dark Current (<7pA/cm² @ 25 $^{\circ}$ C)

Parameter	Typical Value
Architecture	Full Frame CCD
Pixel Count	2184 (H) x 1510 (V)
Pixel Size	6.8 μ m (H) x 6.8 μ m (V)
Imager Size	14.85 mm (H) x 10.26 mm (V)
Optical Fill-Factor	100%
Saturation Signal	55,000 electrons
Output Sensitivity	12 μ V/electron
Readout Noise (1 MHz)	7 electrons rms
Dark Current (25 $^{\circ}$ C, Accumulation Mode)	<7 pA/cm ²
Dark Current Doubling Rate	6 $^{\circ}$ C
Dynamic Range (Sat Sig/Dark Noise)	78 dB
Quantum Efficiency with microlenses	0.55, 0.70, 0.80
Maximum Data Rate	15 MHz
Transfer Efficiency (10 MHz, to -40 $^{\circ}$ C)	15 MHz
Package	CERDIP Package (sidebrazed)
Cover Glass	Clear or AR coated, 2 sides

APPLICATION

- Scientific

ORDERING INFORMATION

Catalog Number	Product Name	Description	Marking Code
4H0243	KAF- 3200-ABA-CD-B2	Monochrome, Telecentric Microlens, CERDIP Package (sidebrazed), Clear Cover Glass with AR coating (both sides), Grade 2	KAF-3200-ABA (Serial Number)
4H0188	KAF- 3200-ABA-CD-AE	Monochrome, Telecentric Microlens, CERDIP Package (sidebrazed), Clear Cover Glass with AR coating (both sides), Engineering Sample	
4H0106	KAF- 3200-ABA-CP-B2	Monochrome, Telecentric Microlens, CERDIP Package (sidebrazed), Taped Clear Cover Glass, no coatings, Grade 2	
4H0107	KAF- 3200-ABA-CP-AE	Monochrome, Telecentric Microlens, CERDIP Package (sidebrazed), Taped Clear Cover Glass, no coatings, Engineering Sample	
4H0088	KEK-4H0088-KAF-3200-12-5	Evaluation Board (Complete Kit)	N/A

Please see ISS Application Note "Product Naming Convention" (MTD/PS-0892) for a full description of naming convention used for KODAK image sensors.

For all reference documentation, please visit our Web Site at www.kodak.com/go/imagers.

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