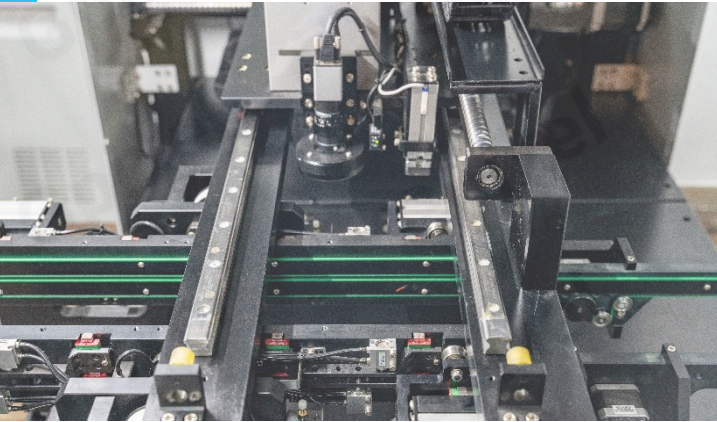


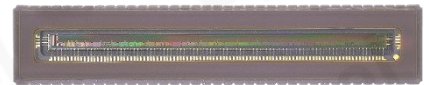
GL7004 Product Flyer



4K 7 μ m Resolution Global Shutter Line Scan CMOS Image Sensor

The GL7004 is a 4096 (H) x 2/4 (V) resolution global shutter linear array CMOS image sensor, featuring 7 μ m high-sensitivity pixels. Offered in two basic flavors: a multi color 4 row R+G+B+Mono and 2 row mono variants, the sensor allows each row to have a unique exposure time, with line rates up to 250 kHz in single line mode and 76.9 kHz in quad line mode. The sensor's high line rate is a perfect fit for high-throughput various industrial inspection applications including sorting various inspection applications like solar panel, printing and railway monitoring at a cost-effective price offering.

The GL7004 is available in a compact LCC ceramic package, requiring only 3 external power supplies and consuming only 1.05W, making it easier for customers to design and integrate their systems.



Key Feature

- RGB/RGBW true color
- External Trigger
- Low power consumption
- Individual exposure control for each line of pixel
- High cost performance

Applications

- Industrial Inspection
- Printing Inspection
- Rail & Train Inspection
- High Speed Web Inspection
- Sorting & Logistics

Sensor Specifications

Resolution	4096 (H) x 4 (V)	Optical format	1.8 "
Pixel size	7.0 μm x 7.0 μm	Photo-sensitive area	28.67 mm x 0.06 mm
Shutter type	Global Shutter	Quantum efficiency	76.8% @ 580 nm
Full well capacity	10.5 ke ⁻	Temporal noise	4.3 e ⁻ @High Gain
Dark Current	1.1 ke ⁻ /s @ 44.7 °C	Dynamic range	61.5 dB
Max. Line rate	250 kHz @ Single line mode	Output format	12 ch Sub-LVDS
Data rate	14.4 Gbps	Channel multiplexing	-
Chroma	Mono & RBG-W	Power consumption	1.05W
I/O voltage	3.6V (analog) 1.5V (digital) 1.8V-3.3V (I/O)	Package	72 pins CLCC (38.0 mm x 7.4 mm)

Ordering Information

Sensor Part	Description	Grade
GL7004-BVM-NCN-AUD	Monochrome, no microlens, ceramic 72 pins CLCC, Sealed D 263® T eco glass without AR coating.	Demo grade
GL7004-BVC-NCN-AUD	Multi Line Color, no microlens, ceramic 72 pins CLCC, Sealed D 263® T eco glass without AR coating.	Demo grade

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