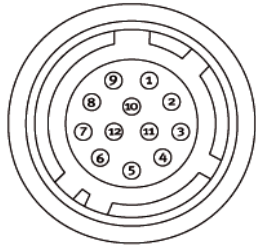
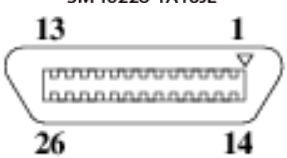
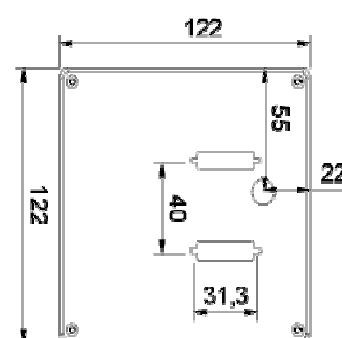
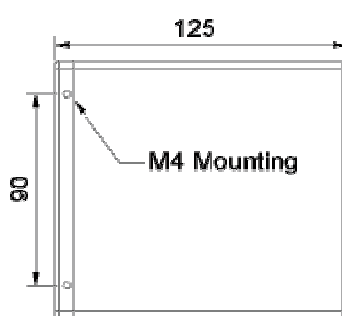
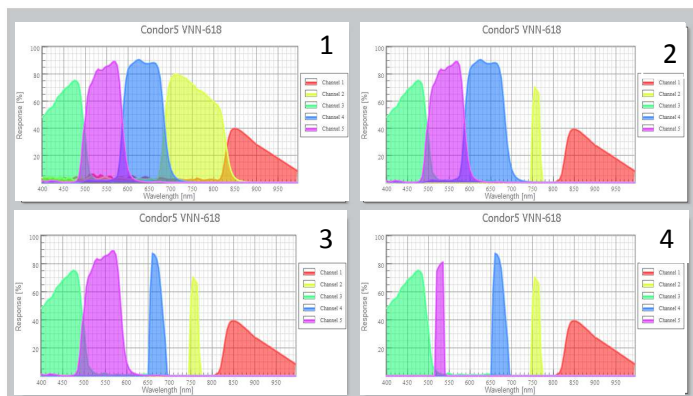




Specifications		Connector	Dimensions																																																																																													
Sensor	ICX 618	<p style="text-align: center;">DC-In / Trigger</p>  <p style="text-align: center;">Hirose HR10A-10P-12S</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>Signal</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> <p style="text-align: center;">Camera Link Interface 26 pin MDR connector 3M 10226-1A10JL</p>  <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	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	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		 <p style="text-align: center;">Back view. All dimensions in mm</p>  <p style="text-align: center;">Side view. All dimensions in mm</p>
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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 – 500 nm Channel 2: 500 – 590 nm Channel 3: 590 – 670 nm Channel 4: 670 – 850 nm Channel 5: 850 –1000 nm																																																																																															
Alignment accuracy	Better than 1/4 th of a pixel																																																																																															
Dynamic range	>56 dB																																																																																															
Bit depths	8 bit 5 channel, 12 bit 5 channel																																																																																															
Gain	0 to 36 dB analog gain																																																																																															
Video output	CameraLink / GigE Vision																																																																																															
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 Camera Link serial interface or GigE Vision																																																																																															
Lookup tables	Lookup tables available in 8bit mode, full access to table entries. Table data programmed in flash memory (on request)																																																																																															
External control capability *)	Gain*, exposure*, lookup tables*, region of interest, image bit depth, trigger source																																																																																															
Weight	1485 grams excluding lens																																																																																															
Dimensions	122 x 122 x 125 mm																																																																																															
Lens mount options	C-Mount custom lens																																																																																															
Operating temperature	-40 - +80 °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 4
3. Optional narrow band filter in channel 3 and 4
4. Optional narrow band filter in channel 2, 3 and 4

Filters can be customized on user requirements