

OV04C10

4-Megapixel Product Brief



1/2.917" Color 4-Megapixel CMOS Image Sensor with PureCel®Plus Technology

The OV04C10 RAW RGB PureCel®Plus image sensor is a high performance, 1/2.917-inch, 4-megapixel CMOS image sensor that delivers 2688 x 1520 at 60 fps.

The OV04C10 provides full-frame, sub-sampled, and windowed 10-bit MIPI images in various formats via the control of the Serial Camera Control Bus (SCCB) interface.

The OV04C10 has a 4-megapixel image array capable of operating at up to 60 frames per second (fps) in 10-bit resolution with complete user control over image quality, formatting, and output data transfer. Some image processing functions, such as defective pixel canceling, etc., are programmable through the SCCB interface.

In addition, OMNIVISION CMOS image sensors use proprietary sensor technology to improve image quality by reducing or eliminating common lighting / electrical sources of image contamination, such as fixed pattern noise, smearing, etc., to produce a clean, fully stable, color image.

The OV04C10 has a MIPI interface of up to four lanes.

Applications

- Security cameras
- Action cameras
- High resolution consumer cameras

Features

- **Active array size:** 2688 x 1520
- **Maximum image transfer rate:**
  - 2688 x 1520: 60 fps
- **Power supply:**
  - Core: 1.2V
  - Analog: 2.8V
  - I/O: 1.8V
- **Output interfaces:** Up to 4-lane MIPI serial output interface (supports maximum speed up to 1500 Mbps/lane)
- **Output formats:** 10/12-bit RGB RAW
- **Lens size:** 1/2.917"
- **Pixel size:** 1.998 µm x 1.998 µm

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