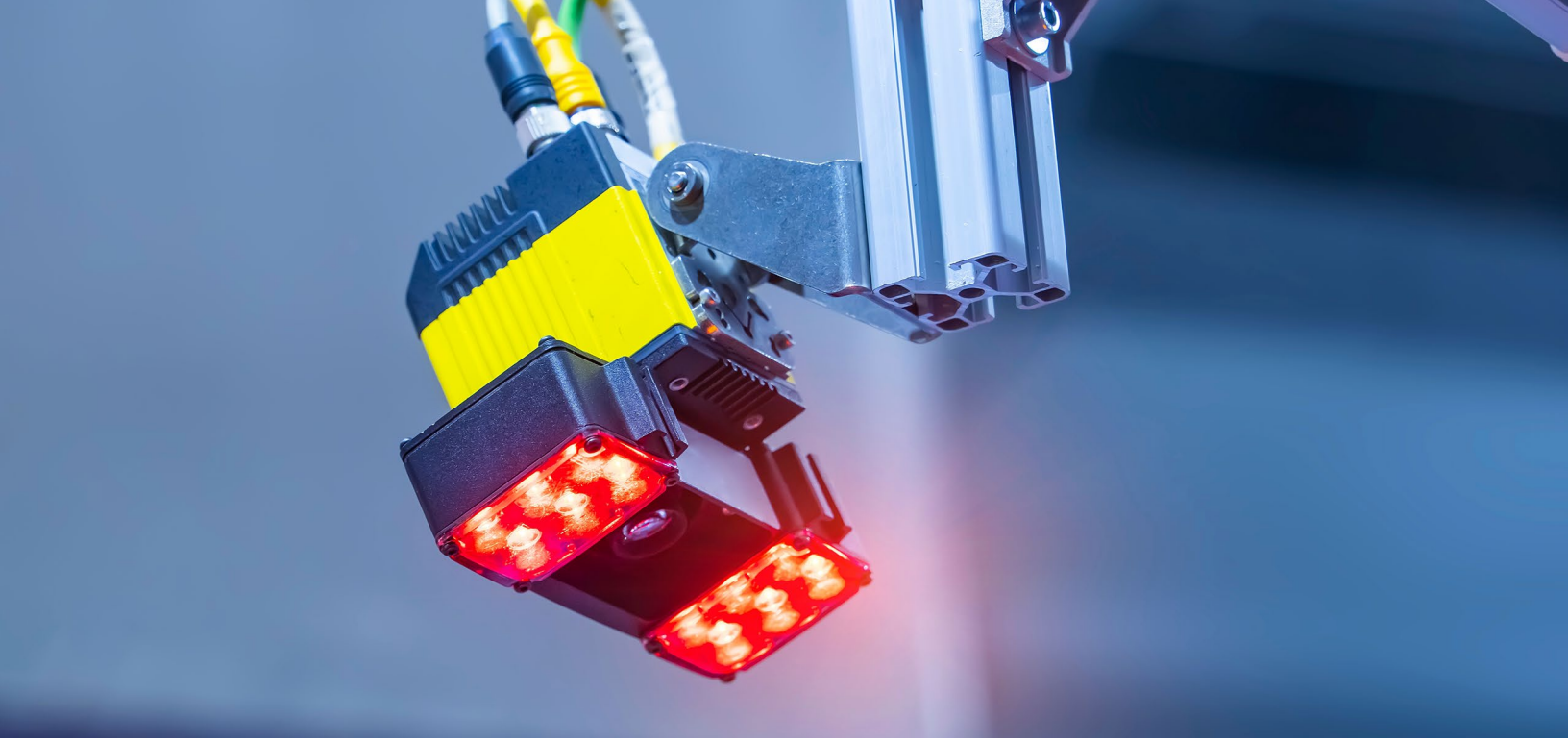


OG02D

2-Megapixel Product Brief



2MP CMOS Image Sensor with PureCel®Plus-S, Global Shutter, and Nyxel® Technologies for Machine Vision Applications

The OG02D is a 1/3.529-inch optical format, 1920 x 1280 resolution, stacked chip, low power, high performance CMOS image sensor featuring PureCel®Plus-S, Global Shutter, and Nyxel® technologies for machine vision applications.

The OG02D10 (RGB) and OG02D1B (B&W) have image arrays capable of operating up to 120 frames per second (fps) in 10-bit MIPI RAW output with complete user programmability over image quality, formatting and output interfaces.

The OG02D performs sophisticated camera functions on-chip controlled via the serial camera control bus (SCCB) interface with optional CRC. These functions include black level correction (BLC) and defect pixel correction (DPC).

Applications

- Machine vision cameras
- Industrial bar code scanning
- Factory automations
- Robotics

Features

- **Active array size:** 1920 x 1280
- **Maximum image transfer rate:**
  - 1920 x 1280: 120 fps
- **Power supply:**
  - Analog: 2.8V
  - Digital: 1.2V
  - I/O: 1.8V
- **Output interfaces:** Up to 4-lane D-PHY MIPI CSI-2, 10-bit DVP
- **Output formats:** Linear output
- **Lens size:** 1/3.529"
- **Pixel size:** 2.2 µm x 2.2 µm

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