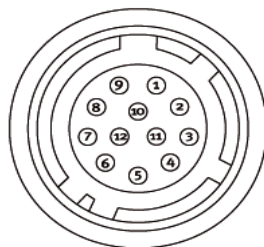
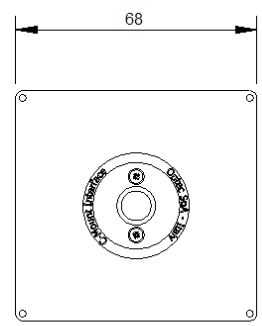
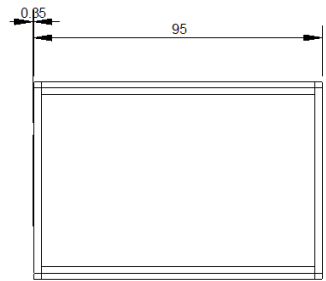
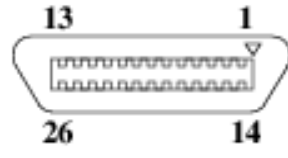
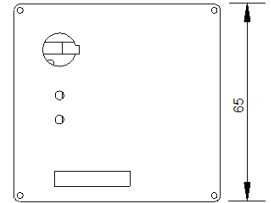
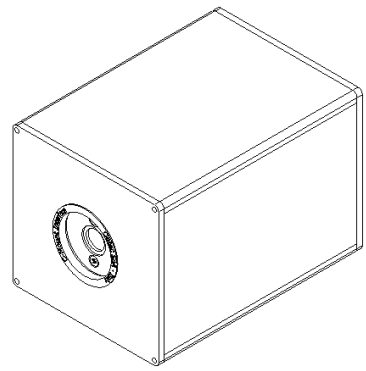
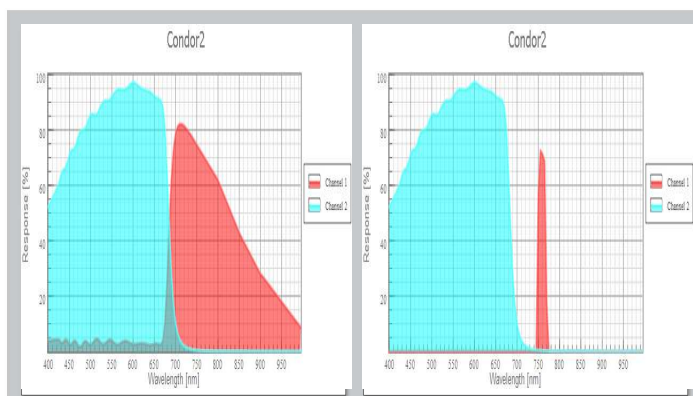




