

GMAX Series

GLOBAL SHUTTER CMOS IMAGE SENSORS

GMAX C-MOUNT

GMAX is Gpixel's global shutter sensor family, designed to take full advantage of high-speed industrial camera interfaces while providing the performance and features required for imaging-as-measurement applications like factory inspection, automation, traffic monitoring and aerial mapping. In the GMAX portfolio, Gpixel offers global shutter pixel sizes ranging from 1.5 μm to 6.4 μm and resolutions from 2.4 MP to 271 MP. Four C-Mount compatible sensors utilizing a 2.5 μm pixel are pin and footprint compatible for easy integration.

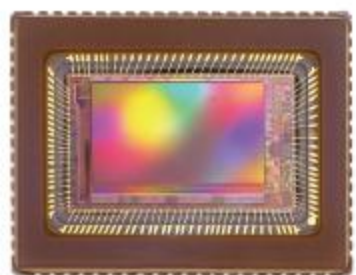
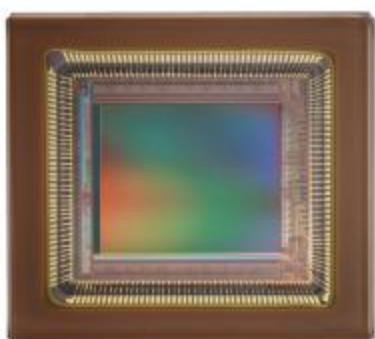
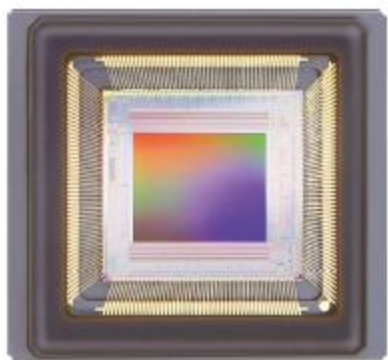
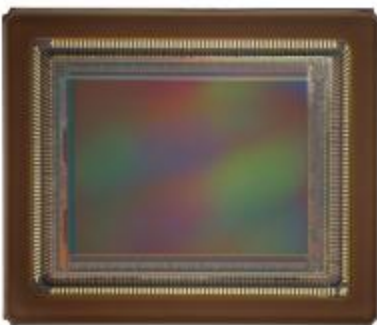
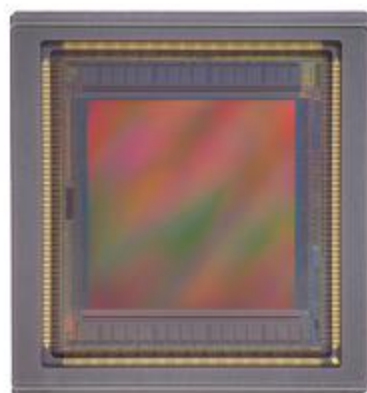
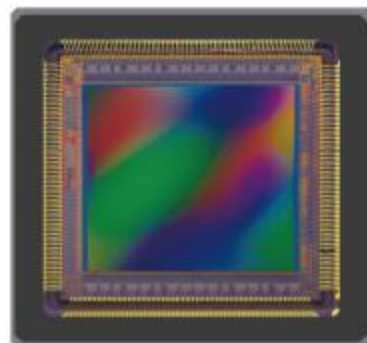
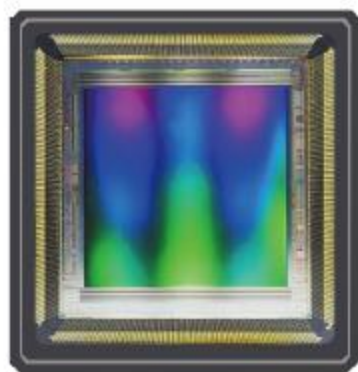


Product Family Features

- ✓ High Frame Rates
- ✓ Flexible ROI read out
- ✓ Small sized Global Shutter pixel for high resolution
- ✓ Product family approach
- ✓ Industry standard sub LVDS outputs with channel multiplexing
- ✓ Optical Black columns and rows
- ✓ On-chip sequencer and SPI control
- ✓ One Time Programmable memory (OTP)

Applications

- ✓ Automation & Inspection
- ✓ Traffic & Transportation
- ✓ Video Broadcasting
- ✓ Medical Imaging

CMOS Image Sensors		Resolution	Pixel Size (μm²)	Optical Format	Shutter Type	PLS (dB)	Peak QE	FWC Max(ke⁻)	Temporal Noise Min (e⁻)	DR Max (dB)	ADC (bit)	Max Frame Rate(fps)
GMAX4002		2048 x 1200	4.0 x 4.0	1/1.7" 9.5 mm	Global	- 92.0	74% (550 nm)	11.6	2.6	68	12/10	344
GMAX3405		2448 x 2048	3.4 x 3.4	2/3" 10.9 mm	Global	- 88.0	75% (540 nm)	8.7	1.6	66.9	12/10	264
GMAX2505		2600 x 2160	2.5 x 2.5	1/2" 8.5 mm	Global	- 80.0	66% (500 nm)	6.7	1.8	65.5	12/10	290
GMAX2509		4200 x 2160	2.5 x 2.5	2/3" 11.8 mm	Global	- 80.0	66% (500 nm)	6.7	1.8	65.5	12/10	290
GMAX3809		4096 x 2160	3.8 x 3.8	1.1" 17.6 mm	Global	- 92.0	62% (540 nm)	11.2	3.3	70.7	12	54
GMAX3412		4096 x 3072	3.4 x 3.4	1.1" 17.5 mm	Global	- 88.0	75% (540 nm)	9	1.8	67.9	12/10	150
GMAX3413		5900 x 2160	3.4 x 3.4	MFT 21.4 mm	Global	- 92.0	63% (540 nm)	8.6	2.3	71.4	12	32
GMAX4416		4096 x 4096	4.4 x 4.4	1.6" 25.5 mm	Global	- 91.0	71% (530 nm)	15	3	79.9	12	80
GMAX2518		4508 x 4096	2.5 x 2.5	1" 15.2 mm	Global	- 80.0	64% (520 nm)	8	1.7	66.9	12/10	139
GMAX0505		5120 x 5120	2.5 x 2.5	1.1" 18.1 mm	Global	- 80.0	66% (500 nm)	6.5	1.6	65.8	12/10	150
GMAX2424BSI		6016 x 4096	2.4 x 2.4	1.1" 17.5 mm	Rolling	-	92% (510 nm)	12.1	1.3	73	12/10	60

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