

$OVMed^{\mathsf{TM}}\text{-}B1\,{}_{\mathsf{USB}\,\mathsf{System}\,\mathsf{product}\,\mathsf{brief}}$





OVMed-B1 USB System is an Easily Integrated USB System for Medical Imaging

OmniVision's OVMed-B1 USB system is a compact image output board solution with stand-alone image signal processor (ISP) system-on-a-chip (SoC). Designed specifically to pair with the high-performance OV6946 medical image sensor, the OVMed-B1 USB system integrates a digital signal processor (DSP) solution with an ISP, analog-digital conversion and support connection with host device. The OVMed-B1 USB system allows customers to quickly and easily integrate

OV6946 into the medical imaging device, and use the many performance and imaging capabilities the ultracompact sensor has to offer without extending time-to-market.

Find out more at www.ovt.com.





Applications

- Medical Endoscopes
- Industrial Video Scopes
- Security and Surveillance Monitory Systems

Product Features

- Integrated design: sensor, processor bridge, ISP, and PC interface
- Compact form factor to fit spaceconstrained equipment
- Easily adjustable system parameters with pre-defined buttons
- Advanced ISP delivers high quality
- Ready-to-use Software Development Kit (SDK) to facilitate IP integration
- Seamless evaluation and build with customer equipment
- Market-ready, end-to-end solution
- Software compatibility with Windows. Linux, and Android platforms

OVMed™-B1

Ordering Information

- 0V00000-EG00-0116 Complete SDK Evaluation Kit (basic) for OV6946-based Medical Camera

 - Package Includes:
 OmniVision camera AA module with
 0V6946 image sensor
 PCB board for 0V6946 interface
 - PLB board for OVB46 interrace
 USB cable with USB mini connector
 CD-ROM containing:

 Installation program
 OVMed_SDK_Install Guide
 OVMed_SDK_User Guide
 Demo programs with source code



Product Specifications

- Supports image size 400 x 400
- YUV image format
- Sensor interface to 4-pin OV6946 mixed signal interface
- Output interface to USB2.0 interface
- Supports AEC/AGC/AWB control
- Supports brightness adjustment
- Supports saturation adjustment
- Supports sharpness adjustment

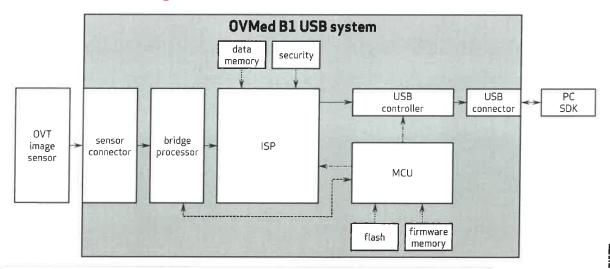
Software Development Kit (SDK)

- The board comes with SDK. It can help customers develop their own applications. The SDK provides a C++ callable function library.
- Main features:
- Provides system initialization
- Provides interface to capture image Provides interface for system control:
- brightness/saturation/sharpness/ AWB, etc.
- Main features (continued): Easy for customers to develop their own GUI and applications
- Users don't 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, MacOS and Linux 05

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

Functional Block Diagram



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