



OS04J10

4-Megapixel Product Brief



4MP BSI CMOS Image Sensor for Industrial and Consumer Security Surveillance Cameras

The OS04J10 is a 4-megapixel (MP) CMOS image sensor featuring a large, 2.898-micron (μm) backside-illuminated (BSI) pixel with PureCel®Plus and Nyxel® technologies for industry-leading ultra-low-light performance in industrial and consumer security surveillance applications.

Dual conversion gain (DCG™) technology extends high dynamic range (HDR) by sampling conversion gains twice and adding exposures for accurate scene reproduction, delivering the most accurate low-noise and motion artifact-free captures, both indoors and outdoors.

The OS04J10 sensor has a frame rate of 60 fps and features ultra-low power (<200 mW) and noise with long battery life.

The OS04J10 has a 1/1.880-inch OF and is pin-to-pin compatible with previous-generation sensors so customers can seamlessly upgrade to higher-resolution devices. It features CSP package technology for the smallest possible solution.

The OS04J10 supports MIPI/LVDS: 2/4-lane.

Applications

- Security surveillance systems
- IP cameras
- HD analog cameras

Features

- **Active array size:** 2560 x 1440
- **Maximum image transfer rate:**
 - Linear mode:
 - 2560 x 1440 @ 60 fps @ 10-bit
 - 2560 x 1440 @ 30 fps @ 12-bit
 - 2-exposure staggered HDR mode:
 - 2560 x 1440 @ 30 fps x2 @ 10-bit
 - DCG™ combine HDR mode:
 - 2560 x 1440 @ 30 fps @ 10-bit
- **Power supply:**
 - Analog: 2.8V
 - I/O: 1.8V
 - Core: 1.2V
- **Output interfaces:** 10-bit 4-lane MIPI
- **Output formats:**
 - Linear: 10/12-bit RGB RAW
 - 2-exposure staggered HDR: 10-bit RGB RAW
 - DCG™ combine HDR: 12/16-bit RGB RAW
- **Lens size:** 1/1.880"
- **Pixel size:** 2.898 μm x 2.898 μm

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