



# OX03J10

## 3-Megapixel Product Brief



### 140 dB HDR with LED Flicker Mitigation Combined in One SoC for Automotive Cameras

The OX03J10 is a 3MP high-sensitivity CMOS SoC for human vision and machine vision automotive applications, including 360° surround view display systems, rear view cameras and camera monitoring systems (CMS). It uniquely offers simultaneous 140 dB HDR and industry-leading LED flicker mitigation along with the best low light performance available.

The OX03J10 features 1920 x 1536 resolution in 1/2.44-inch optical format. The OX03J10 comes in the industry smallest a-CSP™ package. Size and cost are reduced due to the integration of the image signal processor with the sensor together in one SoC.

The OX03J10 features OMNIVISION's PureCel®Plus-S technology and uses a 3.0 μm Deep Well™ split pixel. It outputs YUV and RAW simultaneously. It is ASIL C compliant.

#### Applications

- 360° surround view systems
- Rear view cameras
- Camera monitoring systems (CMS)

#### Features

- **Active array size:** 1920 x 1536
- **Maximum image transfer rate:** 30 fps @ 1920 x 1536 (combined HDR in YUV422/RGB888 + 16/14/12-bit (PWL) RAW combined HDR)
- **Power supply:**
  - Analog: 3.3V
  - Digital: 1.1V
  - I/O pins: 1.8V or 3.3V
- **Output interfaces:** Up to 4-lane MIPI CSI-2
- **Output formats:** Combined HDR in YUV422/RGB888 + 16/14/12-bit (PWL) RAW combined HDR, uncompanded 24-bit or 20/16/14/12-bit (PWL) RAW combined HDR
- **Lens size:** 1/2.44" for 1920 x 1536 image size
- **Pixel size:** 3.0 μm x 3.0 μm

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