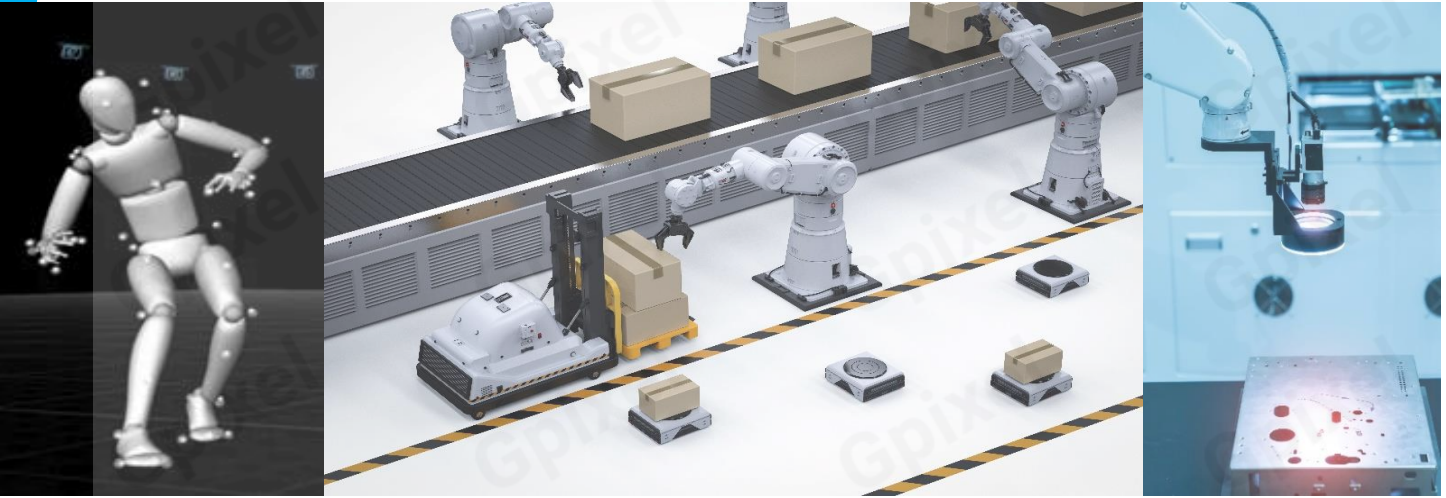


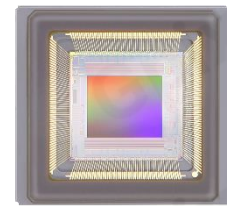
GMAX2505 Product Flyer



2.5UM 5MP GLOBAL SHUTTER IMAGE SENSOR

Featured with world smallest charge domain global shutter pixel, **GMAX2505** is the new member of GMAX series C mount line up after **GMAX0505**. It offers 5MP (2600 x 2160) resolution in 1/2" optical format, operates with true CDS for low noise and high dynamic range. In addition, it has excellent PLS and angular response thanks to the light pipe technology.

GMAX2505 supports 10 bit and 12 bit output and is offered in two speed variances matching industrial standard camera interface speeds. The full speed version consists of 20 sub-LVDS data output channels each running at maximum 960MHz, offering full resolution frame rate of 290 fps at 10 bit output and a total data throughput of 19.2 Gbps. The high frame rate increases system throughput for industrial inline inspections and enables precise operation at high speed.



Key Features

- 2.5 um Global Shutter pixel
- High resolution GS in 1/2" optical format
- High data throughput up to 19.2 Gbps
- Low noise global shutter
- NIR enhanced – Red Fox
- Good PLS and CRA

Applications

- Industrial inspection
- Machine Vision
- Motion Capture
- Automation & Robotic

Sensor Specifications

Resolution	2600 x 2160	Optical format	1/2"
Pixel size	2.5 μ m x 2.5 μ m	Photo-sensitive area	6.5mm x 5.4mm
Shutter type	Global shutter	Quantum efficiency	65% @ 500nm
Full well capacity	6.7 ke ⁻	Shutter efficiency	1/10000
Dark noise	1.8 e ⁻	Dark current	<1e ⁻ /p/s @ 25°C
Dynamic range	62.1dB @ 10bit 65.5dB @ 12bit	Frame rate	290fps @ 10bit 121fps @ 12bit
Output interface	20 pairs of sub-LVDS	Channel multiplexing	20/10/8/6/4/2
ADC	10/12bit	Max. Data rate	19.20 Gbps
Chroma	Mono & Color	Power consumption	804mW @ 10bit / 578mW @ 12bit
I/O voltage	1.8V - 3.3V	Package	226 pins LGA 19.0mmx17.5mm

Ordering Information

Sensor Part No.

GMAX2505-BVM-HST-AU1
High speed, 290fps, 10bit, mono, small package

GMAX2505-BVM-NST-AU1
Normal speed, 121fps, 12bit, mono, small package

GMAX2505-BVC-HST-AU1
High speed, 290fps, 10bit, color, small package

GMAX2505-BVC-NST-AU1
Normal speed, 121fps, 12bit, color, small package

EVK Part No.

E-GMAX2505-02-1
USB interface, 3 stacked PCB boards

Contact Gpixel HQ

Building #5, Optoelectronic
Information Industrial Park,
#7691 Ziyou Road,
Changchun, Jilin, China.

Tel: +86-0431-85077785
Email: info@gpixel.com
Website: www.gpixel.com

Scan me for more information:



All rights reserved.
Subject to change without notice