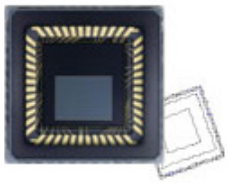
CP7208



CP7208 is single-chip video/image camera sensor that is designed to fit on automotive rear view system, which allow video capture in extremely diverse lighting conditions. CP7208 is set up with a 720x480 image array, outputs up to 60 frames (720x480) per second, and supports various forms of digital output format and NTSC/PAL composite output. CP7208 has various camera control functions, and can be programmed through a two-wire serial interface.

Features

- System-on-a-chip(SOC)-completely integrated camera system
- Integrated microcontroller for flexibility
- CVBS, 8-,10-bit parallel digital output
- Lens Shading Compensation, Dead Pixel Compensation, Edge Enhancement
- Color Correction, Gamma Correction
- Hue/Saturation, Contrast/Brightness Control
- Parking Guide, overlay up to 2 plane
- Automatic features : Auto Exposure, Auto White Balance, Anti-Flicker, Black Level Calibration
- NTSC/PAL encoder with 10bit DAC
- 2 channel(Master, Slave) Two-wire serial interface
- Integrated temperature sensor

Application

- Automotive
- Machine Visions
- Security surveillance cameras

Analog / Digital, 1/4" , D1

PARAMETER		TYPICAL VALUE
Optical Dimension	Optical Format	1/4 inch
	Pixel Size	5 um X 5.6 um
	Effective Resolution	728(H) X 488(V)
	Effective Pixel Area	3.640 mm(H) X 2.733 mm(V)
Digital Output		10bit, 8bit RGB Bayer, YCbCr422, RGB565/555, CCIR656
Analog Output		CVBS(NTSC, PAL) @ 27MHz
Input Clock Frequency		27MHz
Maximum Frame Rate		720x480, 60fps @ (YCbCr) 720x480, 60fps @ (Bayer)
Shutter Type		Electronic Rolling Shutter
Sensitivity		8.5 V / lux-sec (16 V @550nm)
Dynamic Range		75 dB
SNR		46 dB
Max. Programmable Gain		analog (x72), digital (x31.5)
Supply Voltage	Pixel	3.3V ± 10%
	Analog	3.3V ± 10%
	I/O	3.3V ± 10%
Power Consumption	Active	290 mW
	Standby	[T.B.D] uW
Operating Temperature		-40°C ~ 85°C
Package Type		PLCC, CLCC