

KLT-M4K-OV7676 V1.0 NIR

**OmniVision OV7676 DVP paralelo Interfaz Foco fijo 0.3MP VGA Módulo de cámara
No IR Filter Lens**

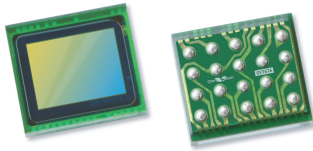


Módulo de cámara No.	KLT-M4K-OV7676 V1.0 NIR
Sensor de imagen	OV7676
EFL	2.1 mm
F.NO	2.8
Pixel	640 x 480 (VGA)
Ángulo de visión	59.2°
Tipo de lente	1/7.5 pulgada, No IR Filter Lens
Dimensiones de la lente	6.00 x 6.00 x 3.45 mm
Tamaño del módulo	20.10 x 12.50 mm
Tipo de módulo	Foco fijo
Interfaz	DVP paralelo
Modelo de lente IMT	IMT-5A5X002-N

N. ° de pieza del conector de acoplamiento. FH12-24S-0.5SH



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



OV7676 VGA product brief



Cost-Effective VGA Sensor Delivers Best-In-Class Pixel Performance to Wide Range of Consumer Applications



available in
a lead-free
package

OmniVision's high performance OV7676 is a cost-effective 1/7.5-inch system-on-a-chip (SOC) VGA sensor that brings best-in-class pixel performance to a wide range of applications, including mobile phones, tablets, wearables, notebooks, and IP network cameras.

Utilizing OmniVision's 3-micron OmniPixel3-HS™ technology, the OV7676 achieves best-in-class low-light sensitivity, signal-to-noise ratio, full-well capacity (FWC), quantum efficiency and low-power consumption. The OV7676 supports serial peripheral interface (SPI) and digital video port (DVP) interface customization for both smartphone and feature phone platforms.

When used as a front-facing camera solution in smartphones, tablets and notebooks, the OV7676 also supports video-in-video functionality, allowing users to record and stitch together video being recorded simultaneously by the front- and rear-facing cameras.

The OV7676 fits into a 2.73 x 2.47 mm chip-scale package (CSP).

Find out more at www.ovt.com.



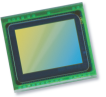
Applications

- Mobile Phones
- Toys
- PC Multimedia
- Digital Still Cameras

Product Features

- support for image sizes: VGA (640x480), QVGA (320x240) and CIF (352x288)
- support for horizontal and vertical sub-sampling
- support for output formats: RAW RGB and YUV output with DVP and SPI port
- automatic image control functions:
 - automatic exposure control (AEC)
 - automatic white balance (AWB)
 - automatic black level calibration (ABLC)
- on-chip phase lock loop (PLL)
- image quality controls: defect pixel correction and lens shading correction
- built-in 1.8V regulator for digital block
- support for black sun cancellation
- capable of maintaining register values at software power down
- standard serial SCCB interface
- programmable controls for frame rate, mirror and flip, AEC/AGC, and windowing
- parallel I/O tri-state configurability and programmable polarity

OV7676



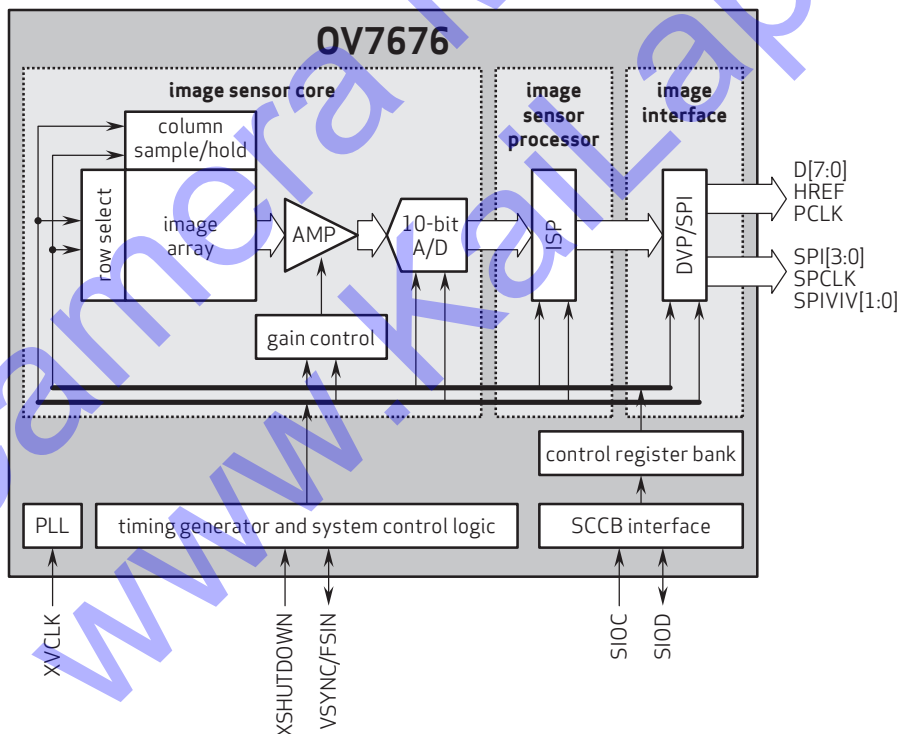
Ordering Information

- OV07676-H20A (color, lead-free, 20-pin CSP5)

Product Specifications

- active array size: 640 x 480
- maximum image transfer rate:
 - VGA: 30 fps
 - QVGA: 60 fps
 - CIF: 30 fps
- power supply:
 - analog: 2.8V ±5%
 - core: 1.8VDC ±5% (internal regulator)
 - I/O: 2.8V, 1.8V
- sensitivity: 1900 mV/lux-sec
- power requirements:
 - I_{DD-A}: 15 mA
 - I_{DD-IO}: 1.7 mA
 - XSHUTDOWN: <15 μA
- shutter: rolling shutter
- max S/N ratio: 38 dB
- temperature range:
 - operating: -30°C to +70°C junction temperature
 - stable image: 0°C to +50°C junction temperature
- dynamic range: 70.4 dB @ 8x gain
- output formats: YUV422, RAW RGB
- maximum exposure interval: 506 x t_{ROW}
- lens size: 1/7.5"
- pixel size: 3 μm x 3 μm
- lens chief ray angle: 26.6°
- dark current: 6 mV/sec @ 60°C junction temperature
- input clock frequency: 6 - 27 MHz
- image area: 1962 μm x 1482 μm
- scan mode: progressive
- package dimensions:
 - CSP5: 2734 μm x 2474 μm

Functional Block Diagram



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