

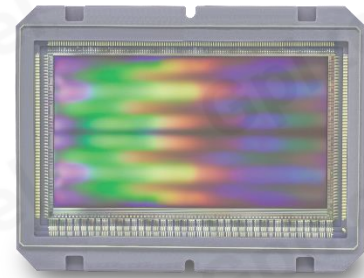
GMAX32152 Product Flyer



152MP GLOBAL SHUTTER IMAGE SENSOR

GMAX32152 is an ultra-high resolution global shutter CMOS image sensor in medium format. Using a state-of-the-art charge domain pixel architecture, this sensor delivers an attractive combination of high frame rate and high dynamic range. A native 12-bit performance pixel achieves 65.5 dB dynamic range, combined with a high speed subLVDS delivering 16 fps. Pixel data is read out over serial differential pairs, with source synchronous clock and control channel.

Its medium format image area and wide aspect ratio make it well suited for aerial mapping and surveying applications and cultural heritage digitization.



Key Features

- 3.2 μm Global Shutter pixel
- large image plane of 60.6mm diagonal
- High data throughput up to 960Mbps
- Low noise global shutter
- High speed and Good PLS

Applications

- High Resolution Industrial Inspection
- Flat panel display inspection
- Aerial mapping

Sensor Specifications

| | | | |
|--------------------|--|----------------------|---------------------------------|
| Resolution | 16556 x 9200 | Optical format | Medium sized (46.6mm) |
| Pixel size | 3.2 μm \times 3.2 μm | Photo-sensitive area | 53 mm \times 29.4 mm |
| Shutter type | Global shutter | Quantum efficiency | 66.9% @ 500 nm |
| Full well capacity | 9.3ke ⁻ | Shutter efficiency | -83.5dB |
| Dark noise | 5e ⁻ | Dark current | 1.4 e ⁻ /s @30°C |
| Dynamic range | 65.5 dB | Frame rate | 16fps |
| Output interface | 38 pairs of sub-LVDS | Channel multiplexing | 38/20/14/11/8/5 |
| ADC | 12bit | Max. Data rate | 960Mbps |
| Chroma | Mono & Color | Power consumption | 2471 mW |
| I/O voltage | 2.5V - 3.3V | Package | 183 pins PGA 68.2 mm x 52 mm |

Ordering Information

Sensor Part No.

GMAX32152-CVM-NUT-BUD
mono, Demo sample

GMAX32152-CVC-NUT-BUD
Color, Demo sample

EVK Part No.

EVA-32152-NT12, USB interface, 3 stacked PCB boards

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