



<b>SIS1-System</b>	Unit	<b>t253EM</b>	<b>t285EM</b>	<b>s285</b>	<b>s249</b>	<b>p18</b>	<b>p1010</b>	<b>p3020</b>	<b>m30oe</b>	<b>m30bi</b>	<b>m4720bi</b>	<b>m4720ai</b>
CCD Image Sensor		TI253	TI285	ICX285AL	ICX249AL	FT18	FTT1010	FTF3020M	CCD30-11	CCD30-11	CCD47-20bi	CCD47-20ai
CCD Sensor Type		FT	FT	IT	IT	FT	FT	FF	FF	FF	FT	FT
CCD Manufacturer		TI	TI	Sony	Sony	Philips	Philips	Philips	E2V	E2V	E2V	E2V
Pixel Size	µm	7.4 x 7.4	8 x 8	6.45 x 6.45	8.6 x 16.6	7.5 x 7.5	12 x 12	12 x 12	26 x 26	26 x 26	13 x 13	13 x 13
Active Area, H x V	mm	4.8 x 3,67	8 x 8	9 x 6.7	6.4 x 4.8	7.7 x 7.7	12.3 x 12.3	36.9 x 24.6	26.6 x 6.7	26.6 x 6.7	13.3 x 13.3	13.3 x 13.3
Image Diagonal	mm	6.1	11.35	11.2	8.1	10.9	17.4	44.34	27.43	27.43	18.82	18.82
Aspect Ratio, width : height		4 : 3	1 : 1	4 : 3	4 : 3	1 : 1	1 : 1	3 : 2	4 : 1	4 : 1	1 : 1	1 : 1
Pixelnumber, col. x lines		656x496	1004x1002	1392x1040	752x290	1024x1024	1024x1024	3072x2048	1024x256	1024x256	1024x1024	1024x1024
Pixelnumber, Interlace Mode						1024x2048	1024x2048	3072x4096			1024x2048	1024x2048
Full Well Capacity, pixel	e <sup>-</sup>	44 000	40 000	18 000	30 000	120 000	650 000	650 000	300 000	500 000	100 000	100 000
Read-out Noise, rms	e <sup>-</sup>	0.5 / 25	0.5 / 20	2.5	4.5	4	12	12	7	7	8	8
Dynamic Range	d	1,700 : 1	2,000 : 1	7,200 : 1	6,700 : 1	30,000 : 1	54,000 : 1	54,000 : 1	43,000 : 1	55,000 : 1	12,500 : 1	12,500 : 1
Dark Current, pixel, 15°C	e <sup>-</sup> /s	3.5	4	2	9	85	40	40	140	550	140	55
FW / Dark Current, 25°C	s	12.570	10.000	9 000	3 300	1 410	11 000	16 000	2 140	910	714	1 818
Quantum Efficiency, QE	%	40	67	69	71	32	32	32	53	85	92	45
Sensitivity, photons SNR=1		1.25	0.75	3.6	7.7	12.5	37.5	37.5	13.2	10.5	8.7	3.6
Total Electron Capacity, TEC	10 <sup>9</sup> e <sup>-</sup>	14.3	40.2	25	6.6	125	680	4 090	78	130	105	25
Total Noise Electrons, TNC	10 <sup>6</sup> e <sup>-</sup>	0.2	0.5	2.9	1.5	4.2	12.5	75	1.8	2.3	8.4	2.9
Binning		hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.	hor., vert.
Anti-Blooming x FW		>200	>200	>200	>200	>200	>200	>200	1	1	-	1
Frame Rate: 1MHz(18bit)/ 3MHz(14bit)/ 6MHz(14bit)	Hz	-/ 8.7/ 17.5	-/ 2.3/ 5.5	-/ 2/ 4	-/ 12/ 24	0.9/ 2.7/ 5.4	0.9/ 2.7/ 5.4	0.15/ 0.4/ 0.8	3.5/ 10/ 20	3.5/ 10/ 20	0.9/ 2.7/ -	0.9/ 2.7/ -
Options		Framing 4 MHz	Framing 1 MHz	Framing 0.3 MHz, color	color	Framing 0.8 MHz, fiberoptic	Framing 0.8 MHz, fiberoptic	color	fiberoptic			
<b>Price, standard</b>	€	<b>8,900</b>	<b>13,900</b>	<b>7,900</b>	<b>7,200</b>	<b>9,900</b>	<b>12,800</b>	<b>15,900</b>	<b>13,500</b>	<b>17,900</b>	<b>17,900</b>	<b>15,900</b>