HDselect

Vision Solution for Medical Endoscopy



MEDICAL VISION

Technical Data

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Type of Application	Multi-use				Single-use	
Camera Module Unit	CSH 136C-M	CSH 118C-M	HDR 1320 M3	HDR 1535 M5	CSH 136C	CSH 118C
Sensor size	1/36"	1/18"	1/9"	1/2.8"	1/36"	1/18"
Native resolution [pixel]	200 x 200	400 x 400	1280 x 720	1920 x 1080	200 x 200	400 x 400
Max. display resolution [pixel]	1080 x 1080	1080 x 1080	1280 x 720	1920 x 1080	1080 x 1080	1080 x 1080
Camera head size [mm]	0.65 x 0.65	1 x 1	3.2 x 3	18 x 18	0.65 x 0.65	1 x 1
Max. cable length: data PCB or main PCB to head	2 m	2 m	3 m	50 mm	2 m	2 m
Туре	CMOS					
Color depth (HDMI-out)	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit
Frame rate [fps]	60	60	60	60	60	60
Board size [mm]	45 x 14.5	45 x 14.5	34 x 18	34 x 18	45 x 14.5	45 x 14.5
Operating temperature	0 to 40°C					
Cable from Camera Controller Unit (CCU) to Main PCB					Cable from Main PCB to Data PCB	
Max. length [m]	3	3	5	5	3	3
Diameter [mm]	3	3	6.8	6.8	3	3
					Size of Data PCB	
					15 x 8.4 mm	
Camera Controller Unit	HDR 1330 CH2				HDR 1330 CH2	. DP
Cable connector	6 pin (NET sp	ecific configura	tion: power. GND.	, I2C, LVDS, progra	m)	
Patient safety	galvanic isolation (Type BF-classified /Body Floating)					
Power consumption	P < 10 W, U = 12 V ±10 %					
Power supply connector	3 pin ELCO, NET Standard					
Power LED	optional					
Board size [mm]	110 x 60					
Interfaces						
HDMI	1080p/60					
USB 3.0	up to 3 m					
Software						
Direct Show Filter (Direct-X)	For use of camera in non-NET specific software, e.g. VLC media player, amcap					
Graphic card	Applicable for conversion of YUV to RGB > less CPU usage (Core i5: less than 20%). Compatible with Windows 7/8/10 - 32/64 bit.					
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.					
	Brightness, contrast, white balance, saturation, hue, horizontal flip, color control, AE settings (elong exposure)					

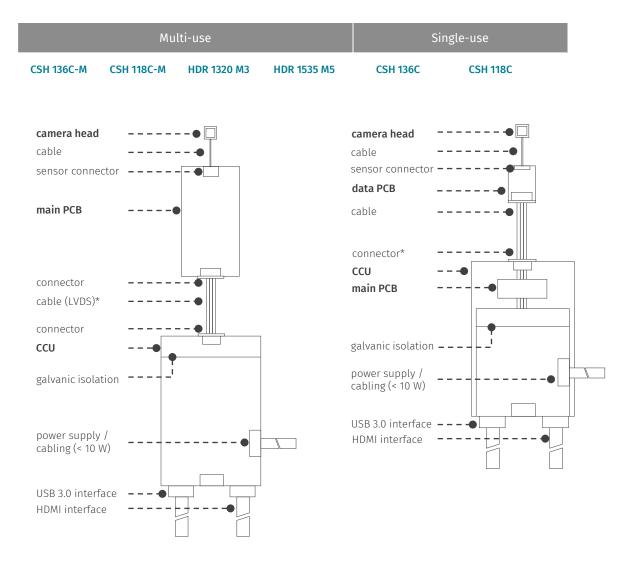
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Layout



^{*}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 are subject to error, change and omissions without notice.