

GMAX Series

PIN COMPATIBLE GLOBAL SHUTTER IMAGE SENSORS

GMAX C-MOUNT

The GMAX C-Mount family consists of four pin-compatible CMOS image sensors ranging from 5 MP to 26 MP. All sensors incorporate the same high-performance 2.5 μm global shutter pixel delivering 65% quantum efficiency at 550 nm and over 65 dB dynamic range. The sensors are assembled in footprint-identical 226 pin ceramic LGA packages with aligned optical and mechanical centers and are available in color and monochrome variants. [GMAX0505](#) is also available with Red Fox NIR enhancement technology, which increases the quantum efficiency to an industry-leading 15% at 940 nm.

The combination of high resolution and frame rate in standard optical formats makes the GMAX C-Mount family an attractive and cost-effective solution in a variety of applications including inspection, automation, robotics, and intelligent traffic systems.



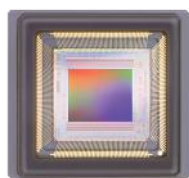
Product Family Features

- ✓ 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

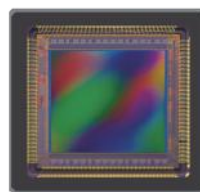
Gpixel Sensor Specifications



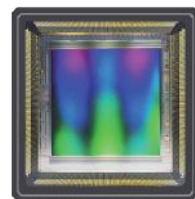
GMAX2505 5MP



GMAX2509 9MP



GMAX2518 18MP



GMAX0505 26MP

Pixel	2.5 μm GS	2.5 μm GS	2.5 μm GS	2.5 μm GS
Opt. Format	1/2"	2/3"	1"	1.1"
Resolution	2600 x 2160	4200 x 2160	4508 x 4096	5120 x 5120
Chroma	Mono RGB	Mono RGB	Mono RGB	Mono NIRopt RGB
FWC_{max}	6.7 ke^-	6.7 ke^-	8.0 ke^-	6.5 ke^-
Noise_{min}	1.8 e^-	1.8 e^-	1.8 e^-	1.6 e^-
DR_{max}	65.5 dB	65.5 dB	67.0 dB	65.8 dB
QE_{max}	65% @ 550 nm	65% @ 550 nm	65% @ 550 nm	65% @ 550 nm
Frame Rate @ADC	290 fps @ 10 bit 121 fps @ 12 bit	290 fps @ 10 bit 121 fps @ 12 bit	139 fps @ 10 bit 64 fps @ 12 bit	150 fps @ 10 bit 42 fps @ 12 bit
Power	<900 mW	<1200 mW	<1200 mW	<1500 mW
SLVDS lanes	HS: 20/10/8/6/4/2 NS: 10/8/6/4/2	HS: 32/16/12/8/4/2 NS: 16/12/8/4/2	HS: 32/16/12/8/4/2 NS: 16/12/8/4/2	HS: 48/24/16/12/8/6/4/2 NS: 16/12/8/6/4/2
Package	19.0x17.5 mm 226p LGA	20.3x17.5 mm 226p LGA	20.8x19.5 mm 226p LGA	22.3x23.4 mm 226p LGA
Availability	EVK & MP	EVK & MP	EVK & MP	EVK & MP

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