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COMPANY

Gpixel delivers off-the-shelf and semi – or fully-customized CMOS image sensors that meet the demands of scientific, industrial, professional and medical imaging markets. At Gpixel our seasoned, multidisciplinary team of experts are passionate about pushing the boundaries of image sensing technologies. As a proven designer and supplier of advanced CMOS image sensors, we develop solutions that meet the exacting demands of our target markets with the added benefits of volume production.

Founded in 2012 by experienced CMOS image sensor designers and semiconductor physicists, Gpixel works in close cooperation with our customers and business partners to produce advanced CMOS image sensors for use all over the world. From our offices in Changchun (headquarters) ,Hangzhou and Dalian , China, Antwerp, Belgium (European design center) and Tokyo, Japan (Japanese design center) we are committed to delivering innovative and specialized high-end CMOS image sensor solutions to our global customer base.



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Advanced CMOS Image Sensors

Gpixel Product Guide



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		RESOLUTION (PIXELS)	RESOLUTION (H x V)	PIXEL SIZE (µm²)	OPTICAL FORMAT	GLOBAL ROLLING TDI	8-BIT	10-BIT	11-BIT	12-BIT	14-BIT	16-BIT	MIPI (SUB)-LVDS	LANES	MAX. FPS	MAX. DATA RATE (Gbps)	MIN. DARK NOISE (e ⁻)	FWC (ke ⁻)	MAX. DYNAMIC RANGE (dB)	SNR MAX (dB)	QE@ 500 nm	LGA	P-GA	UPGA	CLCC	LCC	COB	PINS	PACKAGE SIZE (mm)	CHROMA	POWER (W)
GMAX SERIES																															
GMAX2505	NORMAL SPEED	5.0 MP	2600 x 2160	2.5 x 2.5	1/2"	•		•					•	10	121	8.2	1.8	6.7	65.5	38.2	65.5%	•						226	19.0 x 17.5		0.6
GMAX2505	HIGH SPEED	5.0 MP	2600 x 2160	2.5 x 2.5	1/2"	•	•						•	20	290	19.2	3.9	6.7	62.1	38.2	65.5%	•						226	19.0 x 17.5		0.9
GMAX4002	NORMAL SPEED	2.4 MP	2048 x 1200	4.0 x 4.0	1/1.7"	•	•	•			•	•	•	8/4	229 @ LVDS	6.4	2.6	11.6	68	40.7	73.7%			•			74	16.6 x 12.9		0.5	
GMAX4002	HIGH SPEED	2.4 MP	2048 x 1200	4.0 x 4.0	1/1.7"	•	•	•			•	•	•	8	344	9.6	2.9	10.8	64.4	40.7	73.7%			•			74	16.6 x 12.9		0.5	
GMAX4002W	-	1.6 MP	1312 x 1200	4.0 x 4.0	1/1.7"	•	•	•			•	•	•	8/4	229 @ LVDS	6.4	2.6	11.6	68	40.7	73.7%			•			74	16.6 x 12.9		0.5	
GMAX2509	NORMAL SPEED	9.0 MP	4200 x 2160	2.5 x 2.5	2/3"	•		•					•	16	121	13.2	1.8	6.7	65.5	38.2	65.5%	•					226	20.3 x 17.5		0.9	
