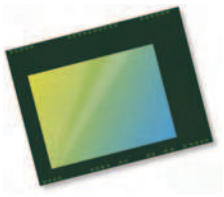
Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



OV5695 5-megapixel product brief

High Quality 1/4-inch 5-Megapixel Selfies for Next-Generation Smartphones and Tablets

lead free

available in a lead-free package

OmniVision's new 1/4-inch OV5695 is a high performance and cost-effective 5-megapixel OmniBSI+™ sensor designed to be a cost-competitive camera solution for both front- and rear-facing camera applications in smartphones and tablets. The OV5695 features an improved design that offers superior image and video quality in a more compact, power-efficient package.

The OV5695 utilizes 1.4-micron OmniBSI+ pixel architecture to capture full resolution video in a native 4:3 aspect ratio at 30 fps or 1080p video at 60 fps with support for interleave row high dynamic range (iHDR).

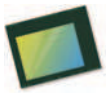
The sensor's exceptional low-light sensitivity enhances image and video quality when recording in low-light conditions, and reduces user dependence on the device's front-facing flash functionality.

The OV5695 fits into an 8.5 x 8.5 mm module with a z-height of approximately 4.4 mm.

Find out more at www.ovt.com.

OmniVision

OV5695



Applications

- Smartphones and Feature Phones
- PC Multimedia
- Tablets
- Wearables

Product Features

- 1.4 µm x 1.4 µm pixel
- 5MP at 30 fps
- programmable controls for:
  - frame rate
  - mirror and flip
  - cropping
  - windowing
- supports images sizes:
  - 5MP (2592x1944)
  - quad HD (2560x1440)
  - 1080p (1920x1080)
  - 720p (1280x720)
  - VGA (640 x 480), and more
- 16 bytes of embedded one-time programmable (OTP) memory for customer use
- ultra low power mode (ULPM)
- support for output formats: 10-bit RGB RAW
- interleave row HDR output
- two-wire serial bus control (SCCB)
- MIPI serial output interface (1- or 2-lane)
- 2x binning support
- image quality control:
  - defect pixel correction
  - automatic black level calibration

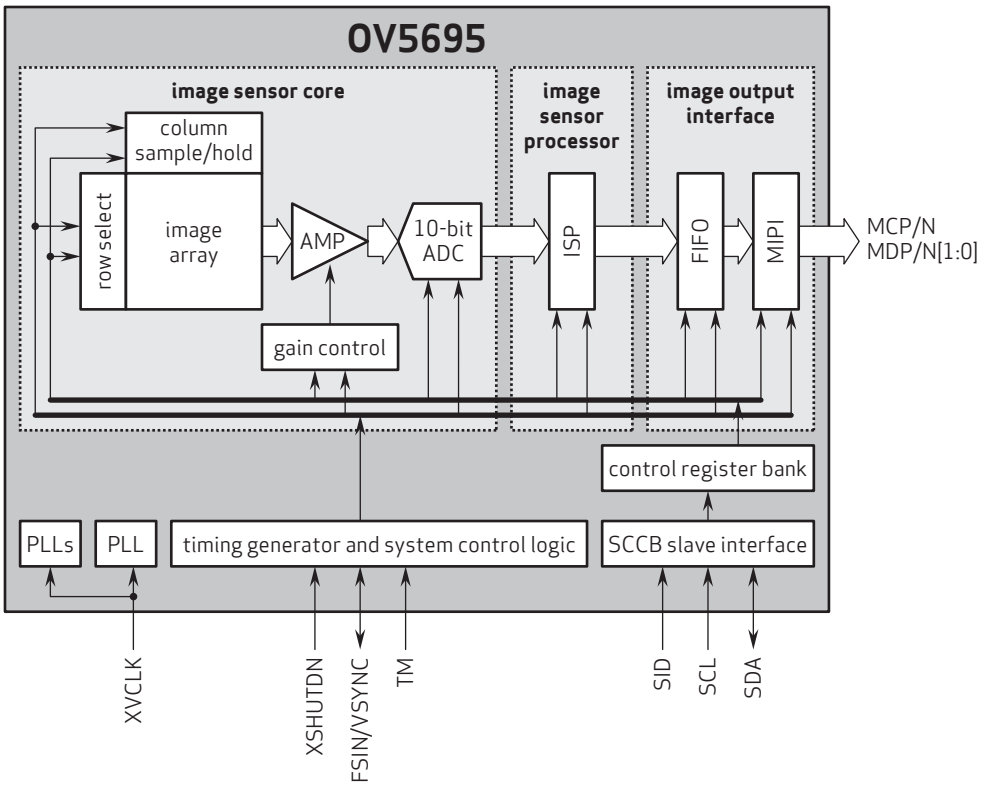
Ordering Information

- **OV05695-GA4A-1B**
  (color, chip probing, 200 µm backgrinding, rev 1B, reconstructed wafer)

Product Specifications

- **active array size:** 2592 x 1944
- **power supply:**
  - **core:** 1.14 - 1.26V (1.2V nominal)
  - **analog:** 2.7 - 3.0V (2.8V nominal)
  - **I/O:** 1.7 - 1.9V (1.8V nominal)
- **power requirements:**
  - **active:** 155 mW
  - **standby:** 61 µW
  - **XSHUTDN:** 36 µW
- **temperature range:**
  - **operating:** -30°C to +70°C junction temperature
  - **stable image:** -20°C to +60°C junction temperature
- **output interface:**
  2-lane MIPI serial output
- **output formats:** 10-bit RGB RAW
- **lens size:** 1/4"
- **lens chief ray angle:** 31.08° non-linear
- **input clock frequency:** 6 - 27 MHz
- **maximum image transfer rate:**
  - **5MP (2592x1944):** 30 fps
  - **quad HD (2560x1440):** 30 fps
  - **1080p (1920x1080):** 60 fps
  - **720p (1280x720):** 60 fps
  - **VGA (640x480):** 120 fps
- **pixel size:** 1.4 µm x 1.4 µm
- **dark current:** 15 e^-/sec @ 60°C junction temperature
- **image area:** 3684 µm x 2763 µm
- **dimensions:**
  - **COB:** 5022 µm x 3933 µm
  - **RW:** 5072 µm x 3983 µm

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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