



OH0FA

720 x 720 Product Brief



Industry's Highest-Resolution Image Sensor for ENT, Cardiac, Arthro, OB-GYN and Utero-Renal Endoscopes

OMNIVISION's OVMed® OH0FA is a high performance 0.93 x 0.93 mm analog CMOS image sensor in an 1/17.537-inch optical format. The sensor provides 720 x 720 resolution at 30 frames per second (fps)—the highest available resolution for ENT, cardiac, arthro, OB-GYN and utero-renal endoscopes, yielding unmatched visibility for surgeons to see and diagnose early-stage diseases.

Built on OMNIVISION's PureCel®Plus-S pixel technology, the OH0FA, with its 1.008 µm pixel size provides the high color fidelity and signal-to-noise ratio of 37.5 dB for crisper and more realistic medical images. Additionally, PureCel®Plus-S offers high full-well capacity, zero blooming and lower power consumption.

OMNIVISION's OVMed® product line includes medical-grade, trusted components that undergo

comprehensive certification, qualification and testing. This increases the likelihood and speed of FDA certification for medical device OEMs, while providing hospitals, surgeons and patients with a high level of confidence in the endoscope device.

The OH0FA image sensor offers a wide range of resolution and frame rate combinations that can be selected based on the procedural requirements: 720 x 720 at 30 fps, 600 x 600 at 40 fps or 400 x 400 at 60 fps. The high signal-to-noise ratio of the image sensor results in sharper, crisper images with excellent color fidelity—so surgeons can see the most realistic images to better diagnose and treat disease.

The OH0FA10 has 2.5 m drive distance, while the OH0FA20 has 4 m drive distance.

Applications

- Medical endoscopes
- Medical and dental equipment
- Security and surveillance
- Toys and games
- Wearable devices

Features

- **Active array size:** 720 x 720
- **Maximum image transfer rate:**
 - 720 x 720: 30 fps
- **Power supply:**
 - Analog: 3.3V ±5%
- **Output interfaces:** AntLinX® Analog
- **Output formats:** Analog signal output
- **Lens size:** 1/17.537"
- **Pixel size:** 1.008 µm x 1.008 µm

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