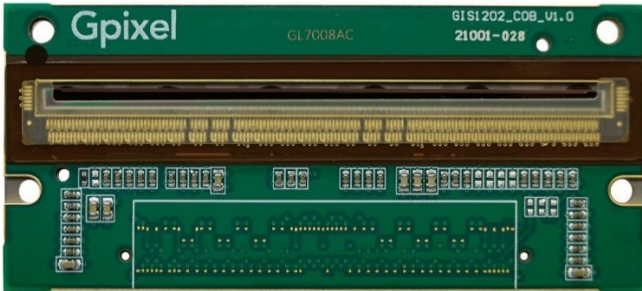


## 8K Line Scan CMOS Image Sensor



### Applications

- Industrial Inspection
- Logistics barcode scanning
- Printing Inspection
- Railway Inspection
- Sorting

### SENSOR DESCRIPTION

GL7008 is a high-speed global shutter line scan image sensor with 7 $\mu$ m square pixels and a horizontal resolution of 8192. The high sensitivity of the 7 $\mu$ m pixels combined with the 200kHz line rate makes the sensor an ideal solution for inspection and logistics applications requiring high speed scanning.

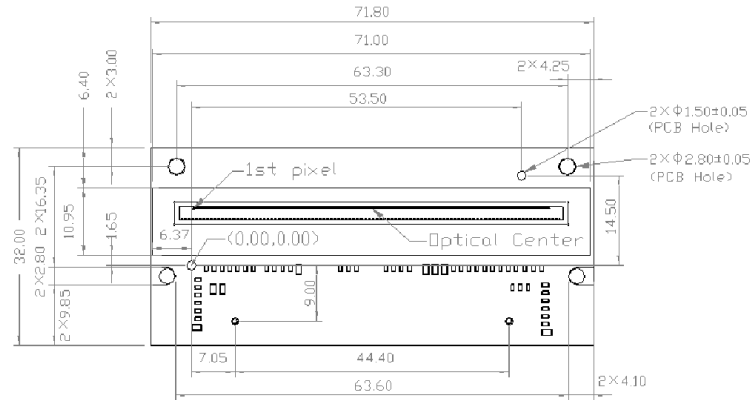
GL7008 is offered in both color and monochrome versions. The monochrome sensor supports single and dual line modes with optimal sensitivity. The color sensor supports 3-line true color and 4-line RGBW multispectral output. The exposure time of each line can be individually adjusted by an external trigger, enabling on-chip color balancing. The line spacing of the sensor is equivalent to the pixel size to satisfy the requirements of line frequency matching.

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

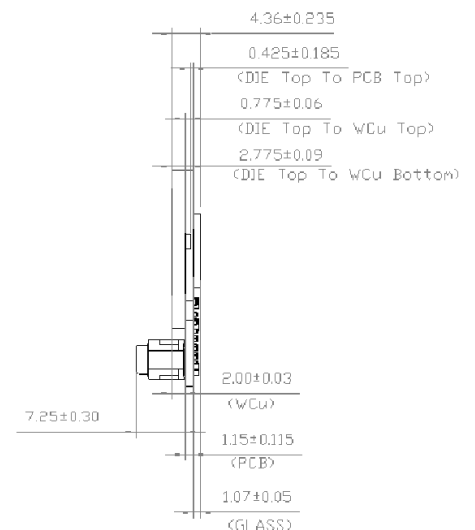
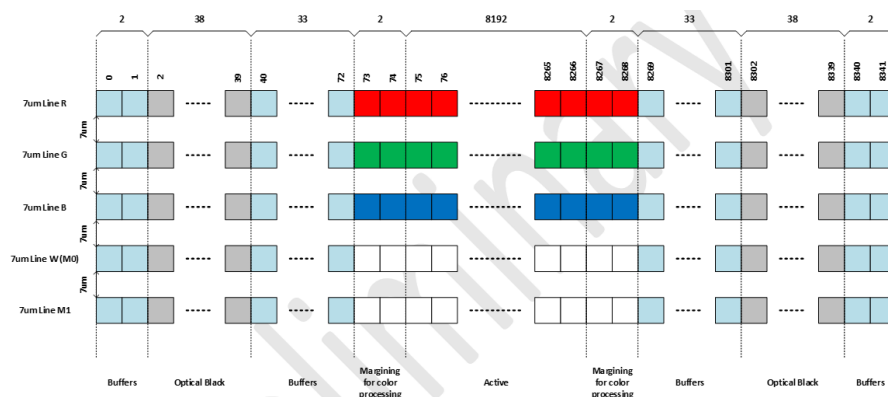
### SENSOR SPECIFICATIONS

Resolution	8192 (H) $\times$ 2 (V)	8192 (H) $\times$ 4 (V)
Pixel size	7 $\mu$ m $\times$ 7 $\mu$ m	
ADC	12 bit	
Full well capacity	10 ke-	
Temporal noise	6.8 e-	
Dynamic range	63.3 dB	
Max. Line rate	200 kHz	66.7 kHz
Power consumption	<4.4W	
Output Interface	25/13/7/4 pairs of Sub-LVDS	
Max. Data rate	24 Gbps	
Package	COB	
Chroma	Mono	Color

### PACKAGE OUTLINE



### PIXEL ARRAY



Subject to change without notice. Please address all product inquiries to GPIXEL

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