GMAX2509	HIGH SPEED	9.0 MP	4200 x 2160	2.5 x 2.5	2/3"	•	•						•	32	290	30.7	3.9	6.7	62.1	38.2	65.5%	•					226	20.3 x 17.5		1.2	
GMAX3405	-	5 MP	2448 x 2048	3.4 x 3.4	2/3"	•	•	•				•	•	12	164 @ LVDS	1.2	1.6	10.0	66.9	40.0	75%	•					176	17.6 x 15.8		1.5	
GMAX3412	-	12 MP	4096 x 3072	3.4 x 3.4	1.1"	•	•	•				•	•	16	128 @ LVDS	19.2	1.8	10.0	67.9	40.0	75%	•					176	22.9 x 19.4		1.5	
GMAX2518	NORMAL SPEED	18 MP	4508 x 4096	2.5 x 2.5	1"	•		•					•	16	64	14.2	1.7	8.0	65.6	39.0	66%	•					226	20.8 x 19.5		1.2	
GMAX2518	HIGH SPEED	18 MP	4508 x 4096	2.5 x 2.5	1"	•	•						•	32	139	30.7	4.7	8.0	62.0	39.0	66%	•					226	20.8 x 19.5		1.2	
GMAX3809	-	9.0 MP	4096 x 2160	3.8 x 3.8	1.1"	•		•					•	8	54	7.7	3.3	10.5	71	40.5	61.7%	•					163	27.1 x 17.9		1.0	
GMAX0505	NORMAL SPEED	26.2 MP	5120 x 5120	2.5 x 2.5	1.1"	•		•					•	16	42	13.2	1.8	6.7	65.5	38.2	65.5%	•					226	22.3 x 23.4		1.1	
GMAX0505	HIGH SPEED	26.2 MP	5120 x 5120	2.5 x 2.5	1.1"	•	•						•	48	150	46.1	3.9	6.7	62.1	38.2	65.5%	•					226	22.3 x 23.4		1.5	
GMAX3413	-	12.7MP	5900 x 2160	3.4 x 3.4	4/3"	•		•					•	8	32	7.68	2.1	8.6	71.4	39.3	63%	•					163	32.7 x 17.9		1.2	
GMAX3265	NORMAL SPEED	65.4 MP	9344 x 7000	3.2 x 3.2	2.3"	•		•					•	28	31	26.9	1.9	10.9	66.0	40.3	65.3%		•				239	41.8 x 35.8		2.1	
GMAX3265	HIGH SPEED	65.4 MP	9344 x 7000	3.2 x 3.2	2.3"	•	•						•	56	71	50.4	7.5	10.6	62.3	40.2	65.3%		•				239	41.8 x 35.8		2.3	
GMAX4651	-	50.8 MP	8424 x 6032	4.6 x 4.6	2.7"	•		•					•	24	30	20.7	7.6	18.0	65.5	42.5	67%		•				238	58.6 x 42.0		2.8	
GMAX32103	-	103.7 MP	11276 x 9200	3.2 x 3.2	2.9"	•		•					•	52	24	49.92	4.3	9.0	66.4	39.5	67%		•				209	49.5 x 42.3		2.5	
GMAX32152	-	152.3 MP	16556 x 9200	3.2 x 3.2	3.7"	•		•					•	38	16	36.48	4	9.3	67.3	39.6	67%		•				183	68.2 x 52.0		2.8	
GSPRINT SERIES																															
GSPRINT4502	-	2.0 MP	2048 x 1216	4.5 x 4.5	2/3"	•	•	•					•	64/44/22	3462 @ 8-bit	76.8	3.8	30	68.2@12-bit	44.8	64%		•					255	28.0 x 29.4		2.5
GSPRINT4510	NORMAL SPEED	10.0 MP	4608 x 2176	4.5 x 4.5	4/3"	•		•					•	72/52	809/480	86.4	4	31	67.3	44.9	67%		•					454	42.0 x 34.0		2.5
GSPRINT4510	HIGH SPEED	10.0 MP	4609 x 2176	4.5 x 4.5	4/3"	•	•						•	144	1920	172.8	16.7	28.6	52.6	44.5	67%		•					454	42.0 x 34.0		5.0
GSPRINT4510	FULL SPEED	10.0 MP	4608 x 2176	4.5 x 4.5	4/3"	•	•	•					•	144/92/52	1920 @ 8-bit	172.8	4	31	67.3	44.9	67%		•					454	42.0 x 34.0		5.0
GSPRINT4521	NORMAL SPEED	21.0 MP	5120 x 4096	4.5 x 4.5	1.84"	•		•					•	96/56	500/250	115.2	4	34	66.8	45.3	63%		•					454	42.0 x 42.0		6.0
