

Freedom of Choice

Sensors Supported in FLI Cameras

Red = Front-Illuminated

Black = Interline Transfer

Blue = Back-illuminated (Thinned)

Sensor Source	Sensor	Camera	Pixels X	Pixels Y	Pixel microns	Array Size (mm)		Area (mm ²)	Diag (mm)	Video Size ¹	Pixels	Full Well
						X	Y					
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
GPixel	GSense4040	KL	4096	4096	9	36.9	36.9	1359.0	52.1	3.3	16777216	70K
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
GPixel	GSense400	KL	2048	2048	11	22.5	22.5	507.5	31.9	2.4	4194304	120K
GPixel	GSense2020	KL	2048	2048	6.5	13.3	13.3	177.2	18.8	1.2	4194304	45K
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
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-08051	ML	3296	2472	5.5	18.1	13.6	246.5	22.7	1.4	8147712	20K
Sony	ICX695	ML	2750	2200	4.54	12.5	10.0	124.7	16.0	1.0	6050000	17K
ON Semi	KAI-04070	ML	2048	2048	7.4	15.2	15.2	229.7	21.4	1.3	4194304	44K
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-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	ICX825	ML	1360	1024	6.45	8.8	6.6	57.9	11.0	0.7	1392640	21K
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
GPixel	GSense400	KL	2048	2048	11	22.5	22.5	507.5	31.9	2.0	4194304	92K
GPixel	GSense2020	KL	2048	2048	6.5	13.3	13.3	177.2	18.8	1.2	4194304	45K
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
e2v	CCD77-00	PL,ML	512	512	24	12.3	12.3	151.0	17.4	1.1	262144	300K

GPixel Sensors are CMOS; all other sensors are CCDs.

CCDs supported in the MicroLine cameras (ML) are also supported in Hyperion cameras. However, Hyperions only support 25 and 45mm shutters.

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

² In development in Cobalt™ Series cameras.



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