



# OS05B

## 5-Megapixel Product Brief



## 5-Megapixel CMOS Image Sensor for Professional and High-End Consumer Security Cameras

The OS05B CMOS image sensor combines best-in-class pixel technology and quantum efficiency (QE) in a 5-megapixel (MP) design for professional and high-end consumer security cameras, such as industrial and factory surveillance systems, webcams, and high-end baby monitors.

The OS05B has a 1/2.781-inch optical format and its 2.0-micron BSI pixel is based on the PureCel®Plus technology. It also features OMNIVISION's Nyxel® near-infrared (NIR) technology for crisp, clear images in low-light conditions.

The OS05B has selective conversion gain – high conversion gain increases sensitivity and reduces the readout noise level while achieving optimum SNR under low-light conditions, and low conversion gain achieves a higher full well capacity in bright conditions. It captures high-resolution video at 60 frames per second (fps) with two-exposure staggered HDR.

The OS05B supports MIPI and LVDS interfaces.

### Applications

- Security cameras
- Action cameras
- High resolution consumer cameras

### Features

- **Active array size:** 2592 x 1944
- **Maximum image transfer rate:**
  - 2592 x 1944: 60 fps
- **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:** 1/2.781"
- **Pixel size:** 1.998  $\mu\text{m}$  x 1.998  $\mu\text{m}$

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