

GL7008 Product Flyer

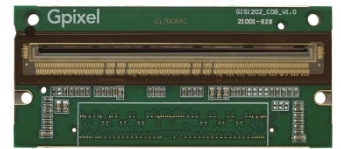


7 um 8K LINEAR CMOS IMAGE SENSOR

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	Chroma	Mono & Color
	3-DDR clock output		
Power consumption	<4.4W	Package	168 pins COB

Ordering Information

GL7008-AVM-NON-AUD

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

GL7008-AVC-NON-AUD

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

GL7008-AVM-NON-AUE

Monochrome, without microlens, COB 168 pins connector, Sealed D263® T glass without AR coating, Engineering Sample

GL7008-AVC-NON-AUE

Color, without microlens, COB 168 pins connector, Sealed D263® T glass without AR coating, Engineering Sample.

EVK Part No.

E-GL7008-01-1

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