

Freedom of Choice

Red: Front-illuminated			Black: Interline Transfer					Blue: Back-illuminated (thinned)				
CCD					Pixel	Array Size (mm)				Video		
Source	CCD	Cameras	Pixels X	Pixels Y	Microns	X	Y	Area (mm ²)	Diag mm	Size ¹	Pixels	Full Well
ON Semi	KAF-50100	ML	8176	6132	6	49.1	36.8	1804.9	61.3	3.8	50135232	40.3K
ON Semi	KAF-16801	PL,ML	4096	4096	9	36.9	36.9	1359.0	52.1	3.3	16777216	100K
ON Semi	KAF-16803	PL,ML	4096	4096	9	36.9	36.9	1359.0	52.1	3.3	16777216	100K
ON Semi	KAF-16200	ML	4500	3600	6	27.0	21.6	583.2	34.6	2.2	16200000	40K
ON Semi	KAF-09000	PL,ML	3056	3056	12	36.7	36.7	1344.8	51.9	3.2	9339136	110K
ON Semi	KAF-8300	PL,ML	3326	2504	5.4	18.0	13.5	242.9	22.5	1.4	8328304	25.5K
ON Semi	KAF-6303	ML	3072	2048	9	27.6	18.4	509.6	33.2	2.1	6291456	100K
ON Semi	KAF-4320	DC	2048	2048	24	49.2	49.2	2415.9	69.5	4.3	4194304	500K
ON Semi	KAF-3200	ML	2184	1472	6.8	14.9	10.0	148.7	17.9	1.1	3214848	55K
ON Semi	KAF-1603	ML	1536	1024	9	13.8	9.2	127.4	16.6	1.0	1572864	100K
ON Semi	KAF-1001	PL,ML	1024	1024	24	24.6	24.6	604.0	34.8	2.2	1048576	500K
ON Semi	KAF-402	ML	768	512	9	6.9	4.6	31.9	8.3	0.5	393216	100K
e2v	CCD30-11	ML	1024	256	26	26.6	6.7	177.2	27.4	1.7	262144	300K
ON Semi	KAI-29050	ML	6576	4384	5.5	36.2	24.1	872.1	43.5	2.7	28829184	20K
ON Semi	KAI-16050	PL,ML	4896	3264	5.5	26.9	18.0	483.4	32.4	2.0	15980544	20K
ON Semi	KAI-16000	PL,ML	4872	3248	7.4	36.1	24.0	866.5	43.3	2.7	15824256	30K
ON Semi	KAI-16070	ML	4864	3232	7.4	36.0	23.9	860.9	43.2	2.7	15720448	44K
Sony	ICX834	ML	4242	2830	3.1	13.2	8.8	115.4	15.8	1.0	12004860	10K
ON Semi	KAI-11002	PL,ML	4008	2672	9	36.1	24.0	867.5	43.4	2.7	10709376	60K
Sony	ICX814	ML	3380	2704	3.69	12.5	10.0	124.4	16.0	1.0	9139520	15K
ON Semi	KAI-08670	ML	3600	2400	7.4	26.6	17.8	473.1	32.0	2.0	8640000	44K
ON Semi	KAI-08050	ML	3296	2472	5.5	18.1	13.6	246.5	22.7	1.4	8147712	20K
Sony	ICX694	ML	2750	2200	4.54	12.5	10.0	124.7	16.0	1.0	6050000	20K
ON Semi	KAI-04070	ML	2048	2048	7.4	15.2	15.2	229.7	21.4	1.3	4194304	44K
ON Semi	KAI-04022	ML	2048	2048	7.4	15.2	15.2	229.7	21.4	1.3	4194304	40K
ON Semi	KAI-04050	ML	2336	1752	5.5	12.8	9.6	123.8	16.1	1.0	4092672	20K
Sony	ICX674	ML	1940	1460	4.54	8.8	6.6	58.4	11.0	0.7	2832400	20K
ON Semi	KAI-02150	ML	1920	1080	5.5	10.6	5.9	62.7	12.1	0.8	2073600	20K
ON Semi	KAI-2020	ML	1600	1200	7.4	11.8	8.9	105.1	14.8	0.9	1920000	40K
ON Semi	KAI-02050	ML	1600	1200	5.5	8.8	6.6	58.1	11.0	0.7	1920000	20K
Sony	ICX285	ML	1360	1024	6.45	8.8	6.6	57.9	11.0	0.7	1392640	18K
e2v	CCD230-84 ²	DC	4096	4096	15	61.4	61.4	3774.9	86.9	5.4	16777216	100K
e2v	CCD230-42	PL,ML	2048	2048	15	30.7	30.7	943.7	43.4	2.7	4194304	150K
e2v	CCD42-40	PL,ML	2048	2048	13.5	27.6	27.6	764.4	39.1	2.4	4194304	100K
e2v	CCD47-20	PL,ML	1024	1024	13	13.3	13.3	177.2	18.8	1.2	1048576	100K
e2v	CCD47-10	PL,ML	1024	1024	13	13.3	13.3	177.2	18.8	1.2	1048576	100K
e2v	CCD42-10	PL,ML	2048	512	13.5	27.6	6.9	191.1	28.5	1.8	1048576	100K
Hamamatsu	S10140-1109	ML	2048	506	12	24.6	6.1	149.2	25.3	1.6	1036288	75K
Hamamatsu	S10140-1009	ML	1024	506	12	12.3	6.1	74.6	13.7	0.9	518144	75K
Hamamatsu	S10140-1108	ML	2048	250	12	24.6	3.0	73.7	24.8	1.5	512000	75K
e2v	CCD77-00	PL,ML	512	512	24	12.3	12.3	151.0	17.4	1.1	262144	300K
Hamamatsu	S10140-1008	ML	1024	250	12	12.3	3.0	36.9	12.6	0.8	256000	75K
Hamamatsu	S10140-1107	ML	2048	122	12	24.6	1.5	36.0	24.6	1.5	249856	75K
Hamamatsu	S10140-1007	ML	1024	122	12	12.3	1.5	18.0	12.4	0.8	124928	75K

¹ Video size: in the world of video, a diagonal of 16mm is called a 1" sensor.

² In development in Cobalt™ Series

CCDs that are supported in MicroLine cameras (ML) are also supported in Hyperion cameras. However, Hyperions only support 25 & 43mm shutters.



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