

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.

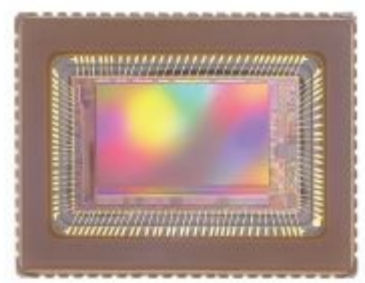
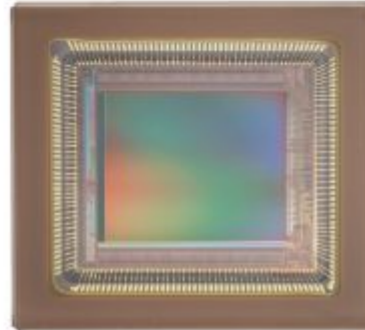
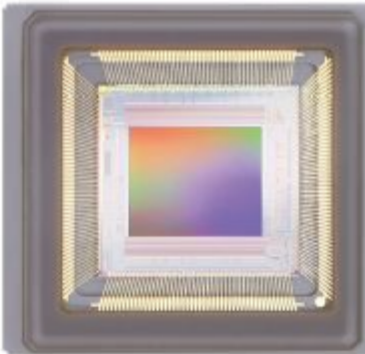
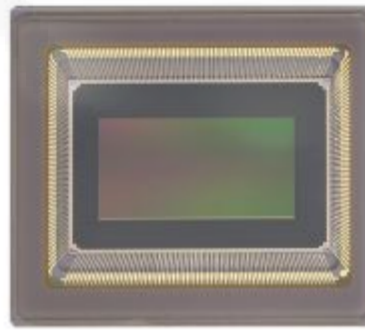

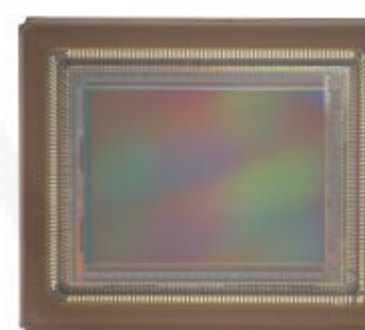
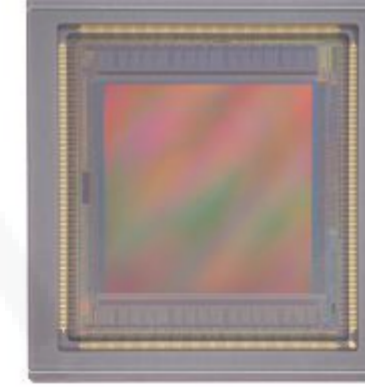
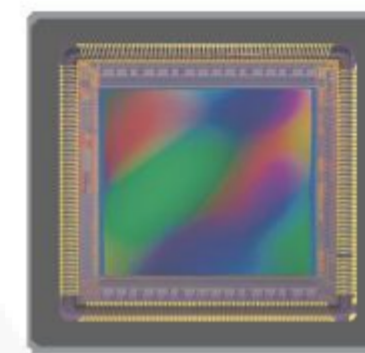
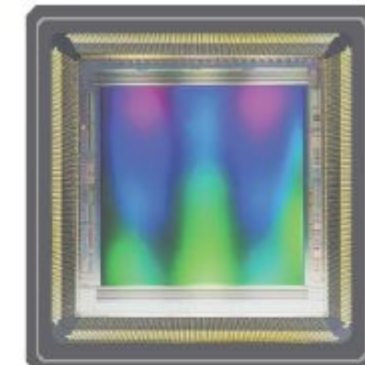
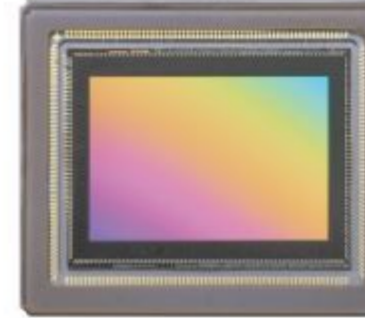


Product Family Features

- ✓ 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 (μm ²)	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
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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