OVMed®

OH0137 Mini Class ISP Module product brief

Wi-Fi Enabled

Medical Imaging System with Wireless Output

OmniVision's OVMed® OH0137 is an advanced image system solution that offers optimized, industry-leading feature set and image quality. Designed specifically to pair with OmniVision's high-performance medical image sensors, the OVMed® OH0137 system combines this ISP with an analog-to-digital-conversion (ADC) and Wi-Fi transmitter.

The OVMed® OH0137 image processing unit offers a low-power ISP solution with user-configurable buttons and wireless control, allowing customers to easily integrate an ISP into their medical imaging devices, in a cost-effective, quick time-to-market manner.

Find out more at www.ovt.com.

Omni Vision.

OVMed® OH0137

Applications

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

Product Features

- Integrated design:
  - Sensor
  - Processor bridge
  - ISP
  - Wi-Fi module
- 4-pin or 10-pin mixed-signal interface for OmniVision medical image sensors
- Advanced ISP delivers high-quality image sizes:
  - 400 x 400
  - 200 x 200
- Software tool for customer setting adjustments, easily adjustable system parameters including brightness, contrast, and saturation
- Supports AEC/AGC/AWB control
- Reconfigurable camera and display / control connected wirelessly
- Market-ready, end-to-end solution
- Supports most wireless platforms:
  - Android
  - iOS
- Software development kits (SDK) support customers developing their applications
- Supports battery power: 6.5 hours operation per full battery change

Product Specifications

- Board size:
  L: 84 mm, W: 20 mm, H: 12 mm
- Standard 5V power supply
- Battery power switch: 1
- Power buttons: 1
- Input connector: 4-pin OmniVision AA module; 10-pin connector
- Power and charge connector: Micro USB
- Wireless antenna: 1
- Wireless output: IEEE802.11 ac with 5 GHz frequency
- Image output formats: motion JPEG
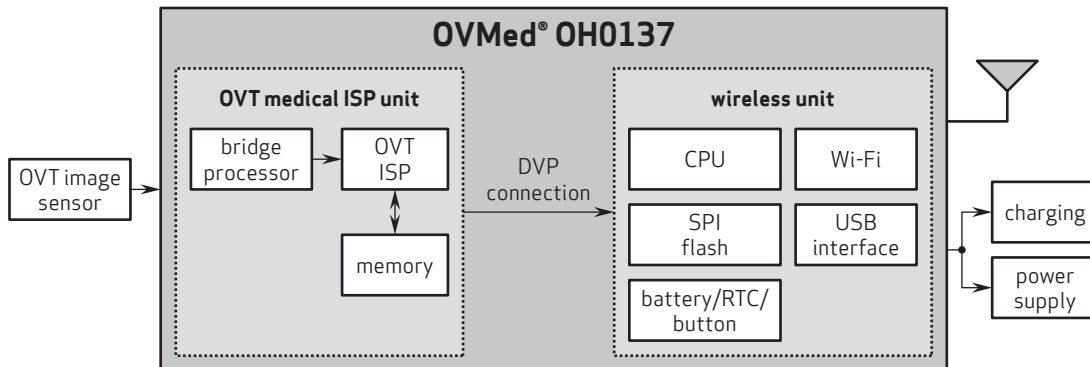- Image capture rate: 30 fps

Ordering Information

- **Contact Sales Rep**
  OVMed® OH0137 output board for OVMed® ISP (E2)

  Package includes:
  - OmniVision camera AA module/daughter board with OV6946 image sensor
  - PCB motherboard with OV6946 interface
  - USB power adapter
  - USB cable with micro USB connector
  - Rechargeable battery
  - CD-ROM containing:
    - Setup program
    - User manual
    - Hardware manual
    - SDK development guide

Functional Block Diagram

OVMed® OH0137

OVT medical ISP unit: OVT image sensor → bridge processor → OVT ISP ↔ memory — DVP connection — wireless unit: CPU, Wi-Fi, SPI flash, USB interface, battery/RTC/button → charging, power supply → antenna

OmniVision®