

PK9210K 2.0MP Product Brief

The PK9210K has excellent noise performance for low light condition and high dynamic range support by 2-exp line based HDR mode up to 120dB

The PK9210K is a high quality low noise 2Mega CMOS image sensor, incorporates a 1960H x 1120V pixel array. The PK9210K has excellent noise performance for low light condition and high dynamic range support using by DCG(Dual Conversion Gain) and multi- exposure method up to 120dB.

The low noise performance enables front/rear view camera and surround-view camera, home appliances and security applications with excellent image quality.

Applications

- Front/Rear View Camera
- 360° Surround View Monitoring System (SVM)
- Security
- Home appliances

Product Features

- 120dB HDR with 2-Lane MIPI / DVP Combo output
- RGB Bayer(only combined IMG) output format
- Low fixed pattern noise of 2.8um BSI Pixel
- Low readout noise
- Programmable frame size, window size, and exposure
- External synchronization support (Genlock)
- One-time programmable memory (OTP)
- Active Dummy Array for offset correction
- Spread Spectrum Clock Generation (SSCG)

Technical Specifications

Parameter	Typical value
Pixel size	2.8 um x 2.8 um
Effective pixel array	1960(H) x 1120(V)
Effective image area	5.4880 mm x 3.1360 mm
Optical format	1/2.92 inch
CRA	23.7 °
AR coating glass	TBD nm
Input clock frequency	27 MHz
Output interface	2-Lane MIPI / DVP Combo
Max. frame rate	HDR / SDR 30 fps only
Dark signal	TBD e/sec
Sensitivity	TBD V/Lux-s
Power supply	HVDD : 1.8 ~ 2.8V
	AVDD : 2.8 V
	DVDD : 1.2 V
Power consumption	TBD
Operating temp.	-40 ~ 105 °C (Ambient)
Max. dynamic range	120 dB
SNR	TBD dB
Package type	NeoPac, CLGA
Package size	TBD

Functional Block Diagram

