



OH0116



OVMed® ISP product brief

Mini Class Medical ISP Module – USB Module is Cost-Effective and Compact for Endoscopes and Catheters

OMNIVISION's OVMed® OH0116 is an ASIC-based, stand-alone image signal processor (ISP) module with USB output. Designed to pair with our high-performance medical image sensors, the OVMed® OH0116 provides a small and cost-effective option for catheters and single-use and reusable endoscope handles.

The OVMed® OH0116 module can be quickly and easily integrated into medical imaging systems, allowing customers to fully utilize the many performance and imaging capabilities this compact module has to offer without extending time-to-market.

Find out more at www.ovt.com.



OVMed® OH0116

Evaluation Kit Ordering Information



- Contact Sales Rep OH0116 evaluation kit for OVM6946 based medical camera
- Package Includes:
 - OMNIVISION camera AA module or OVMed® cable module with OVM6946 CameraCubeChip®
 - PCB board for OV6946 interface
 - USB cable with USB mini connector
 - Download available for OvtMedical demo software

Applications

- Medical Endoscopes
- Industrial Video Scopes
- Veterinarian Endoscopes
- Security and Surveillance Monitoring Systems
- Dental Imaging

Mechanical Specifications

- Size: L: 60 mm, W: 16 mm
- Input connector: 4-pin OMNIVISION AA module; 10-pin connector
- Power switch: 1
- Output USB connector: Micro USB
- Predefined adjustment button: 7

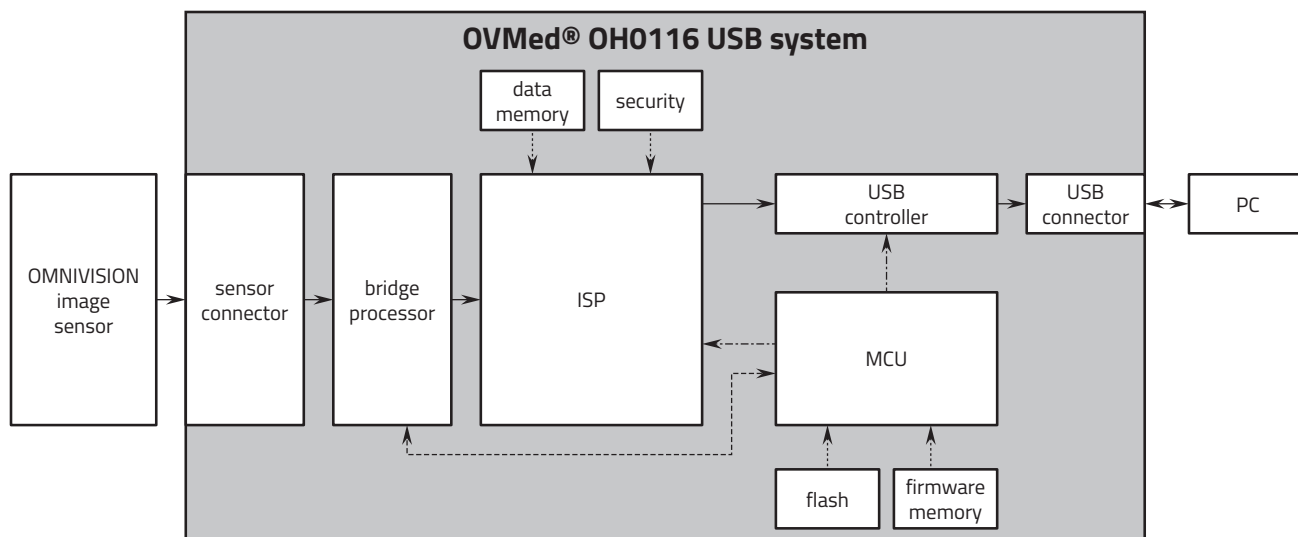
Product Features

- Intergrated design:
 - Sensors
 - Interface
 - Analog-to-digital converter
 - Processor bridge
 - ISP
 - PC interface
- Adjustable system parameters with predefined buttons
- ISP delivers high-quality images
- Power-on time: <300 ms
- System latency: <100 ms
- Compact form factor to fit space-constrained devices

Product Specifications

- Supports image size: 400 x 400
- Supports:
 - Lens shading compensation
 - Defect pixel connection
 - De-noise
 - Black level compensation
- YUV image format
- AntLinX™ Analog sensor interface for OVM6946
- Support for nonvolatile memory to store production and calibration data
- Output interface to USB 2.0 interface
- Supports AEC/AGC/AWB control
- Certified for RoHS, REACH, IEC 60601 (limited)
- Supports brightness, saturation and sharpness adjustment

Functional Block Diagram



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