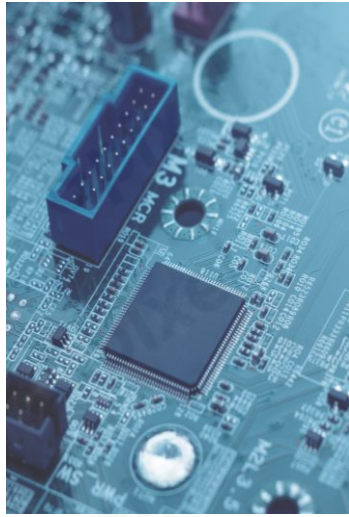
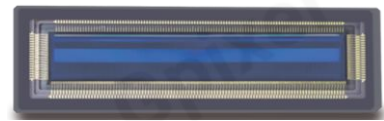


GL0816 Product Flyer



5UM 8K LINE SCAN CMOS IMAGE SENSOR

Designed for high speed industrial inspection, **GL0816** is a line scan CMOS image sensor consists of 16 lines of 8322 pixels with $5\mu\text{m}$ pixel size and $5\mu\text{m}$ inter-line spacing. It supports dual line, 4-line readout and max 8 lines with 2-stage on-chip TDI. The maximum line rate of **GL0816** is 200kHz. **GL0816** is manufactured with Mono or RGBW 4-band CFA with low color crosstalk to enable accurate image reproduction.



Key Features

- Resolution: 8322 (H) x 16 (V)
- $5\mu\text{m}$ square pixels
- Global shutter
- 16 lines with $5\mu\text{m}$ inter-line spacing
- 10/11bit ADC depth
- Channel multiplexing

Applications

- Industrial Inspection
- Printing Inspection
- Label Inspection
- Film Inspection
- PCB Inspection

Sensor Specifications

active pixels	8322 (H) x 16 (V)	Shutter type	Global shutter
Pixel size	5 μ m x 5 μ m	Photo-sensitive area	41.61mm x 0.08mm
Input clock rate	80MHz@10bit 66.67MHz@11bit	Max Line rate	200KHz @2-line 11bit 100KHz @4-line 10bit
Full well capacity	17ke- @2-line 11bit 15ke- @4-line 10bit	Temporal noise	13e- @2 11bit 17e- @4-line 10bit
Dynamic range	62dB @2-line 11bit 58.9dB@4-line 10bit	Peak QE (Mono)	>70% @600nm
Supply voltage	3.3V for analog 2.0V for digital/LVDS 2.2V for ADC	Output format	66 pairs of LVDS
Power consumption	<4 W	Chroma	Mono or RGBW

Ordering Information

Sensor Part No.

GL0816-BVM-NUT-BU1

Monochromatic, with microlenses, Grade 1

GL0816-BVM-NUT-BUE

Monochromatic, with microlenses, Grade E

GL0816-BVC-NUT-BU1

RGBW CFA, with microlenses, Grade 1

GL0816-BVC-NUT-BUE

RGBW CFA, with microlenses, Grade E

EVK Part No.

EVA-0816-2T11, USB interface, PCB boards

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