

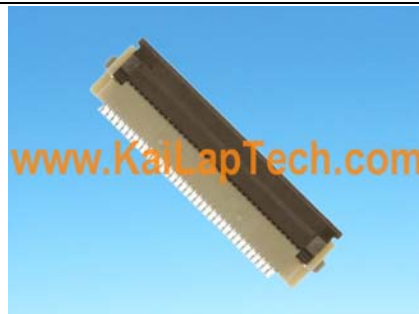
## KLT-KX1-OV2715 V1.0

**OmniVision OV2715 MIPI y DVP paralelo Interfaz Foco fijo 2MP M12  
Módulo de cámara**

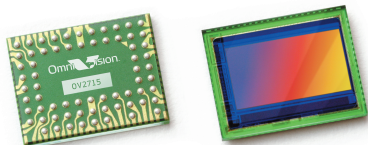


<b>Módulo de cámara No.</b>	<b>KLT-KX1-OV2715 V1.0</b>
<b>Sensor de imagen</b>	OV2715
<b>EFL</b>	3.0 mm
<b>F.NO</b>	2.4
<b>Pixel</b>	1920 x 1080
<b>Ángulo de visión</b>	92°
<b>Tipo de lente</b>	1/2.7 pulgada
<b>Dimensiones de la lente</b>	22.30 x 13.20 x 16.41 mm
<b>Tamaño del módulo</b>	42.61 x 22.30 mm
<b>Tipo de módulo</b>	Foco fijo
<b>Interfaz</b>	MIPI y DVP paralelo
<b>Modelo de lente IMT</b>	IMT-4B12B002-6

**N. ° de pieza del conector de acoplamiento. FH12-30S-0.5SH**



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



# OV2715-1E full HD (1080p) product brief



## OmniVision's True 1080p High Definition (HD) Video Image Sensor



available in  
a lead-free  
package

The OV2715-1E is a native 1080p high definition (HD) CMOS image sensor designed specifically to deliver HD video to security/surveillance applications. Built with OmniVision's proprietary OmniPixel3-HS™ technology, the 1/2.7-inch OV2715-1E addresses the low-light performance requirements of both IP cameras and HDcctv.

The OV2715-1E is one of the first no-compromise full 1080p HD sensors available on the market with a display resolution of 1920 x 1080 pixels while operating at 30 frames per second. The sensor delivers low-light sensitivity of 3700 mV/lux-sec and a peak dynamic range of 69 dB. This enables cameras to operate in virtually every lighting condition from bright daylight to nearly complete darkness, a critical capability for security and surveillance cameras.

The sensor provides full frame, sub-sampled or windowed 10-bit images in RAW RGB format via the digital video port with complete user control over image quality. It incorporates advanced image processing functions, including exposure control, gain control, white balance, lens correction and defective pixel correction, and is fully programmable through the serial camera control bus (SCCB) interface.

Offering a zero degree chief ray angle, the OV2715-1E allows for the clearest possible picture and best-in-class image quality. The OV2715-1E is capable of operating within a temperature range of -30°C to +85°C, enabling its implementation in indoor and outdoor security and surveillance applications.

Find out more at [www.ovt.com](http://www.ovt.com).



## Applications

- Security and Surveillance Cameras

## Product Features

- support for image sizes:
  - 1080p @ 30 fps
  - cropped 720p @ 60 fps
  - VGA @ 120 fps
- programmable controls: gain, exposure, frame rate, image size, horizontal mirror, vertical flip, cropping, windowing, and panning
- automatic image control functions:
  - automatic exposure (AEC)
  - automatic gain control (AGC)
  - automatic white balance (AWB)
  - automatic black level calibration (ABLC)
- serial camera control bus (SCCB)
- lens correction (LENC)
- defect pixel correction (DPC)
- support for digital video port (DVP) parallel output interface
- integrated auto focus filter
- support for 10-bit RAW RGB output format
- support for black sun cancellation
- embedded one-time programmable (OTP) memory
- on-chip phase lock loop (PLL)
- built-in 1.5 V regulator for core

