



# 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](http://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

## Software Development Kit (SDK)

- Board comes with SDK to help customers develop their own applications. SDK provides a C++ callable function library
- Main Features:
  - Provides system initialization
  - Provides interface to capture image
  - Easy for customers to develop their own GUI and applications
  - User does not need to modify hardware or registers
  - Provides demo program to show how to use the APIs
  - All demo programs come with executable and source code
  - Library is provided in binary (DLL) format
  - Supports Windows OS

## Mechanical Specifications

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

## Applications

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

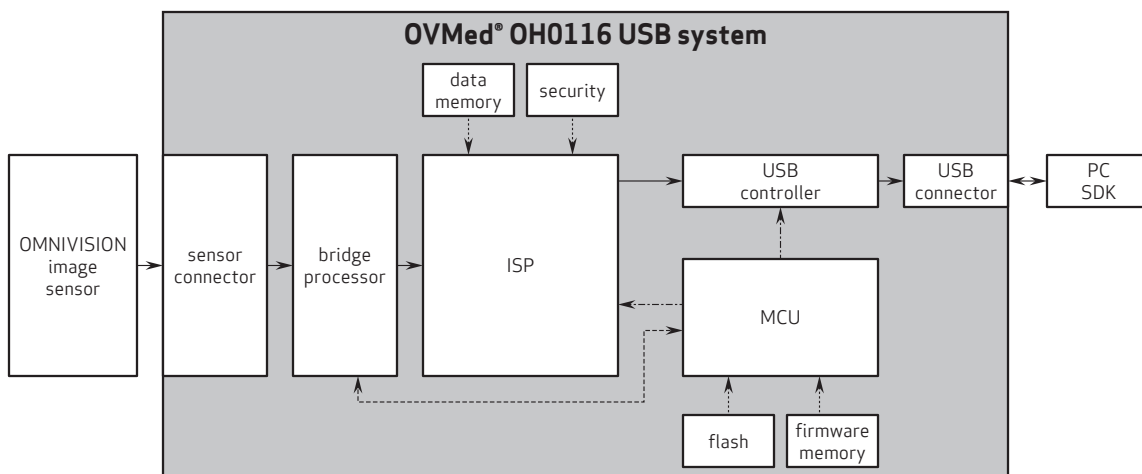
## Product Features

- Intergraded design:
  - Sensors
  - Interface
  - Analog-to-digital converter
  - Processor bridge
  - ISP
  - PC interface
- Adjustable system parameters with predefined buttons
- ISP delivers high-quality images
- Ready-to-use software development kit (SDK) to facilitate easy integration
- Compact form factor to fit space-constrained devices
- Power-on time: <300 ms
- System latency: <100 ms

## Product Specifications

- Supports image size: 400 x 400
- Supports:
  - Lens shading compensation
  - Defect pixel connection
  - De-noise
  - Black level compensation
- YUV image format
- Sensor interface to 4-pin mixed-signal interface
- 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), IEC 62304
- Supports brightness, saturation and sharpness adjustment

## Functional Block Diagram



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