

# OH1118



## OVMed® ISP product brief

### Advanced Class Image Processing Unit – Compact IPU with High-Definition Multimedia Interface Output and High Image Quality for Endoscope CCUs

OMNIVISION's OVMed® OH1118 Image Processing Unit (IPU) is an ASIC-based, imaging solution featuring high-definition multimedia interface output, advanced automatic exposure and gain control, RGB noise reduction, edge enhancement and RAW 8/10/12 image output. The OVMed® 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 leverage the benefits of our extremely small image sensors with easy integration into their systems, enabling a short time to market with high image quality.

Find out more at [www.ovt.com](http://www.ovt.com).



# OVMed® OH1118

## Evaluation Kit Ordering Information



- Contact Sales Rep OH1118 evaluation kit for OV6946-based medical camera
- Package includes:
  - OMNIVISION camera AA module/daughter board or OVMed® cable module with OV6946
  - PCB with OV6946 interface
  - USB power adapter
  - USB cable with USB mini connector
  - High-definition multimedia interface cable for HD monitor

## Mechanical Specifications

- Size: Length: 85 mm, Width: 35 mm, Height: 10 mm
- Input connector: 4-pin OMNIVISION AA module; 10-pin connector
- Power switch: 1
- Output USB connector: mini USB
- Redefinable adjustment buttons: 8
- Output to display: high-definition multimedia interface

## Applications

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

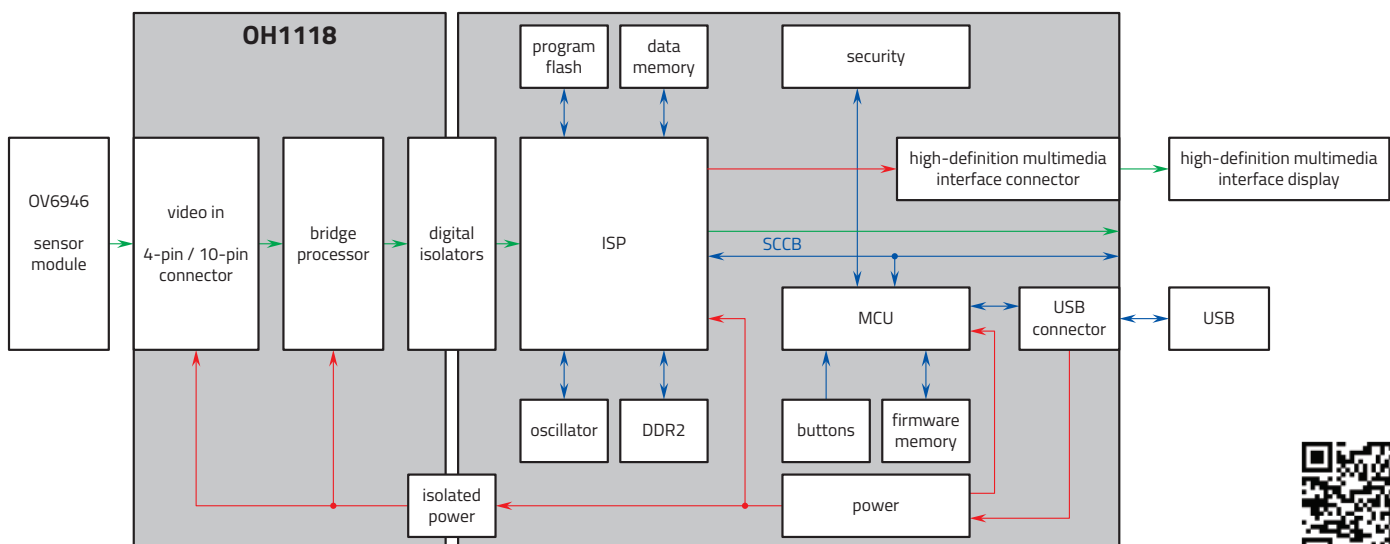
## Product Features

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

## Product Specifications

- Supports image sizes: 400 x 400
- Image output formats: RGB, RAW, and YUV
- Display resolution: 480p at 60 fps
- AntLinx™ Analog sensor interface
- Output interfaces: high-definition multimedia interface
- Supports AEC/AGC/AWB control
- 8 hardware buttons support adjustments, including brightness, contrast, saturation and others
- Reconfigurable buttons and settings via USB port connection to a PC

## Functional Block Diagram



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