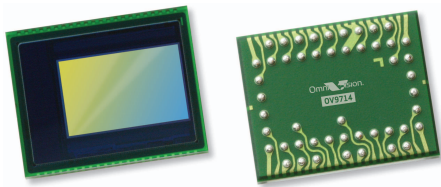


KLT-K3MF-OV9714 V1.1**OmniVision OV9714 MIPI Interfaz Foco fijo 1MP Módulo de cámara**

Módulo de cámara No.	KLT-K3MF-OV9714 V1.1
Sensor de imagen	OV9714
EFL	3.29 mm
F.NO	2.8
Pixel	1296 x 812
Ángulo de visión	68.7°
Tipo de lente	1/4 pulgada
Dimensiones de la lente	8.00 x 8.00 x 4.92 mm
Tamaño del módulo	66.00 x 11.00 mm
Tipo de módulo	Foco fijo
Interfaz	MIPI

N. ° de pieza del conector de acoplamiento. AXE540124

Conector de acoplamiento en la placa principal. Se vende por separado.



OV9714 720p product brief



Native High Definition OV9714 CameraChip™ With Improved Dynamic Range and 720p/60 Video



available in
a lead-free
package

The 1/4-inch OV9714 is a native high-definition (HD) image sensor capable of capturing high quality 720p video at 60 frames per second (fps) or cropped VGA at 120 fps. Built on an enhanced OmniPixel3-HS™ pixel, the OV9714 combines excellent low-light performance of 3300 mV/lux-sec and high dynamic range (HDR) with fast frame rates, making it ideally suited for entertainment, notebook, telepresence and high-end security applications.

The sensor's new and improved OmniPixel3-HS pixel architecture offers better low-light sensitivity, signal to noise ratio (SNR) performance and a 5 dB improvement in dynamic range compared to the previous generation. The OV9714's 12-bit RGB RAW output capability

provides optimized HDR, while the embedded sequential line- or frame-based HDR features allow higher dynamic range for high-contrast scenes often encountered indoors.

The OV9714's fast frame rate minimizes latency delay, resulting in quick response time for interactive gaming and real-time communication applications. Additionally, the sensor offers frame synchronization functionality for use in 3D (stereo) camera systems.

The sensor comes with a standard 2-lane MIPI interface and fits into an 8 x 6 x 4.5 mm module size.

Find out more at www.ovt.com.

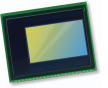
Applications

- PC Multimedia
- Entertainment
- Tablets
- Cellular and Mobile Phones
- Security
- Games

Product Features

- automatic black level calibration (ABLC)
- support 2x2 binning
- programmable controls for frame rate, mirror and flip, cropping and windowing
- standard serial SCCB interface
- image quality controls: lens correction and defective pixel canceling
- two-lane MIPI/LVDS serial output interface
- supports output formats: 8/10/12-bit RAW RGB (MIPI/LVDS)
- embedded 256 bits one-time programmable (OTP) memory for part identification, etc.
- supports horizontal and vertical sub-sampling
- on-chip phase lock loop (PLL)
- supports images sizes: 1280x800, 640x400, 320x200, and 160x100
- programmable I/O drive capability
- fast mode switching
- support alternate frame HDR/line HDR

OV9714



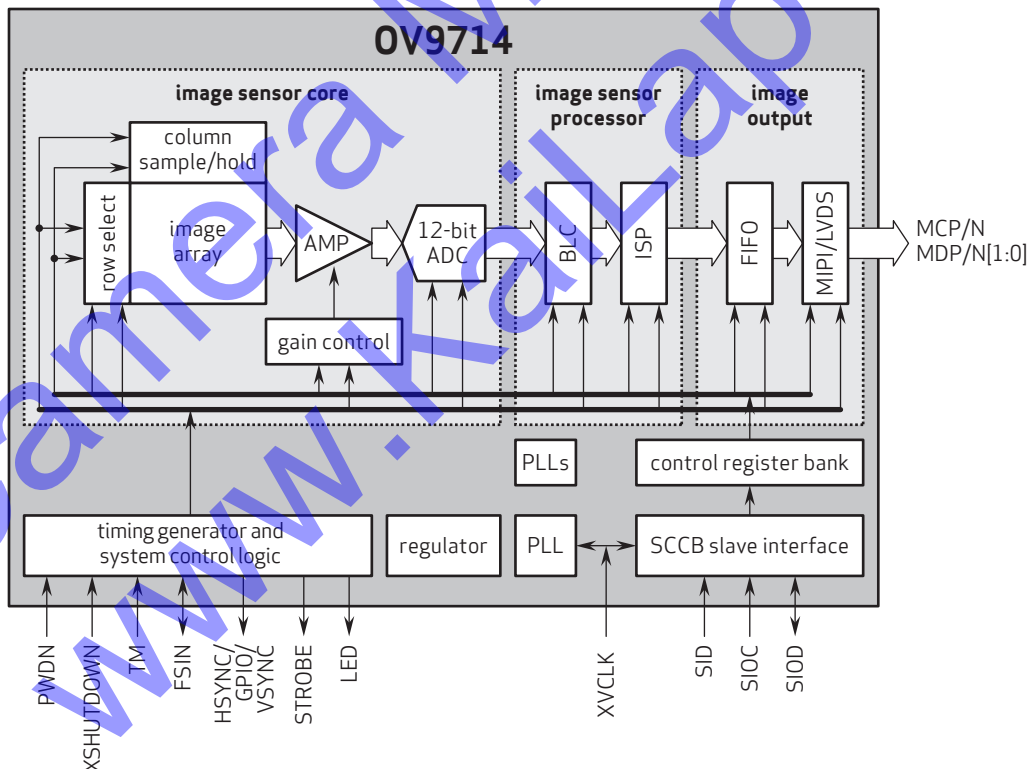
Ordering Information

- OV9714-A49A (color, lead-free, 49-pin CSP3)

Product Specifications

- active array size: 1296 x 812
- max S/N ratio: 39 dB
- power supply:
 - core: 1.5 VDC ±5%
 - analog: 2.6 - 3.0V
 - I/O: 1.7 - 3.0V
- dynamic range: 73 dB @ 8x gain
- power requirements:
 - active: 95 mA
 - standby: 30 µA
 - xshutdown: 5 µA
- maximum image transfer rate:
 - 1280x800: 60 fps
 - 640x400: 120 fps
 - 320x200: 240 fps
- temperature range:
 - operating: -30°C to 85°C junction temperature
 - stable image: 0°C to 50°C junction temperature
- sensitivity: 3300 mV/lux-sec
- scan mode: progressive
- output formats: 12-bit RGB RAW
- maximum exposure interval: 800 x t_{row}
- lens size: 1/4"
- pixel size: 3.0 µm x 3.0 µm
- lens chief ray angle: 28.7° non-linear
- dark current: 2.3 mV/s @ 50°C junction temperature
- input clock frequency: 6 - 27 MHz
- image area: 3936 µm x 2460 µm
- package dimensions: 6110 µm x 4930 µm

Functional Block Diagram



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