# OV2715-1E



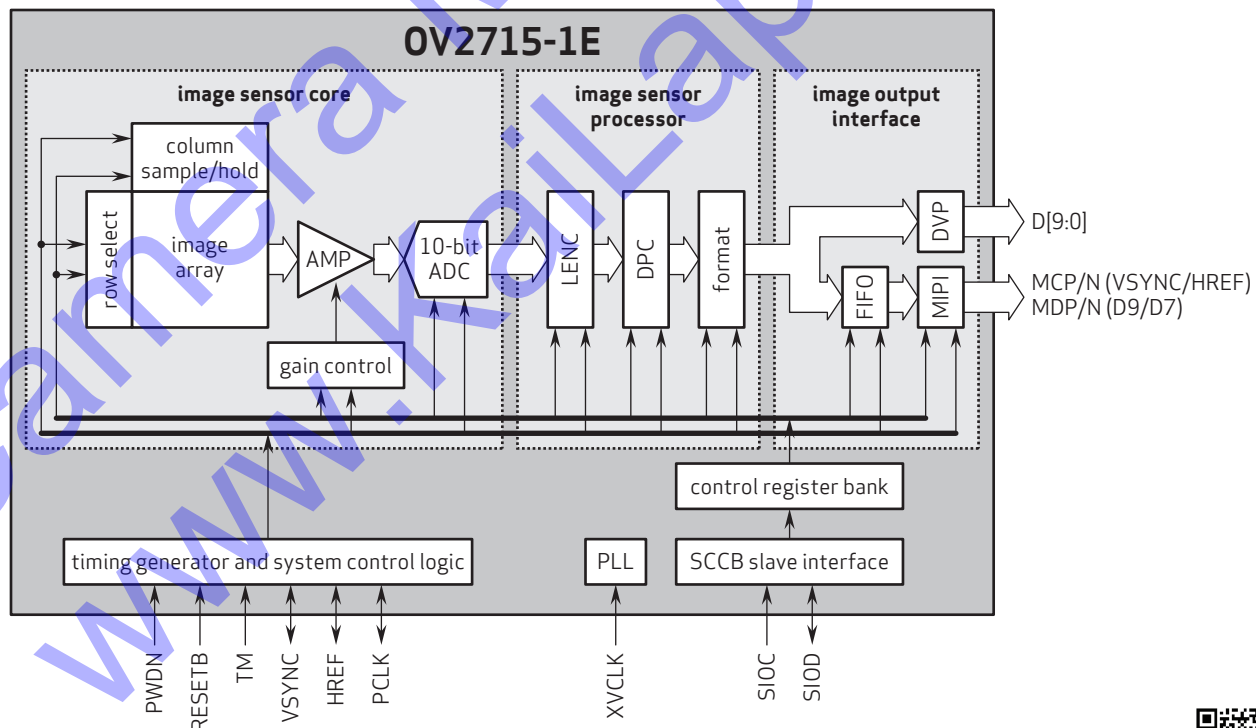
## Ordering Information

- OV2715-1E-A68A  
(color, lead-free, 68-pin CSP3)

## Product Specifications

- active array size: 1920 x 1080
- power supply:
  - analog: 3.0 - 3.6V (3.3V typical)
  - core: 1.425 - 1.575V (1.5V typical)
  - I/O: 1.7 - 3.6V (1.8V typical)
- power requirements:
  - active: 350 mW
  - power down: 70  $\mu$ A
- temperature range:
  - operating: -30°C to +85°C junction temperature
  - stable image: 0°C to +65°C junction temperature
- output interfaces: 10-bit parallel / one-lane MIPI
- output formats: 10-bit RAW RGB data
- lens size: 1/2.7"
- lens chief ray angle: 0°
- input clock frequency: 6 - 27 MHz
- scan mode: progressive
- maximum image transfer rate:
  - 1080p: 30 fps
  - cropped 720p: 60 fps
  - VGA: 120 fps
  - QVGA: 240 fps
- sensitivity: 3700 mV/lux-sec
- shutter: rolling shutter
- max S/N ratio: 40 dB
- dynamic range: 69 dB @ 8x gain
- maximum exposure interval: 1096 tline
- pixel size: 3  $\mu$ m x 3  $\mu$ m
- dark current: 20 mV/s @ 60°C junction temperature
- image area: 5856  $\mu$ m x 3276  $\mu$ m
- package dimensions: 7465  $\mu$ m x 5865  $\mu$ m

## Functional Block Diagram



4275 Burton Drive  
Santa Clara, CA 95054  
USA

Tel: +1 408 567 3000  
Fax: +1 408 567 3001  
www.ovt.com

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