



OX08D30

8-Megapixel Product Brief



8-Megapixel TheiaCel® Image Sensor with Industry-Leading LED Flicker Mitigation in Exterior Automotive Cameras

The OX08D30 is an 8-megapixel (MP) automotive CMOS image sensor with TheiaCel® technology, designed for advanced driver assistance systems (ADAS) and autonomous driving (AD) exterior cameras.

The OX08D30 further extends single-exposure dynamic range to mitigate LED flicker and other temporal sampling artifacts, resulting in superior image quality regardless of lighting conditions. It is pin-to-pin compatible with the OX08D10, which has become the standard being used in most ADAS platforms today.

The OX08D30 provides the best low-light performance in the industry, with unmatched high-temperature and color ratio stability. It features 20% lower power consumption and is 50% smaller than other image sensors in its class. It uses OMNIVISION's a-CSP™ package technology to deliver the smallest possible solution.

The OX08D30 is available for sampling now and is in mass production.

Applications

- Automotive
 - High resolution front viewing
 - Machine vision
 - Autonomous driving
 - Digital video recording

Features

- **Active array size:** 3840 x 2160
- **Maximum image transfer rate:**
 - 3840 x 2160: 40 fps
- **Power supply:**
 - Analog: 3.3V
 - Digital: 1.1V
 - I/O pads: 1.8V / 3.3V
- **Output interfaces:** Up to 4-lane MIPI CSI-2
- **Output formats:** Uncompressed 24-bit (HDR4) / 20-bit (HDR3), and 20/16/14/12-bit (PWL) combined HDR
- **Lens size:** 1/1.729"
- **Pixel size:** 2.1 µm x 2.1 µm

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