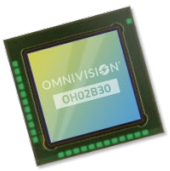


# OH02B30

## 2-Megapixel Product Brief




## High-Resolution, Small CMOS Image Sensor for 3D Intraoral Dental Scanners

The OH02B30 is a high-performance CMOS image sensor featuring a 1.116-micron pixel built on OMNIVISION's PureCel®Plus-S stacked-die technology which provides the best image quality for three-dimensional (3D) intraoral dental scanners.



The 2-megapixel (MP) OH02B30 sensor achieves 60 frames per second (fps) at 1500 x 1500 resolution, and 120 fps at 720p. The OH02B30 comes in a small, 2.4898 mm x 2.4898 mm, 24-pin chip-scale package (CSP) with a 1/7.603-inch optical format, and has a MIPI high-speed digital interface for cameras in benchtop, standalone and portable intraoral scanners.

The OH02B30 is a low-power device that enhances patient comfort.

### Applications

- Dental applications

### Features

- **Active array size:** 1516 x 1516
- **Maximum image transfer rate:**
  - 1500 x 1500: 60 fps
- **Power supply (mode 1):**
  - AVDD: 2.7V to 3.0V (2.8V nominal)
  - DVDD: 1.14V to 1.26V (1.2V nominal)
- **Power supply (mode 2):**
  - Analog: 2.8V
  - Core: 1.2V
  - I/O: 1.2V
- **Output interfaces:** 2-lane MIPI TX interface with speeds up to 1.0 Gbps/lane
- **Output formats:** 10-bit RGB RAW
- **Lens size:** 1/7.603"
- **Pixel size:** 1.116 µm x 1.116 µm

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