Specifications		Connector	Dimensions																																																					
Sensor	ICX 618	DC-In / Trigger  Hirose HR10A-10P-12S	 																																																					
Active area	1/4" sensor 4.46 mm(H) x 3.80 mm (V)																																																							
Pixel size	5.6µm																																																							
Pixel clock	25 MHz																																																							
Active pixels	640 x 494																																																							
Frame rate	60 Fps full resolution																																																							
Channels	Channel 1: 400 – 670 nm Channel 2: 670 – 1000 nm																																																							
Alignment accuracy	Mechanically better than 1/4 th of a pixel																																																							
Dynamic range	>56 dB																																																							
Bit depths	8 bit 2 channel, 12 bit 2 channel																																																							
Gain	0 to 36 dB analog gain																																																							
Video output	Camera Link / GigE Vision			Camera Link Interface 26 pin MDR connector 3M 10226-1A10JL  <table border="1"> <thead> <tr> <th>Pin</th> <th>Signal</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>GND</td><td>GROUND</td></tr> <tr><td>2</td><td>Vin</td><td>+15-24V</td></tr> <tr><td>3</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>4</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>5</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>6</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>7</td><td>Trigger in</td><td>Input trigger</td></tr> <tr><td>8</td><td>Trigger out</td><td>Output trigger</td></tr> <tr><td>9</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>10</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>11</td><td>DNC</td><td>Do not connect</td></tr> <tr><td>12</td><td>DNC</td><td>Do not connect</td></tr> </tbody> </table>	Pin	Signal	Function	1	GND	GROUND	2	Vin	+15-24V	3	DNC	Do not connect	4	DNC	Do not connect	5	DNC	Do not connect	6	DNC	Do not connect	7	Trigger in	Input trigger	8	Trigger out	Output trigger	9	DNC	Do not connect	10	DNC	Do not connect	11	DNC	Do not connect	12	DNC	Do not connect													
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Trigger modes	Internal and external source (on Camera Link and Hirose connectors)																																																							
Synchronization	All sensor clocks synchronized. Smart trigger unit for advanced trigger schemes																																																							
Electronic shutter	Synchronized exposure with channel independent duration. (1 µs to 1s)																																																							
Control interface	All commands through CameraLink serial interface or GenICam																																																							
Lookup tables	Lookup tables available in 8bit mode, full access to table entries. Table data programmed in flash memory (on request)																																																							
External control capability *)Selectable per channel	Gain*, exposure*, lookup tables*, region of interest, image bit depth, trigger source																																																							
Weight	350 grams excluding lens	<table border="1"> <thead> <tr> <th>Pin</th> <th>Signal</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>14</td><td>GND</td></tr> <tr><td>2</td><td>15</td><td>X0-/X0+</td><td>CL Data</td></tr> <tr><td>3</td><td>16</td><td>X1-/X1+</td><td>CL Data</td></tr> <tr><td>4</td><td>17</td><td>X2-/X2+</td><td>CL Data</td></tr> <tr><td>5</td><td>18</td><td>Xclk-/Xclk+</td><td>CL Clk</td></tr> <tr><td>6</td><td>19</td><td>X3-/X3+</td><td>CL Data</td></tr> <tr><td>7</td><td>20</td><td>Ser TC+/Ser TC-</td><td>Serial in</td></tr> <tr><td>8</td><td>21</td><td>Ser TFG-/Ser TFG+</td><td>Serial out</td></tr> <tr><td>9</td><td>22</td><td>CC1-/CC1+</td><td></td></tr> <tr><td>10</td><td>23</td><td>CC2-/CC2-</td><td>Not Used</td></tr> <tr><td>11</td><td>24</td><td>CC3-/CC3+</td><td>Not Used</td></tr> <tr><td>12</td><td>25</td><td>CC4-/CC4-</td><td>Not Used</td></tr> <tr><td>13</td><td>26</td><td>GND</td><td></td></tr> </tbody> </table>	Pin	Signal	Function	1	14	GND	2	15	X0-/X0+	CL Data	3	16	X1-/X1+	CL Data	4	17	X2-/X2+	CL Data	5	18	Xclk-/Xclk+	CL Clk	6	19	X3-/X3+	CL Data	7	20	Ser TC+/Ser TC-	Serial in	8	21	Ser TFG-/Ser TFG+	Serial out	9	22	CC1-/CC1+		10	23	CC2-/CC2-	Not Used	11	24	CC3-/CC3+	Not Used	12	25	CC4-/CC4-	Not Used	13	26	GND	
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Dimensions	68 x 95 x 65 mm																																																							
Lens mount options	C-Mount custom lens																																																							
Operating temperature	-20 - +50 °C																																																							
Regulations	CE (EN 61000-6-2 EN 61000-6-3), FCC Part 15 class B, RoHS/WEE																																																							
Back focal length	≥ 17.52 mm in air																																																							
Power	18-24V DC +/-10%, 6W																																																							
Humidity	20-90% Non condensing																																																							
		 																																																						



Examples

1. Original prism dichroic coating
2. Optional narrow band filter in channel 2

Filters can be customized on user requirements