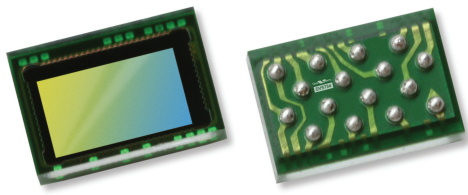


**KLT-USB1A-FF-OV9734 V1.0****OmniVision OV9734 USB 接口 固定焦距 100万像素 摄像头模组**

摄像头模组型号	<b>KLT-USB1A-FF-OV9734 V1.0</b>
图像感光芯片	OV9734
焦距	1.25 mm
光圈	4.0
像素	1280 x 720
可视角度	120°
镜头类型	1/9 英寸
镜头尺寸	2.10 mm 直径
模组尺寸	3.3 mm 直径 x 19.10 mm
模组类型	固定焦距
接口	USB

**配对连接器型号: KLT-USB1A-Cable**

主板上的对应连接器。分开售卖。



# OV9734 720p HD product brief



## OmniVision's Smallest 720p High Definition Sensor for Next-Generation Notebooks and Mobile Devices



available in a lead-free package

The OV9734 is an ultra-compact and power efficient CameraChip™ image sensor designed for slim notebooks, tablets, handsets, and other devices that require a thin bezel. Built on OmniVision's PureCel™ technology, the OV9734 CameraChip™ delivers premium quality images and video, while consuming significantly less power than previous generation image sensors.

OmniVision's 1/9-inch OV9734 is capable of capturing crisp 720p HD video at 30 frames per second (fps) or VGA video at 45 fps, while consuming approximately

25 percent less power than the previous generation 720p sensor. Additionally, the OV9734 meets the video quality specifications for popular video conferencing platforms.

To fit ultra-thin bezel devices, the OV9734 comes in a compact package that can meet 2.5 mm z-height and is 47 percent smaller in y-dimension compared to the previous generation 720p sensor.

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



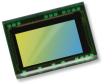
## Applications

- Smart phones
- PC multimedia
- Tablets
- Digital Still Cameras
- Toys

## Product Features

- support for image sizes: full size (1280x720), VGA (640x480), 2x2 RGB binning (640x360) and 2x2 BW binning (640x360)
- support for horizontal and vertical sub-sampling
- automatic black level calibration (ABLC)
- defect pixel correction (DPC)
- support for black sun cancellation
- standard SCCB interface
- GPIO tri-state configurability and programmable polarity
- support for output formats: RAW output with MIPI
- on-chip phase lock loop (PLL)
- capable of maintaining register values at software power down
- programmable controls for frame rate, mirror and flip, gain/exposure, and windowing

# OV9734



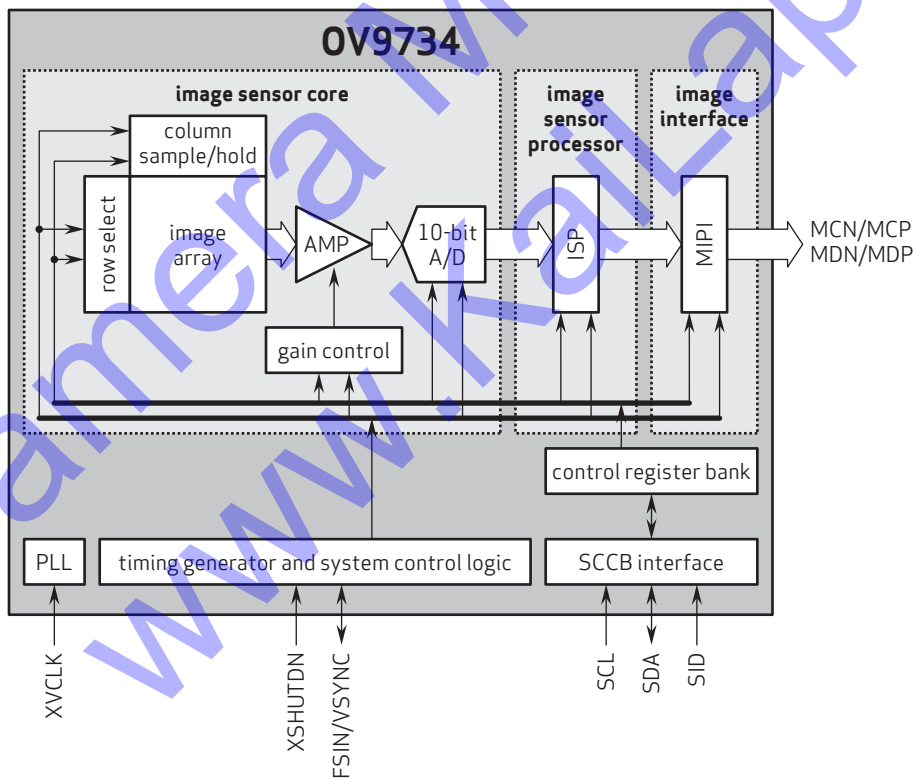
## Ordering Information

- OV9734-H16A (color, lead-free, 16-pin CSP5)

## Product Specifications

- active array size: 1280 x 720
- input clock frequency: 6 - 27 MHz
- max S/N ratio: TBD
- dynamic range: TBD
- maximum image transfer rate: 30 fps
- sensitivity: TBD
- scan mode: progressive
- maximum exposure interval:  $798 \times t_{row}$
- pixel size:  $1.4 \mu\text{m} \times 1.4 \mu\text{m}$
- dark current: TBD
- image area:  $1819.58 \mu\text{m} \times 1033.34 \mu\text{m}$
- package dimensions:  $2532 \mu\text{m} \times 1722 \mu\text{m}$
- power supply:
  - core: 1.2VDC  $\pm 5\%$
  - analog: 2.6 - 3.0V (2.8V normal)
  - I/O: 1.8V
- power requirements:
  - I<sub>DD-A</sub>: TBD
  - I<sub>DD-IO</sub>: TBD
  - I<sub>DD-P</sub>: TBD
  - XSHUTDOWN: TBD
- temperature range:
  - operating: -30°C to +85°C junction temperature
  - stable image: 0°C to +50°C junction temperature
- output formats: RAW RGB
- lens size: 1/9"
- lens chief ray angle: 32.1°

## Functional Block Diagram



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