



| i.Cam – Monochrom             | Unit                           | i.CamvM     | i.CamxM     | i.CamhQM       | i.CamhrM        |
|-------------------------------|--------------------------------|-------------|-------------|----------------|-----------------|
| CCD Image Sensor              |                                | ICX084AL    | ICX204AL    | ICX285AL       | ICX274AL        |
| CCD Sensor Type               |                                | IT          | IT          | IT             | IT              |
| CCD Manufacturer              |                                | Sony        | Sony        | Sony           | Sony            |
| Pixel Size, H x V             | µm                             | 7,4 x 7,4   | 4,65 x 4,65 | 6,45x 6,45     | 4,4 x 4,4       |
| Active Area, H x V            | mm                             | 4,74 x 3,55 | 4,76 x 3,57 | 9 x 6,7        | 7,16 x 5,44     |
| Image Diagonal                | mm                             | 5,92        | 5,95        | 11,2           | 9               |
| Aspect Ratio, width : height  |                                | 4 : 3       | 4 : 3       | 4 : 3          | 4 : 3           |
| Pixelnumber, columns x lines  |                                | 640 x 480   | 1024 x 768  | 1392 x 1040    | 1628 x 1236     |
| Total Pixelnumber             |                                | 307,200     | 786,432     | 1,447,680      | 2,012,208       |
| Digitalization,               | bit                            | 10          | 10          | 12             | 8               |
| Shutter / Integration time    | ms                             | 0.06 - 4000 | 0.06 - 4000 | 0.02 - 4000    | 0.02 - 4000     |
| Full Well Capacity FWC, Pixel | e <sup>-</sup>                 | 22,000      | 12,000      | 18,000         | 10,000          |
| Readout Noise SNR, rms        | e <sup>-</sup>                 | 18          | 10          | 15             | 9               |
| Dynamic Range                 |                                | 1,200 : 1   | 1,200 : 1   | 1,200 : 1      | 1,100 : 1       |
| Dark Current, pixel, @15°C    | e <sup>-</sup> /s              | < 3         | < 3         | < 2            | < 2             |
| FWC / Dark Current, @25°C     | s                              | 1,410       | 4,000       | 9,000          | 5,000           |
| Quantum Efficiency, QE max    | %                              | 40          | 40          | 65             | 40              |
| Sensitivity, photons SNR=1    |                                | 45          | 25          | 23             | 22,5            |
| Total Electron Capacity, TEC  | 10 <sup>6</sup> e <sup>-</sup> | 6,700       | 9,400       | 26,000         | 20,100          |
| Total Noise Electrons, TNC    | 10 <sup>6</sup> e <sup>-</sup> | 5,5         | 7,86        | 21,7           | 18,1            |
| Binning                       |                                | -           | -           | hor., vert.    | hor., vert.     |
| Antiblooming, x FWC           |                                | > 200       | > 200       | > 200          | > 200           |
| Frame Rate:                   | Hz                             | 30          | 15          | 11<br>ROI > 60 | 13<br>ROI > 200 |
| Price                         | Euro                           | 1,690       | 1,950       | 3,950          | 3,950           |

Price includes Camera, FireWire-Adapter, 4.5m FireWire-Cable, WinSISlight.