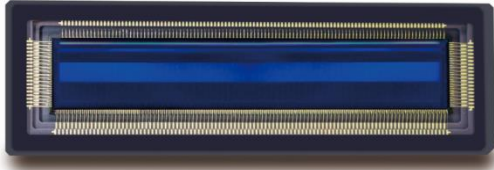


8322 x 16 Linear CMOS Image Sensor – GL0816



Applications:

- Film Inspection
- Printing Inspection and Label Inspection
- PCB Inspection

SENSOR DESCRIPTIONS

Designed for high speed industrial inspection, GL0816 is a line scan CMOS image sensor which consists of 16 lines of 8322 pixels with 5µm pixel size and 5µm inter-line space. It supports standard 4 lines readout, and max 8 lines with 2-stage on-chip TDI. The maximum line rate is 200kHz. For higher sensitivity, all 16 lines can be read out which makes further off-chip TDI accumulation possible. GL0816 is manufactured with RGBW 4-band CFA which is customized with extremely low color crosstalk to enable accurate image reproduction.

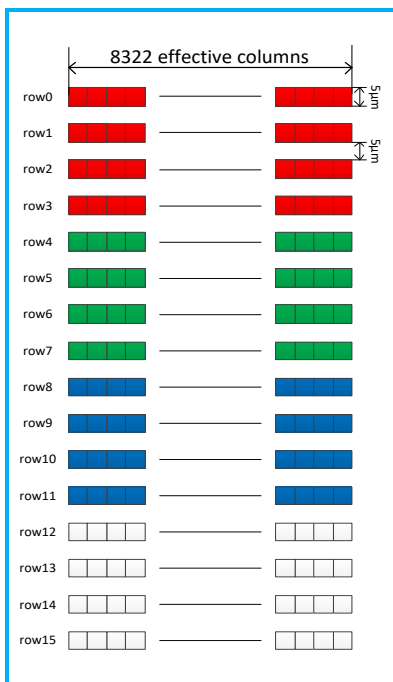
SENSOR SPECIFICATIONS

Resolution	8322 × 16	Shutter type	Global shutter
Pixel size	5µm × 5µm	Photosensitive area	41.61mm × 0.08mm
Peak QE	>70% @ 600nm	Max data rate	52.8Gbit/s
Output format	66 pairs of LVDS	Chroma	RGBW & Mono
Power consumption	<4W	Package	258 pins micro-PGA

OPERATION MODES

Operation mode	2-line mode	4-line mode	4 x 2-stage TDI mode	4 x 2-stage TDI mode
ADC	11-bit	8-bit	10-bit	10-bit
Line rate	200kHz	120kHz	100kHz	100kHz
Full well charge	17ke ⁻	15ke ⁻	15ke ⁻	29ke ⁻
Dynamic range	62dB	53dB	58.9dB	58.6dB

PIXEL ARRAY



PACKAGE OUTLINE

