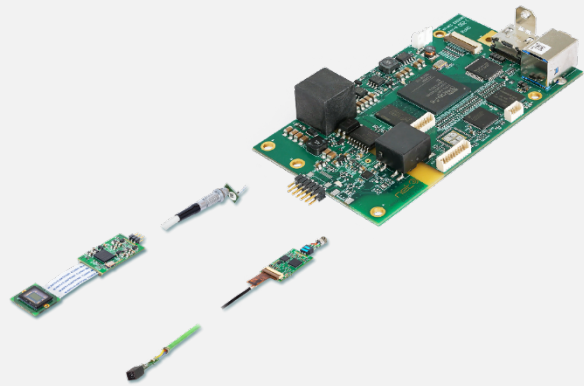


Technical Datasheet

HDselect

Vision Solution for Medical Endoscopy

HDselect is a vision solution for medical endoscopy. The special feature enabling various endoscopy applications – flexible, rigid and single-use – to be controlled with a universal CCU offers major advantages to users. Regardless of what type of image sensor the camera control unit is combined with, the result is always excellent image quality in the output format 1920x1080p60. Thanks to the plug & play feature, the surgical assistant can quickly attach various endoscopes.



1 | 3

| Type of Application | Multi-use | | | | Single-use | | |
|---|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|
| Camera Module Unit | CSH 131T-M | CSH 118C-M | CSH118F-M | HDR 3535 C5 | CSH 131T | CSH 118C | CSH 118F |
| Image sensor | OCHTA | OV6946 | OCHFA | IMX462 ² | OCHTA | OV6946 | OCHFA |
| Sensor size | 1/31" | 1/18" | 1/17.5" | 1/2.8" | 1/31" | 1/18" | 1/17.5" |
| Native resolution [pixel] | 400 x 400 | 400 x 400 | 720 x 720 | 1920 x 1080 | 400 x 400 | 400 x 400 | 720 x 720 |
| Max. display resolution [pixel] | 1080 x 1080 | 1080 x 1080 | 1080 x 1080 | 1920 x 1080 | 1080 x 1080 | 1080 x 1080 | 1080 x 1080 |
| Camera head size [mm] | 0.65 x 0.65 | 1 x 1 | 1.15 x 1.15 | 18 x 18 | 0.65 x 0.65 | 1 x 1 | 1.15 x 1.15 |
| Max. cable length: head to handpiece ³ | 2 m | 2 m | 2 m | 50 mm | 2 m | 2 m | 2 m |
| Type | CMOS | | | | | | |
| Colour depth (HDMI-out) | 8 bit | | | | | | |
| Frame rate (HDMI-out) [fps] | 60 | | | | | | |
| Board size [mm] | 45 x 14.5 | 45 x 14.5 | 8.4 x 15 | 34 x 18 | 8.4 x 15 | 8.4 x 15 | 8.4 x 15 |
| Operating temperature | 0 to 40°C | | | | | | |

- 1 available with LED driver for continuous exposure setting
- 2 former image sensor IMX222 replaced by IMX462 as of Q3/2023
- 3 see drawing on page 3 for detailed information

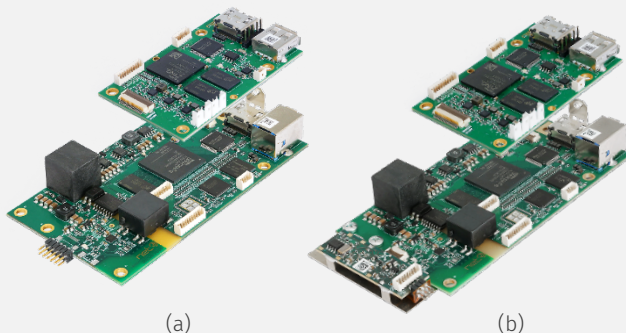
HDselect

Vision Solution for Medical Endoscopy

Camera Control Unit (CCU) and optional Recording Module

The images on the right show the recoding module on top. In regard of the endoscopic application two CCU types are available:

- (a) CCU for multi-use applications
- (b) CCU for single-use applications with integrated Main PCB



