



Shenzhen HaiRayVision Technology Co., Ltd.

——Endoscope Video Processing & Decoding Mainboard Series

——High-Tech Enterprise | Medical-Grade ISP Image Processing Expert for UVC Endoscopes——

※Product Model: HRY 9734 V01 (board-to-board connector)

----- Patent Number: CN210431562U

※ Product Introduction:

Supported Sensor Models	Frame Rate@Resolution
OV9734	1280*720@30fps
OCH01A10	1280*720@30fps
OV2740	1920*1080@60fps
OCHSA10	800*800@60fps
OCH02B30	1500*1500@30fps
ES101	1000*1000@30fps
output interface	USB2.0 Micro B and board-to-board connector mating



※Product Overview:

The HRY 9734 V01 is a high-performance, micro-power UVC endoscope image-processing and decoding mainboard. It is a core component for endoscope ISP image processing. To ensure signal stability, reduce soldering processes, and facilitate integration into the host mainboard, a board-to-board connector form-factor design has been specially added. Users only need to design a mating adapter board to implement it. Its compact size is 35 mm × 15 mm ±0.2 mm. It supports driving long-distance Sensor MIPI signal input over 2–6 meters. With advanced 7th-generation ISP image algorithm processing technology, it features USB 2.0 high-speed Micro-B output and low signal latency, and can pass EMC testing and isolation requirements.

It supports the UVC protocol and OTG function. It provides SDKs and APIs for ARM smart mainboards, endoscope hosts, mobile phones, tablet platforms, and operating systems such as Android, Linux, Windows, Ubuntu, and iOS, along with comprehensive technical support.

Through linked control between GPIO and the APP, it supports one-touch white balance, photo capture, video recording, and manual adjustment of parameters such as white balance, exposure, sharpness, and brightness. Customized services can be provided according to user functions (such as dimming) and size requirements, as well as medical-grade and industrial-grade fine image-effect tuning services. This product has core patented technology. Using the HaiRuiYang (HRY) decoder board keeps your endoscope products free from export and infringement restrictions. It is widely used in medical multi-department endoscopes, industrial endoscopes, and other fields.

※Plug and Play:

Driver-free on Windows, Android, Linux, iOS, and other systems



※Product Features:

Adopts advanced 7th-generation ISP, supporting 720P to 5 MP at 30 FPS.

Supports GPIO-based control for one-touch white balance, photo/video recording, dimming, etc.

High-speed 480 Mbps USB 2.0 data interface, supporting OTG and UVC protocols.

Low latency, excellent anti-reflection/glare suppression processing, and finely tuned medical-grade ISP performance, ensuring no glare/reflection during use.

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Industrial-grade materials, high-grade ESD protection, and EMC performance.

Mainboard MIPI signal endoscope driving capability: 2–6 m.

Supports LED and fiber-optic illumination driving.

The product is a green and eco-friendly product, and all manufacturing processes comply with RoHS international standards.

Can be optionally paired with a UVC isolation board.

※Service Advantages:

Solid full-chain technical service capabilities, covering the complete stages from image processing and hardware to application layer; SDK and API interface protocols provided;

Fine medical-grade and industrial-grade image tuning and optimization services, plus functional and PCBA customization services;

Rapid response: Technical support and sales centers in East China (Suzhou) and South China (Shenzhen);

20 years of image processing experience, over 10 years as a core supplier of endoscope image processing and decoding boards, and extensive experience serving more than 100 endoscope companies.

※Application Areas:

This product series is a core component for endoscope ISP image processing. It is especially suitable for bronchoscopes, ENT endoscopes, choledochoscopes, gastroscopes, urological endoscopes, pyelosscopes, arthroscopes, spinal endoscopes, neuroendoscopes, electronic rigid endoscopes, electronic flexible endoscopes, hysteroscopes, industrial rigid endoscopes, industrial flexible endoscopes, and many other types of endoscopes.

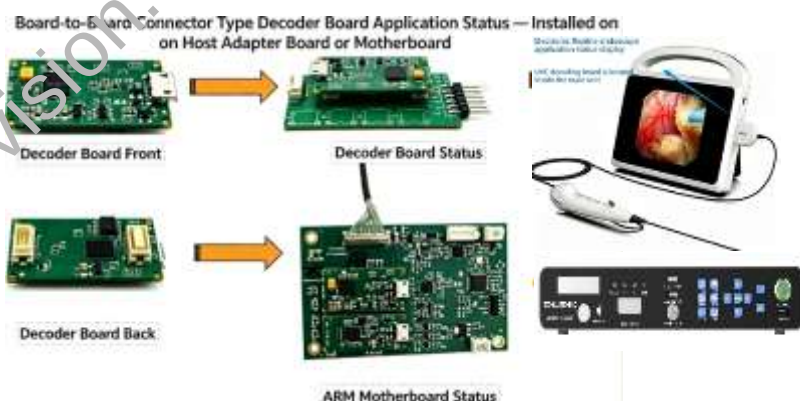
※Effect Display



※Adjustable Video Parameters:



※Application Display



※Contact Us:

Please contact us for the detailed product datasheet/specification.



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