

# Sensors

## Sensors Supported in FLI Cameras

Sensor Source	Sensor	Sensor Type	Pixels X	Pixels Y	Pixel microns	Array Size (mm)		Area (mm <sup>2</sup> )	Diag (mm)	Video Size <sup>1</sup>	Pixels	Full Well
						X	Y					
<b>Front-illuminated Sensors</b>												
GPixel	GSense6060	CMOS	6144	6144	10	61.4	61.4	3775	86.9	5.4	37.7M	135K
GPixel	GSense4040	CMOS	4096	4096	9	36.9	36.9	1359.0	52.1	3.3	16.7M	70K
GPixel	GSense400	CMOS	2048	2048	11	22.5	22.5	507.5	31.9	2.4	4.2M	120K
<b>Interline Transfer CCDs</b>												
Sony	ICX695	CCD	2750	2200	4.54	12.5	10.0	124.7	16.0	1.0	6.0M	17K
Sony	ICX285/825	CCD	1360	1024	6.45	8.8	6.6	57.9	11.0	0.7	1.4M	21K
<b>Back-illuminated Sensors</b>												
GPixel	GSense6060	CMOS	6144	6200	10	61.44	61.44	3775	86.9	5.4	37.7M	102K
e2v	CCD230-84	CCD	4096	4096	15	61.4	61.4	3775	86.9	5.4	16.8M	150K
e2v	CCD230-42	CCD	2048	2048	15	30.7	30.7	943.7	43.4	2.7	4.2M	150K
e2v	CCD42-40	CCD	2048	2048	13.5	27.6	27.6	764.4	39.1	2.4	4.2M	100K
GPixel	GSense400	CMOS	2048	2048	11	22.5	22.5	507.5	31.9	2.0	4.2M	92K
e2v	CCD47-20	CCD	1024	1024	13	13.3	13.3	177.2	18.8	1.2	1048K	100K
e2v	CCD47-10	CCD	1024	1024	13	13.3	13.3	177.2	18.8	1.2	1048K	100K

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

### Front-illuminated Sensors

GSense6060  
6144 x 6144  
10 microns  
sCMOS

GSense400  
2048 x 2048  
11 microns  
sCMOS

GSense4040  
4096 x 4096  
9 microns  
sCMOS

### Back-illuminated Sensors

GSense400  
2048 x 2048  
11 microns  
sCMOS

CCD230-42  
2048 x 2048  
15 microns

CCD42-40  
2048 x 2048  
13.5 microns

CCD47-10  
1024 x 1024  
13 microns

GSense6060  
6144 x 6144  
10 microns  
sCMOS

CCD230-84  
4096 x 4096  
15 microns  
CCD

### Interline Transfer CCDs

ICX695  
2750 x 2200  
4.54 microns

ICX285  
1360 x 1024  
6.45 microns

Sensors are shown actual size.