



OVMed®

OH0119 Advanced Class Medical Image Processing Unit product brief



Compact IPU With Video Recording, Graphics and Storage for Endoscope CCUs

OmniVision's OVMed® OH0119 Image Processing Unit (IPU) is an FPGA-based, imaging solution featuring snapshot, video recording, graphics overlay and memory for storage. The OVMed® OH0119 IPU interfaces with our high-performance medical image sensors and can fit into an endoscope's camera control unit (CCU).

This IPU allows medical designers to combine the benefits of our extremely small image sensors with a feature-rich ISP for easy integration into their systems, enabling a short time to market with high image quality.

Find out more at www.ovt.com.



Applications

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

Product Features

- Integrated design:
 - Sensor
 - Processor bridge
 - ISP
 - Display interface
- Works stand-alone; no computer needed
- Software tool for customer setting adjustments
- Small form factor fits standard medical equipment
- Market-ready, end-to-end solution
- Compatible with HDMI monitors
- Easily adjustable system parameters with pre-defined buttons
- Android platform: Customers can develop in Android
- Advanced ISP delivers high-quality images

Product Specifications

- Supports image sizes: 400 x 400 and 200 x 200
- Output interfaces: HDMI
- Image output formats: RGB, RAW and YUV
- Standard 5V power supply
- Image capture rate: 30 fps
- Supports AEC/AGC/AWB control
- Display resolution: 720p and 1080p at 60 fps
- 8 hardware buttons support adjustments, including brightness, contrast, saturation and others
- 4-pin mixed-signal interface for OmniVision medical image sensors
- Reconfigurable buttons and settings via USB port connection to a PC

Mechanical Specifications

- Size: Length: 132 mm, Width: 106 mm
- Power switch: 1
- Input connector: 4-pin OmniVision AA module; 10-pin connector
- Configuration connector: Mini USB
- Output to display: HDMI

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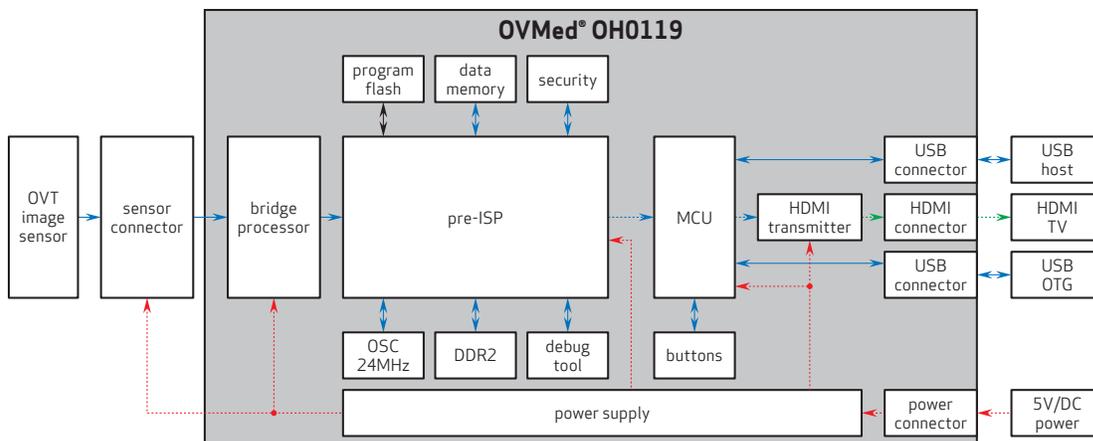


Ordering Information

- **Contact Sales Rep**
Complete SDK evaluation kit (advanced) for OV6946-based medical camera

- Package includes:
- OmniVision camera AA module/daughter board with OV6946 image sensor
 - PCB motherboard with OV6946 interface
 - USB power adapter
 - USB cable with USB mini connector
 - HDMI cable for HD monitor
 - CD-ROM containing:
 - Setup program
 - Install guide
 - User guide

Functional Block Diagram



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