GSPRINT4521	HIGH SPEED	21.0 MP	5120 x 4096	4.5 x 4.5	1.84"	•	•	•					•	160/96/56	1000 @ 8-bit	192	4	34	66.8	45.3	63%		•					454	42.0 x 42.0		6.0
GL SERIES																															
GL3504	-	2K 4K	4096 x 2 2048 x 4	3.5 x 3.5 7.0 x 7.0	14.3 mm	•	•	•					•	6	84.4k 172.7k	5.47	4.9	9.3	65.5	39.7	60% 71%			•				58	22.3 x 10.6		1.0
GL1402	-	2K	2048 x 1 2048 x 3	14.0 x 14.0	28.9 mm	•		•					•	4	81k 27k	2.08	9.1	28.7	70	44.5	61%		•					54	38.0 x 7.4		0.42
GL0402	-	4K	4096 x 1 4096 x 2	7.0 x 7.0	28.7 mm	•		•					•	12	200k 100k	10.94	5.2	25	65.6	43.9	76			•				76	40.0 x 11.0		2.25
GL7004	-	4K	4096 x 4	7.0 x 7.0	1.8"	•		•					•	12	250k	14.4	8.8	10.5	61.5	40.2	76.8%			•				72	38.0 x 7.4		1.05
GL0816	-	8K	8322 x 16	5.0 x 5.0	41.6 mm	•		•	•				•	66	200k/100k	52.8	17/13	15/17	59/62	42	69%			•				258	55.8 x 18.1		4.0
GL7008	-	8K	8192 x 1 8192 x 2 8192 x 3 8192 x 4	7.0 x 7.0	57.3 mm	•		•					•	25	200k 100k 66.7k 50k	24	6.8	10	63	40	73%				•			168	71.8 x 32.0		4.4
GLT5009BSI	-	9K	9072 x (256 +3)2	5.0 x 5.0	45.3 mm	•	•	•					•	86	608k 300k	74.3	10.6/7.2	19.2	63.7/68.7	42.0	81%			•				269	61.5 x 20.0		5.8
GL3516	-	16K	16384 x 1 16384 x 2	3.5 x 3.5	57.3 mm	•		•					•	25	120k 60k	19.7	8.2	5.6	56.6	37.5	57%				•			168	71.8 x 32.0		3.2
GSENSE SERIES																															
GSENSE2011	-	2.0 MP	2048 x 1152	6.5 x 6.5	1"	•		•					•	32	668	4.8	2.1	45	87	46	68%			•				153	6.1 x 29.5		0.8
GSENSE2020	-	4.0 MP	2048 x 2048	6.5 x 6.5	1.2"	•	•	•					•	32	370 GS/45 RS	4.8	2.1	45	86.6	46	68%			•				153	26.1 x 29.5		0.8
GSENSE2020BSI	-	4.0 MP	2048 x 2048	6.5 x 6.5	1.2"	•		•					•	8	43	4.8	1.2	55	90.5	47	95%			•				153	26.1 x 29.5		1.2
GSENSE400	-	4.0 MP	2048 x 2048	11.0 x 11.0	2"	•		•					•	8	48	24	1.5	90	95 (HDR)	50	53%			•				115	36.5 x 36.5		0.6
GSENSE400BSI	-	4.0 MP	2048 x 2048	11.0 x 11.0	2"	•		•					•	8	48	24	1.5	90	95 (HDR)	50	92%			•				115	36.5 x 36.5		0.6
GSENSE6510BSI	-	10.2 MP	3200 x 3200	6.5 x 6.5	1.8"	•	•	•					•	72	500/166/88	69.1@8bit	0.7	21	78.8	43.3	95%	•						284	44.4 x 34.2		2.7
GSENSE4040	-	16.8 MP	4096 x 4096	9.0 x 9.0	3.3"	•		•					•	18	24	10.8	2.3	70	86.0	48.5	71%			•				140	51.5 x 53.0		1.4
GSENSE4040BSI	-	16.8 MP	4096 x 4096	9.0 x 9.0	3.3"	•		•					•	18	24	10.8	2.3	39	85.0	45.9	90%			•				140	51.5 x 53.0		1.4
GSENSE6060	-	37.0 MP	6144 x 6144	10.0 x 10.0	5.4"	•		•					•	52	44/14	31.5/8.82	4.6	133	89.0	48	70%			•				250	74.0 x 99.0		5.4
GSENSE6060BSI	-	37.0 MP	6144 x 6144	10.0 x 10.0	5.4"	•		•	•																						