



OS08A10

8-Megapixel Product Brief



Low-Power 8-Megapixel PureCel® CMOS Image Sensor Brings 4K2K Video to Security and Consumer Applications

OMNIVISION's OS08A10 is a low-power CMOS image sensor that brings 8-megapixel resolution to a variety of applications, including commercial surveillance, IoT, action cameras, drones, and augmented / virtual reality (AR/VR) systems.

Built on OMNIVISION's advanced PureCel® pixel architecture, the OS08A10 leverages backside illumination (BSI) technology with improved low-light sensitivity to deliver high-resolution images and capture ultra-high-resolution 4K2K video, even in challenging high-contrast lighting conditions.

The OS08A10 captures smooth, best-in-class 4K2K video at 60 frames per second (fps) and 1080p video at 120 fps, enabling detailed wide-area coverage.

The OS08A10 also features a 11-degree chief ray angle (CRA), a two-exposure staggered high dynamic range (HDR) mode, and low power requirements to enable a range of battery-powered drones and wireless devices. The OS08A10 is compatible with advanced compression technology such as high-efficiency video coding (HEVC) to deliver 4K video to mainstream displays.

Applications

- Security cameras
- Action cameras
- High resolution consumer cameras

Features

- **Active array size:** 3840 x 2160
- **Maximum image transfer rate:**
 - 3840 x 2160: 60 fps
- **Power supply:**
 - Core: 1.2V
 - Analog: 2.8V
 - I/O: 1.8V
- **Output interfaces:** Up to 4-lane MIPI/LVDS serial output interface
- **Output formats:** 10/12-bit RGB RAW
- **Lens size:** 1/1.8"
- **Pixel size:** 2.0 μm x 2.0 μm

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