

# OS06A10

## 6-Megapixel Product Brief




## 1/2.406" Color 6-Megapixel CMOS Image Sensor with PureCel®Plus and Nyxel® Technologies

The 6-megapixel OS06A10 RAW RGB CMOS image sensor combines PureCel®Plus and Nyxel® technologies in a high performance, 1/2.406-inch optical format image sensor for action cameras, high resolution consumer cameras, and security applications.

The OS06A10 has a 6MP (3200 x 1944) image array capable of operating at up to 60 fps in 10-bit, or 30 fps in 12-bit, 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.

The OS06A10 provides full-frame, sub-sampled, and windowed 10/12-bit MIPI images in various formats via the control of the serial camera control bus (SCCB) interface.

In addition, the OS06A10 uses proprietary sensor technologies to improve image quality by reducing or eliminating common lighting / electrical sources of image contamination, such as fixed pattern noise, smearing, etc., to produce clean, fully stable, color images.

The OS06A10 has a MIPI interface of up to four lanes.

### Applications

- Security cameras
- Action cameras
- High resolution consumer cameras

### Features

- **Active array size:** 3200 x 1944
- **Maximum image transfer rate:**
  - 3200 x 1944: 60 fps (10-bit)
- **Power supply:**
  - Core: 1.2V
  - Analog: 2.8V
  - I/O: 1.8V
- **Output interfaces:** Up to 4-lane MIPI serial output interface
- **Output formats:** 10/12-bit RGB RAW
- **Lens size:** 1/2.406"
- **Pixel size:** 1.998 µm x 1.998 µm

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