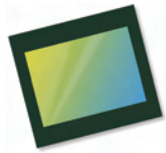


**KLT-B8MF-OS05A10 V3.0****OmniVision OS05A10 MIPI Interface Foco Fixo 5MP M12 Módulo de Câmera**

<b>Módulo de câmara No.</b>	<b>KLT-B8MF-OS05A10 V3.0</b>
<b>Sensor de imagem</b>	OS05A10
<b>EFL</b>	2.4 mm
<b>F.NO</b>	2.0
<b>Pixel</b>	2688 x 1944
<b>Ângulo de visão</b>	169°(D) 144°(H) 78.5°(V)
<b>Tipo de lente</b>	1/2.7 polegada
<b>Dimensões da lente</b>	13.10 x 13.10 x 16.06 mm
<b>Tamanho do Módulo</b>	40.00 x 22.00 mm
<b>Tipo de Módulo</b>	Foco Fixo
<b>Interface</b>	MIPI

**Acasalamento Parte conector No. AXE540124**

Conector de acoplamento na placa principal. Vendido separadamente.



# OS05A10 5-megapixel product brief



## Versatile 5-Megapixel PureCel® Sensor with High Dynamic Range for a Wide Range of Commercial Security and Consumer Applications



available in  
a lead-free  
package

OmniVision's low-power OS05A10 is a 5-megapixel image sensor that brings crisp 1080p high definition, 2K, and 5-megapixel video to a wide range of commercial security and consumer applications, including 360-degree full-view cameras. Built on OmniVision's advanced PureCel® pixel architecture, the OS05A10 utilizes backside illumination (BSI) technology to deliver enhanced low-light sensitivity and wide field of view (FOV).

Available in the popular 1/2.7-inch optical format, the OS05A10 enables video applications in widely used 4:3 and 16:9 aspect ratios. The sensor can capture 1080p full high definition slow-motion video at 120 frames per second (fps) and 2688 x 1944 resolution at 60 fps.

Additionally, the OS05A10 features a 12-degree chief ray angle (CRA) and a dual-exposure staggered high dynamic range (HDR) mode to enable excellent scene reproduction in difficult high-contrast lighting conditions.

The OS05A10 is compatible with MIPI and LVDS interfaces and comes in a chip scale package (CSP) of 6.6 mm x 5.9 mm.

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



## Applications

- Security Cameras
- High Resolution Consumer Cameras
- Action Cameras

## Product Features

- 2  $\mu\text{m}$  x 2  $\mu\text{m}$  pixel
- optical size of 1/2.7"
- programmable controls for:
  - frame rate
  - mirror and flip
  - cropping
  - windowing
- supports output formats:
  - 10/12-bit RAW RGB
- supports images sizes:
  - 5MP (2688x1944)
  - 1080p (1920x1080)
  - 720p (1280x720)
- supports 2x2 binning
- standard serial SCCB interface
- 12/10-bit ADC
- up to 4-lane MIPI/LVDS serial output interface (supports maximum speed up to 1500 Mbps/lane)
- 2-exposure staggered HDR support
- programmable I/O drive capability
- light sensing mode (LSM)
- PLL with SCC support
- support for frame sync

# OS05A10



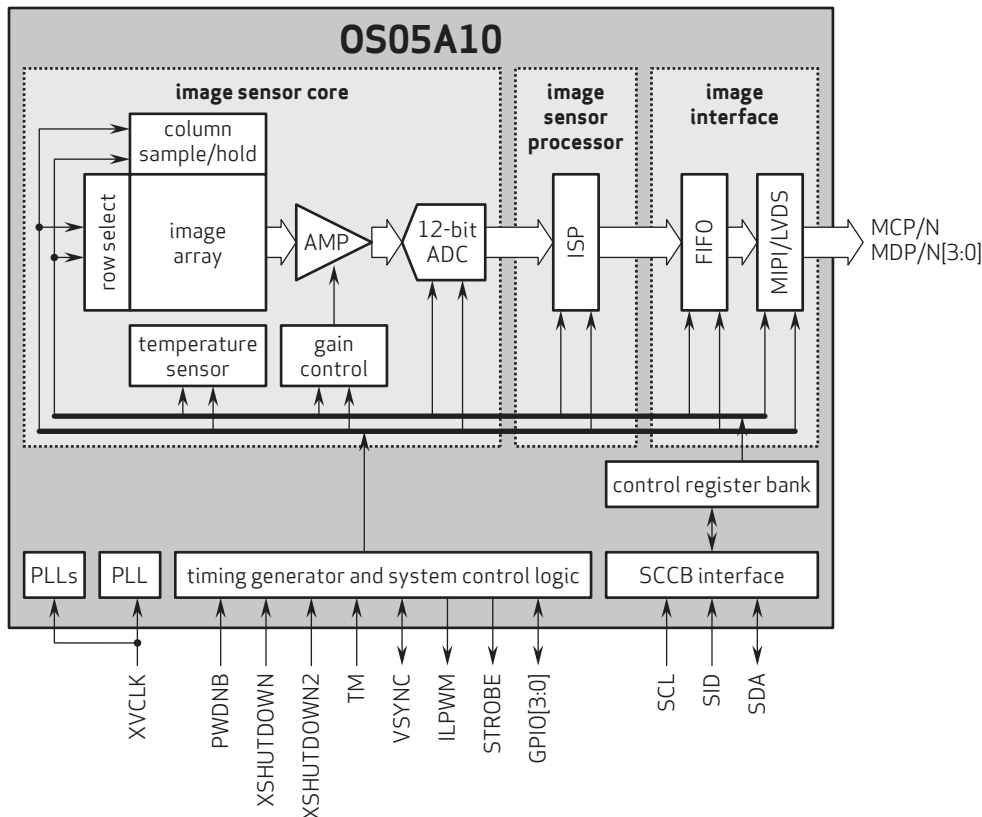
## Ordering Information

- OS05A10-H79A-Z  
(color, lead-free, 79-pin CSP)

## Product Specifications

- active array size: 2688 x 1944
- lens chief ray angle: 11° linear
- power supply:
  - core: 1.2V
  - analog: 2.8V
  - I/O: 1.8V
- power requirements:
  - active: 221 mW
  - standby: 210  $\mu\text{A}$
  - XSHUTDOWN: 0.6  $\mu\text{A}$
- temperature range:
  - operating: -30°C to +85°C junction temperature
  - stable image: 0°C to +60°C junction temperature
- output formats: 10/12-bit RGB RAW
- lens size: 1/2.7"
- input clock frequency: 6 - 27 MHz
- scan mode: progressive
- maximum image transfer rate:
  - 2688x1944: 60 fps
  - 2688x1520: 60 fps
- maximum exposure interval: VTS - 8
- minimum exposure interval: 2  $t_{\text{row}}$
- pixel size: 2.0  $\mu\text{m}$  x 2.0  $\mu\text{m}$
- image area: 5434.56  $\mu\text{m}$  x 3948.05  $\mu\text{m}$
- package dimensions:
  - CSP: 6638.8  $\mu\text{m}$  x 5935  $\mu\text{m}$

## Functional Block Diagram



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