CMOS CAMERA MODULES

KLT

KLT-USB1A-FF-OV9734 V1.0

OmniVision OV9734 USB Interfaccia Messa a fuoco fissa 1MP Modulo telecamera

www.KaiLapTech.com

Modulo telecamera n.	KLT-USB1A-FF-OV9734 V1.0
Sensore d'immagine	OV9734
EFL	1.25 mm
F.NO	4.0
Pixel	1280 x 720
Vista ad angolo	120°
Tipo di lente	1/9 pollice
Dimensioni dell'obiettivo	2.10 mm Diameter
Dimensione del modulo	3.3 mm Diameter x 19.10 mm
Tipo di modulo	Messa a fuoco fissa
Interfaccia	USB

Cavo USB di accoppiamento Codice. KLT-USB1A-Cable

www.KaiLapTech.com

Cavo di prolunga USB. Venduto separatamente.
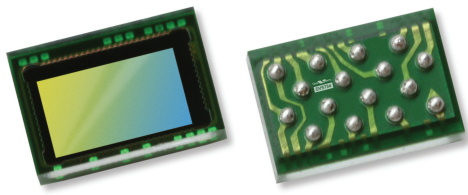
OV9734 720p HD product brief

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

lead free

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.

OmniV**ision.**

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 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
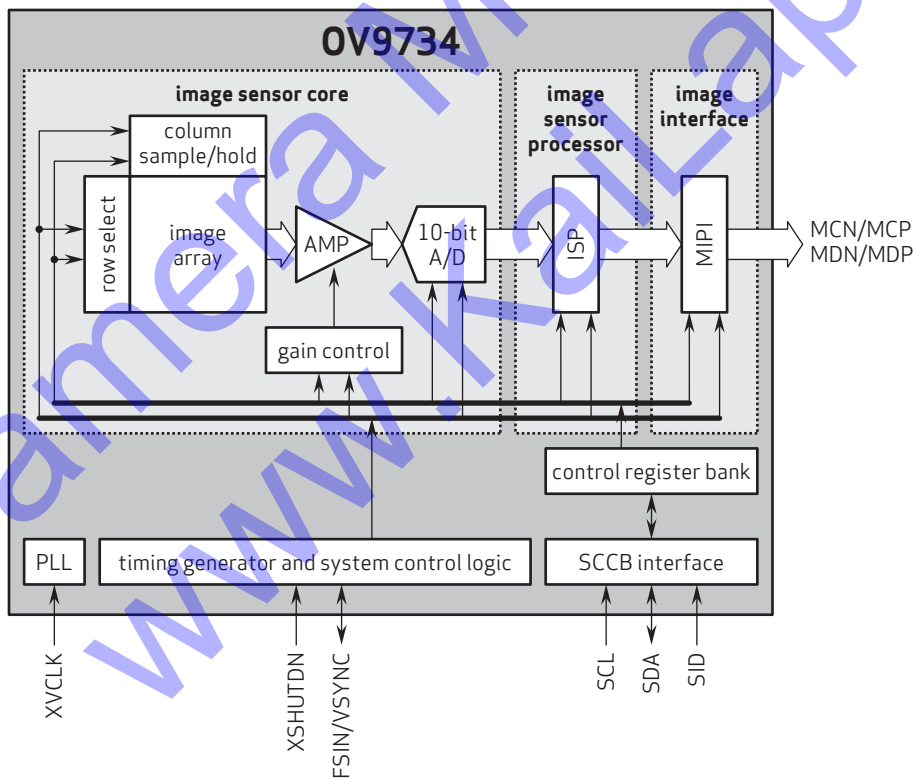- support for horizontal and vertical sub-sampling
- automatic black level calibration (ABLC)
- defect pixel correction (DPC)
- support for black sun cancellation
- standard SCCB interface
- GPIO tri-state configurability and programmable polarity
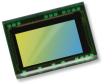
OV9734

Ordering Information

- **OV09734-H16A**
  (color, lead-free, 16-pin CSP5)

Product Specifications

- **active array size:** 1280 x 720
- **power supply:**
  - **core:** 1.2VDC ±5%
  - **analog:** 2.6 - 3.0V (2.8V normal)
  - **I/O:** 1.8V
- **power requirements:**
  - I_{DD-A}: TBD
  - I_{DD-IO}: TBD
  - I_{DD-D}: 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°
- **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 x t_{ROW}
- **pixel size:** 1.4 µm x 1.4 µm
- **dark current:** TBD
- **image area:** 1819.58 µm x 1033.34 µm
- **package dimensions:** 2532 µm x 1722 µm

Functional Block Diagram

OmniVision®