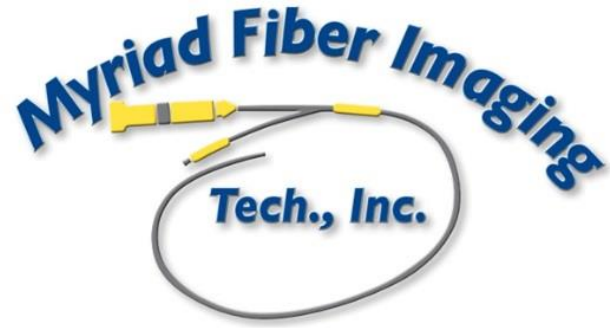


HDselect – OV6946 & OV6948 Controller

compact HD board-level camera | for remote real-time applications



- **Medical and industrial applications in flexible and rigid endoscopy, intra oral diagnosis and robotics profit from a very compact camera layout and up to full HD image quality at 1080p/60.**
- **HDselect offers highest ease of use due to hot plugging functionality between camera controller and different camera modules.**
- **HDselect is offered with common HDMI and USB3.0 interface for easy real-time transfer of HD signals.**
- **HDselect is in accordance with highest safety standards.**

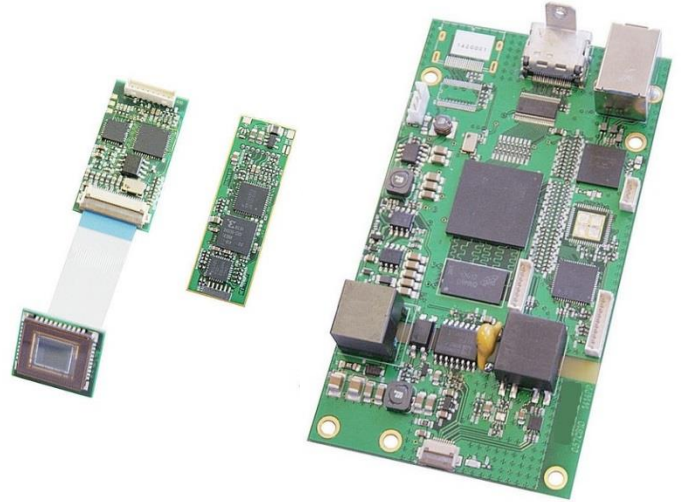


Image quality: HDselect is offered with various CMOS color image sensors standing for brilliant image quality and allowing smallest camera designs: Including A 1x1 mm image sensor (up to 30 fps, 400x400 px), .59x.59 mm image sensor (up to 30 fps, 200x200 px).

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Camera Control Specifications:

Distant image transfer: HDselect is capable of transferring video signals in 1080p/60 quality over large distances in several steps and thus allowing high flexibility of applications. First, from camera head to camera controller (max. 5 meters), and in a second step the native signals are sent from camera controller to e.g. monitor (via HDMI) or computer (via USB 3.0) for image processing, display or recording without inaccuracy due to interpolation.

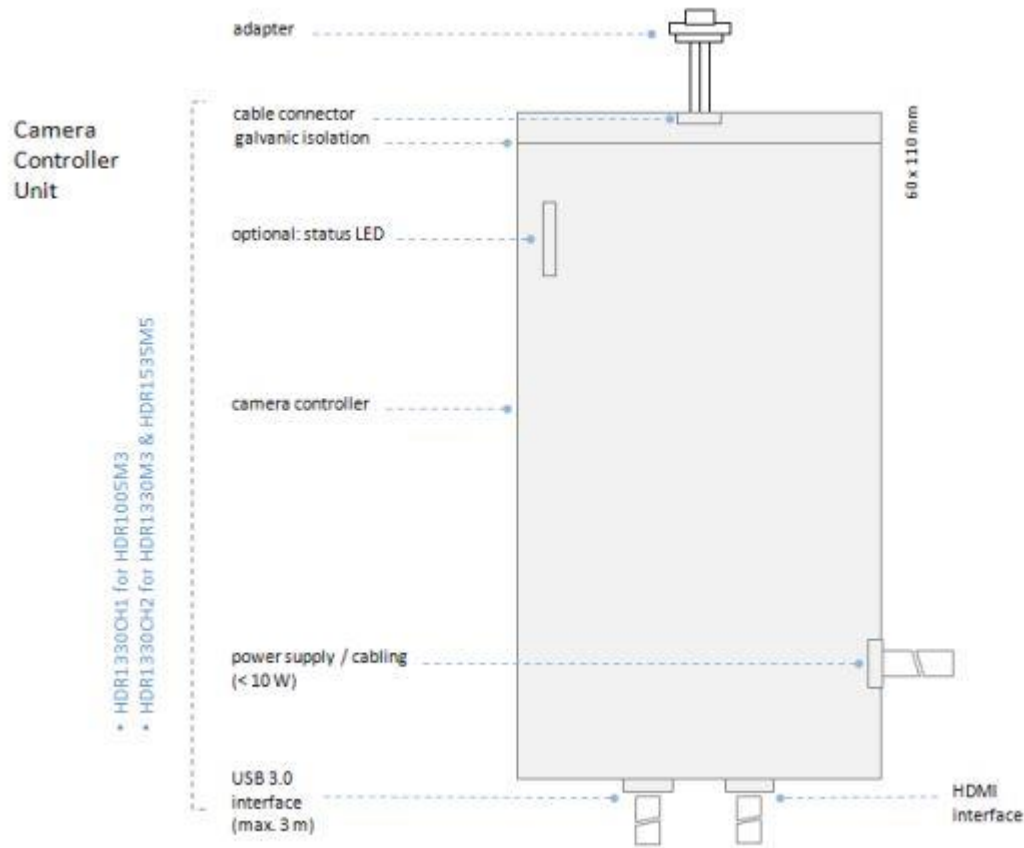
Safety: HDselect meets highest medical safety regulations as image data is transmitted safely over an electrically non-conducting border. The camera head electronics allow a separation from the camera controller because of Low Voltage Differential Signaling (LVDS) for transfer of digital image data, which facilitates a miniature cable over remote distances to the camera controller. HD Select Control board offers the patient isolation up to 4 KV it achieves the “BF” Standard.

Camera Controller Unit			
Cable Connector	4 pin (Sterilizable)	6 Pin (Sterilizable)	Hirose (or disposable)
Power Consumption	P<10 w, U=12V +/- 10%		
Power Supply Connector	3 Pin ELCO	Myriad Standard	Custom
Power LED	Optional		
Board Size	110 x 60 mm		
Interfaces: (can perform simultaneously)			
HDMI	1080p/60		
USB 3.0	Standard length 2m	Custom length up to 4m	
Software			
Direct Show Filter (Direct-X)			
Non- Specific Software	VLC Media	Amcap	Etc.
Graphic Card	Applicable for conversion of YUV to RGB > less CPU usage (core i5: less than 20%) Compatible with windows 7/8 – 32/64 bit		
Settings	Brightness, contrast, white balance, saturation, hue, horizontal flip, color control, AE settings (e.g. long exposure)		
Software Development	SDK package is available		
Software Included: NET Viewer			
Viewer with built in vectorscope applicable for easy color calibration. EEPROM read/write procedure to store configuration. Shows framerate, bad and good frames.			

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Control Board Layout:



Thank You!

Please contact Sales@myriadfiber.com for further information!

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