



OH0130

OVMed® ISP product brief



Advanced Class Medical Imaging Processing Unit – OVMed® ISP for Endoscopes and Catheters with MIPI and Analog Input Interfaces

OMNIVISION's OH0130 ASIC-based board is a member of its award-winning OVMed® medical image signal processor (ISP) family, designed to pair with its high performance medical image sensors for quick integration into single-use and reusable endoscopes as well as catheters. The OH0130 supports all of OMNIVISION's HD and analog medical image sensors, enabling customers to expand to full HD imaging with no ISP system redesign.

The OH0130 offers a cost-effective option for creating a camera control unit (CCU) system platform that can process higher, full-HD resolution images of up to 1080p from a broad range of image sensors with a single board. It accepts dual inputs for either a MIPI interface or AntLinx™ Analog interface, making it compatible with OMNIVISION's entire portfolio of medical image sensors. The

OH0130 offers these high performance features, along with USB 3.0 Type C, HD output, in a small form factor that can fit into the handle of a larger endoscope or into a CCU. USB-C connectivity enables developers to create their own user interfaces and perform post-processing of the image for enhanced diagnostics.

The OH0130 also supports an LED control board that can adjust the image brightness. These features make the OH0130 an ideal imaging solution for a wide range of endoscopic procedures, including airway management and urology, using esophagoscopes, laryngoscopes, thoroscopes, pleuroscopes, bronchoscopes, mediastinoscopes and utero-renoscopes.

Additionally, it plans to be medically pre-certified to comply with IEC 60601 (ESD, EMC, EMI). The OH0130 also plans to be compliant with REACH and RoHS, and is manufactured in facilities certified to the ISO 13485 and ISO 9001 standards.

Find out more at www.ovt.com.



OVMed® OH0130

Evaluation Kit Ordering Information



- Contact Sales Rep OH0130 evaluation kit for OCHSA-based medical camera
- Package Includes:
 - OMNIVISION camera AA module or OVMed® cable module for OCHSA10
 - PCB board for OH01A10 interface
 - USB cable with USB mini connector
- Download available for OvtMedical demo software

Applications

- Medical and Veterinary Endoscopes
- Industrial Processing Cameras

Mechanical Specifications

- Size L: 100 mm W: 22 mm
- Digital sensor connector: 40-pin QSE-020-01 or AXE540127
- Output USB connector: USB3.0 Type C

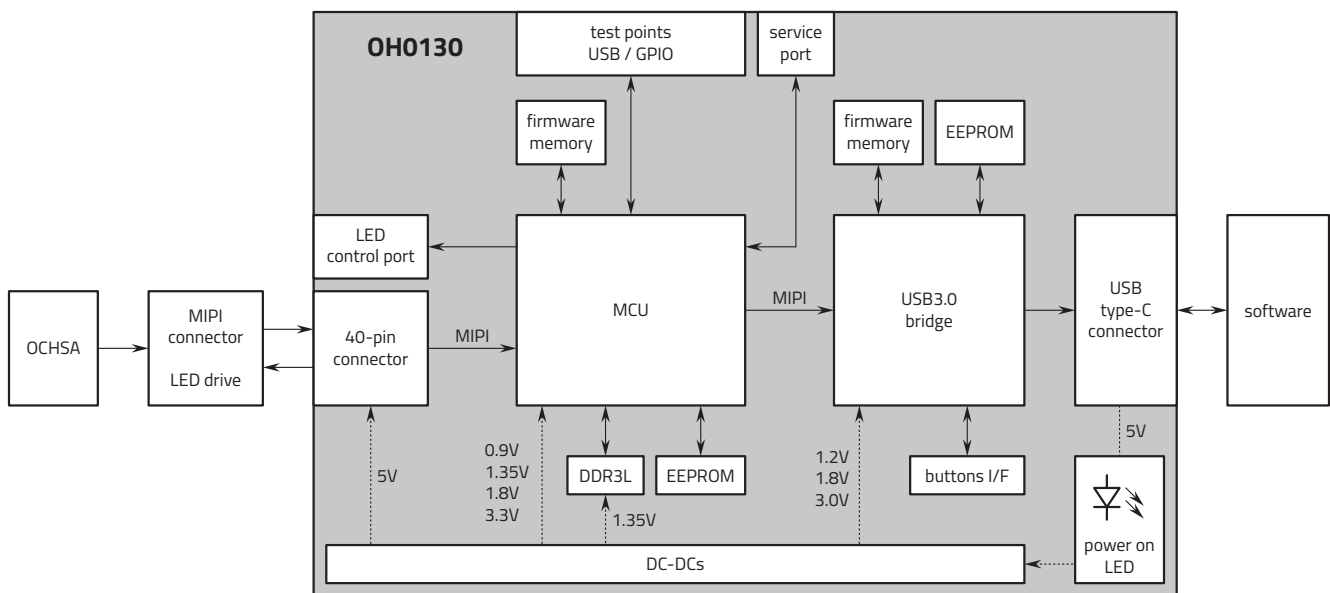
Product Features

- Integrated design: sensor, processor bridge, ISP, and PC interface
- Seamless evaluation and build with customer equipment
- Small form factor to fit space-constrained equipment
- Market-ready, end-to-end solution
- Easily adjustable system parameters with pre-defined buttons
- Software compatibility with Windows
- Advanced ISP delivers high quality images
- Light control function including ALC (Automatic Light Control)
- Low EMC / EMI to help passing customer medical device certification

Product Specifications

- Supports image size: 1920 x 1080, 800 x 800
- Supports AEC / AGC / AWB control
- Supports manual white balance
- Supports OH01A, OCHSA
- Supports brightness / contrast adjustment
- Image output formats: RAW and YUV
- Supports saturation adjustment
- Output interface USB3.0 interface
- Supports sharpness adjustment
- Current <500 mA
- Supports 2D / 3D de-noise function
- USB 5V power supply
- AntLinX™ Analog sensor interface for OVM6946

Functional Block Diagram



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