2 | 3

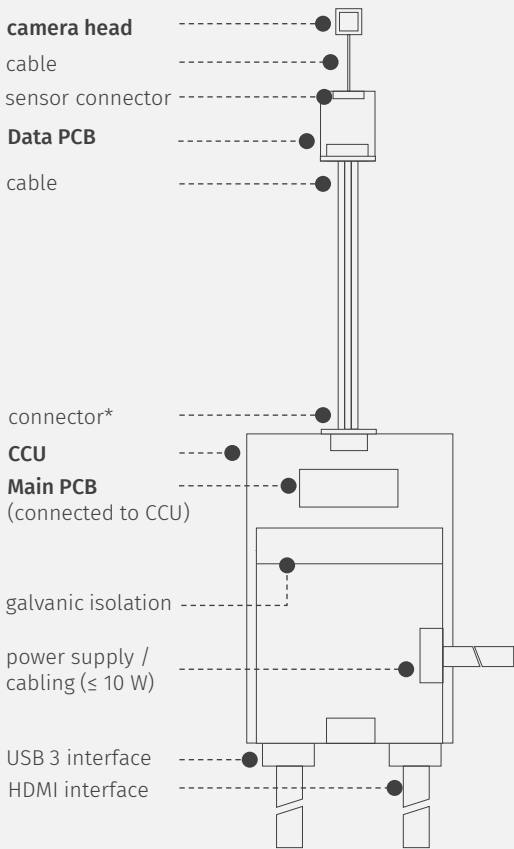
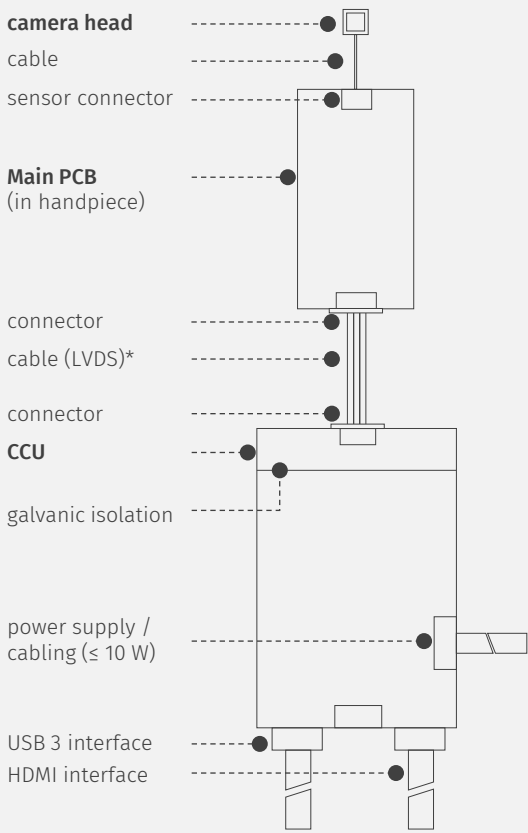
| Type of Application | | Multi-use | | | | Single-use | | |
|--|---|------------|------------|-------------|---|------------|----------|--|
| Camera Module Unit | CSH 131T-M | CSH 118C-M | CSH 118F-M | HDR 3535 C5 | CSH 131T | CSH 118C | CSH 118F | |
| Cable from Camera Control Unit (CCU) to Main PCB | | | | | Cable from Main PCB to Data PCB | | | |
| Max. length [m] | 3 | 3 | 3 | 5 | 2 | 2 | 2 | |
| Diameter [mm] | 6.2 | 6.2 | 6.2 | 6.2 | 3 | 3 | 3 | |
| | | | | | Size of Data PCB | | | |
| | | | | | 15 x 8.4 mm | | | |
| Camera Control Unit | HDR 1330 CHx | | | | HDR 1330 CHx DP | | | |
| Cable connector | 6 pin (Allied Vision Finning specific configuration: power, GND, I2C, LVDS, program) | | | | | | | |
| Patient safety | galvanic isolation (Type BF-classified /Body Floating) | | | | | | | |
| Power consumption | P < 10 W, U = 12 V ±10 % | | | | | | | |
| Power supply connector | 3 pin ELCO, Allied Vision Finning Standard | | | | | | | |
| Power LED | optional | | | | | | | |
| Board size [mm] | 110 x 60 | | | | | | | |
| Interfaces | | | | | | | | |
| HDMI connector | 1080p60 (DVI signal) | | | | | | | |
| USB | USB 3.2 Gen1 | | | | | | | |
| Software | | | | | Recording Module HDR1330 REC | | | |
| Direct Show Filter (Direct-X) | For use of camera in non-Allied Vision Finning specific software, e.g. VLC media player, amcap | | | | Board size [mm] 45 x 73 | | | |
| Operating System | Compatible with Windows 32/64 bit | | | | Patient safety Type BF-classified /Body Floating | | | |
| Viewer | - Live video display - Video recording and capture function - Customization of logo on request | | | | Power P = 3 W, U = 12 V ±10 % | | | |
| Settings | Brightness, contrast, white balance, saturation, hue, horizontal flip, color control, AE settings (e.g. exposure) | | | | Interfaces HDMI 1080p60 (DVI signal) USB 2.0 host | | | |
| | | | | | Features Recording in 1080p30 AVI format, image capture | | | |

HDselect

Vision Solution for Medical Endoscopy

Drawing

| Type of Application | Multi-use | Single-use |
|---------------------|-----------|------------|
|---------------------|-----------|------------|



*optional

Upon request: LED driver, keyboard, EMI approved housing.

Drawings and images not to scale.

Please note that all data and illustrations are not binding and subject to error, change and omissions without notice.