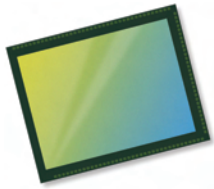


KLT-K5MF-OV12895 V1.0**OmniVision OV12895 MIPI Interfaz Foco fijo 12MP M12 Módulo de cámara**

Módulo de cámara No.	KLT-K5MF-OV12895 V1.0
Sensor de imagen	OV12895
EFL	3.3 mm
F.NO	2.8
Pixel	4096 x 3072
Ángulo de visión	150°(D) 110°(H) 80°(V)
Tipo de lente	1/2.3 pulgada
Dimensiones de la lente	14.70 x 14.70 x 19.92 mm
Tamaño del módulo	40.00 x 23.00 mm
Tipo de módulo	Foco fijo
Interfaz	MIPI

N. ° de pieza del conector de acoplamiento. AXE540124

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



OV12895 12MP product brief



12-Megapixel PureCel®Plus-S Sensor for High-End Consumer Drones and Action Cameras

Lead free
available in
a lead-free
package

OmniVision's OV12895 is a high-speed PureCel®Plus-S image sensor that brings 4K2K video and 12-megapixel images to consumer-grade drones, surveillance systems, and 360-degree action cameras. Leveraging a 1.55-micron pixel, the OV12895 captures stunning still images using 10-bit or optional 12-bit readout architecture that provides high-bit depth snapshots.

The OV12895 is built on OmniVision's PureCel Plus-S stacked-die architecture, featuring backside illumination for ultra-high resolution and crisp, vibrant images across all light levels. The stacked-die structure allows for additional sensor functionality while enabling smaller die sizes compared to non-stacked sensors.

The OV12895 captures ultra-high-resolution 4K2K video at 60 frames per second (fps) and full high-definition (FHD) 1080p videos at 240 fps with full field of view, enabling high-quality slow-motion video capture.

Available in the widely used 1/2.3-inch optical format, the OV12895's low chief ray angle of 5 degrees is suitable for mature lens ecosystems. The sensor currently is available in both RW and CLGA package formats.

Find out more at www.ovt.com.



Applications

- Consumer-grade Drones
- 360-degree Action Cameras
- Surveillance Systems

Product Features

- 1.55 μm x 1.55 μm pixel
- optical size of 1/2.3"
- 5° CRA
- enhanced dual camera support
- high-speed architecture for fast frames per second (fps)
- programmable controls for:
 - frame rate
 - mirror and flip
 - cropping
 - windowing
 - gain
 - exposure
- support for image sizes:
 - 12MP (4096x3072)
 - 4K2K (3840x2160)
 - 1080p (1920x1080), and more
- two-wire serial bus control (SCCB)
- strobe output to control flash
- embedded 13.5kbits of one-time programmable (OTP) memory
- two on-chip phase lock loops (PLLs)
- image quality controls for:
 - defect pixel correction
 - automatic black level calibration
 - lens shading correction
- built-in temperature sensor

OV12895



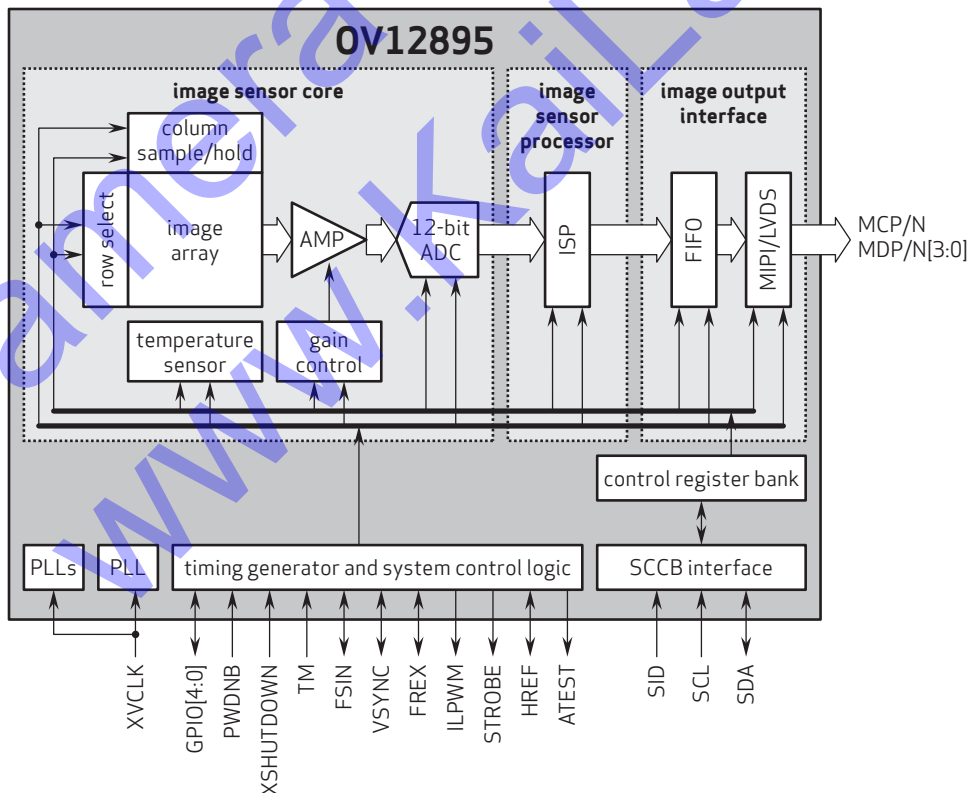
Ordering Information

- OV12895-GA5A-Z**
(color, chip probing, 150 μm backgrinding, reconstructed wafer with good die)
- OV12895-C61A-Z**
(color, lead-free, 161-pin CLGA)

Product Specifications

- active array size:** 4096 x 3072
- lens chief ray angle:** 5° linear
- power supply:**
 - core: 1.2V
 - analog: 2.8V
 - I/O: 1.8V
- input clock frequency:** 6 - 27 MHz
- power requirements:**
 - active: 300 mW @ full-res, 30 fps, 12-bit
 - XSHUTDOWN: <10 μW
- maximum image transfer rate:**
 - 12MP (12-bit) (4:3): 30 fps
 - 12MP (10-bit) (4:3): 45 fps
 - 4K2K (16:9): 60 fps
 - 1080p HD (crop+bin): 240 fps
- temperature range:**
 - operating: -30°C to +85°C junction temperature
 - stable image: 0°C to +60°C junction temperature
- scan mode:** progressive
- output formats:** 10/12-bit RGB RAW, DPCM 10-8 compression
- pixel size:** 1.55 μm x 1.55 μm
- image area:** 6398.4 μm x 4811.2 μm
- dimensions:**
 - COB: 7200 μm x 5750 μm
 - RW: 7250 μm x 5800 μm
 - CLGA: 12.8 mm x 11.8 mm
- lens size:** 1/2.3"

Functional Block Diagram



4275 Burton Drive
Santa Clara, CA 95054
USA

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

OmniVision reserves the right to make changes to their products or to discontinue any product or service without further notice. OmniVision, the OmniVision logo and VarioPixel are registered trademarks of OmniVision Technologies, Inc. PureCel and OmniBSI are trademarks of OmniVision Technologies, Inc. All other trademarks are the property of their respective owners.



OmniVision