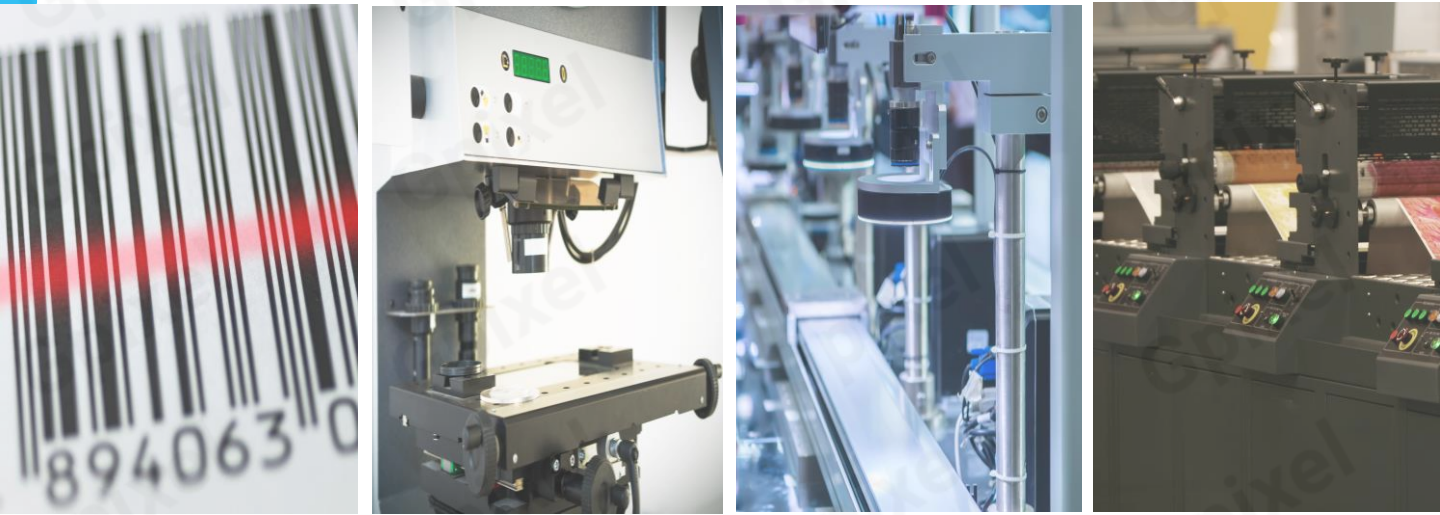


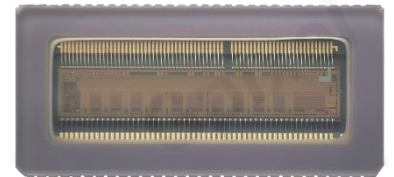
# GL3504 Product Flyer



## 2K/4K LINEAR CMOS IMAGE SENSOR

**GL3504** is a line scan image sensor suitable for small format camera integration with C mount lens, the sensor contains two line with  $3.5\mu\text{m}$  pixel and four lines with  $7\mu\text{m}$  pixel. Line rates run up to 84.4 kHz with  $3.5\mu\text{m}$  pixel line at 12-bit output, and up to 172.7 kHz with  $7\mu\text{m}$  pixel line at 12-bit output.

**GL3504** uses on-chip PLL and all required timing is generated by the on-chip sequencer, reducing the amount of external components needed. Output channel multiplexing enables flexibility in FPGA selection. **GL3504** enables a cost-effective camera solution for demanding inspection applications.



## Key Features

- Working Mode 1 : $3.5\mu\text{m}$  dual line
- Working Mode 2 : $7\mu\text{m}$  single/dual/four line
- External Trigger
- Channel Multiplexing
- OB Columns for Post Correction
- On Chip Sequencer

## Applications

- Industrial inspection
- Logistics barcode scanning
- Printing inspection
- Rail inspection

# Sensor Specifications

	4k	2k
Resolution	4096 × 2	2048 × 4
Pixel size	3.5µm × 3.5µm	7 µm × 7 µm
Optical format	14.336 mm	
Shutter type	Global Shutter	
ADC	8 / 12 bit	
Full well capacity	9.3 ke-	
Temporal noise	4.9 e- @12-bit	4.9 e- @12-bit, 21.2 e- @ 8-bit
Dynamic range	65.8 dB @ 12-bit	65.5 dB @ 12-bit
Max SNR	39.7 dB	
QE	62.0% @ 620 nm	71.9% @ 570 nm
Max. Line rate	84.4 kHz/line @ 12-bit	172.7 kHz/line @ 12-bit
Power consumption	<1.0W	
Interface	6 ch Sub LVDS (mux to 6/3/2/1) @ x 912 Mhz	
Max Data Rate	5.472 Gbps	
Chroma	Mono, RGB Color	
Package	58-pins CLCC (22.3 x 10.6 mm)	

## Ordering Information

### Sensor Part No.

#### GL3504-BVM-NCN- AU1

Support 7µm pixel array, monochrome, no microlens, ceramic 58-pin CLCC, sealed D263® T eco glass without AR coating.

#### GL3504-CVM-NCN- AU1

Support 7µm and 3.5µm pixel arrays, monochrome, no microlens, ceramic 58-pin CLCC, sealed D263® T eco glass without AR coating.

#### GL3504-BVC-NCN- AU1

Support 7µm pixel array, color version, no microlens, ceramic 58-pin CLCC, sealed D263® T eco glass without AR coating.

#### GL3504-CVC-NCN- AU1

Support 7µm and 3.5µm pixel arrays, color version, no microlens, ceramic 58-pin CLCC, sealed D263® T eco glass without AR coating.

### EVK Part No.

EVA-3504-CCC, USB interface, PCB boards

## Contact Gpixel

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