

# GL7008 Product Flyer

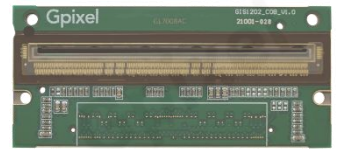


## 7 um 8K LINEAR CMOS IMAGE SENSOR

**GL7008** is a global shutter line scan image sensor with 7um square pixels and a horizontal resolution of 8192. The high sensitivity of the 7um pixels combined with the 200kHz line rate makes the sensor an ideal solution for inspection and logistics applications.

**GL7008** is offered in both color and monochrome versions. The monochrome sensor supports single and dual line modes. The color sensor supports 3-line true color and 4-line RGBW modes.

**GL7008** is assembled in a COB package with WCu heat sink for optimal heat dissipation and with connector for easy integration.



### Key Features

- GL7008 mono: 8192(H) x 2(V)
- GL7008 color: 8192(H) x 4(V)
- Individual exposure control for each color line
- External Trigger
- Channel Multiplexing
- On Chip PLL
- On Chip Sequencer

### Applications

- Industrial inspection
- Logistics and barcode scanning
- Sorting
- Printing inspection
- Rail and train inspection

## Sensor Specifications

Pixel size	7um x 7um	Effective resolution	8192(H) x 2(V) mono 8192(H) x 2(V) color
Full well capacity	10 ke-	Effective OB columns	2x 38 columns (L+ R)
Dynamic range	63.3dB	Temporal noise	6.8e-
Angular Response	20° @ 85%QE	Peak QE	73.2% @530nm
Supply voltage	3.3V for analog	Max. Line rate(lines/s)	7um 12bit 1 line:200k
	1.8V for digital		7um 12bit 2 line:100k
	1.8V-3.3V for IO		7um 12bit 3 line:66.7k
			7um 12bit 4 line:50k
Output data	12-bit	Dark Current	0.4 ke-/s/pix
Data rate	Max. 24Gbps	Channel Multiplexing	25/13/7/4
Output format	25-Sub-LVDS data 3-DDR clock output	Chroma	Mono & Color
Power consumption	<4.4W	Package	168 pins COB

## Ordering Information

### GL7008-AVC-NON-AU1

Color, without microlens, COB 168 pins connector, Sealed D263® T glass without AR coating, Grade 1

### GL7008-AVM-QON-AU1

Monochrome, without microlens, COB 168 pins connector, Sealed D263® T glass without AR coating, Grade 1

### GL7008-AVM-NON-AU1

Monochrome, without microlens, COB 168 pins connector, Sealed D263® T glass without AR coating, Grade 1

### EVK Part No.

E-GL7008-01-1

## Contact Gpixel HQ

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

Tel: +86-0431-85077785  
Email: [info@gpixel.com](mailto:info@gpixel.com)  
Website: [www.gpixel.com](http://www.gpixel.com)

Scan me for more information:



All rights reserved.  
Subject to change without notice