

GL3516 Product Flyer



3.5um 16K line scan CMOS image sensor

GL3516 is a 16384 x 2 resolution, 3.5 μm square pixel, line scan CMOS image sensor that supports a 120 kHz line rate in single line mode and 60 kHz line rate in dual line mode. **GL3516** is pin and footprint compatible with Gpixel's existing GL7008 8K line scan sensor. Its features make it an ideal solution for industrial inspection applications benefitting from high-speed scanning and 16K resolution, including production inspections for lithium battery testing, flat panel displays, PCBs, labels, and railways.

GL3516 is offered in both color and monochrome versions. The monochrome sensor supports single and dual line modes. The color sensor supports dual line mode.

GL3516 is assembled in a COB package with WCu heat sink for optimal heat dissipation and with a connector for easy integration.



Key Features

- High Speed
- High Resolution
- Low Power Consumption
- Easy Integration

Applications

- Battery inspection
- FPD inspection
- PCB inspection
- Printing inspection
- Rail and train inspection

Sensor Specifications

Pixel size	3.5 μm x 3.5 μm	Effective resolution	16384(H) x 2(V)
Full well capacity	5.6ke ⁻	Effective OB columns	2x 76 columns (L + R)
Dynamic range	56.6dB	Temporal noise	8.2 e ⁻
Angular Response	85% @ 20°	Peak QE	57.1% @ 530nm
Dark Current	0.8ke ⁻ /pix/s	Max. frame rate(lines/s)	60 kHz @ 1-line mode, 30 kHz @ 2-line mode
Data output format	10-bit	Supply voltage	3.3V for analog 1.8V for digital 1.8V-3.3V for IO
Data output format	10-bit	Supply voltage	3.3V for analog 1.8V for digital 1.8V-3.3V for IO
Data output format	10-bit	Supply voltage	3.3V for analog 1.8V for digital 1.8V-3.3V for IO
Data rate	Max. 24 Gbps	Channel Multiplexing	25/13/7/4
Output data interface	25-Sub-LVDS data 3-DDR clock output	Chroma	Mono & Color
Power consumption	<1.9W	Package	168 pins COB

Ordering Information

Sensor Part No.

GL3516-BVC-NON-AUD

Color version, no microlens, sealed D263® T glass without AR coating.

GL3516-BVM-NON-AUD

Mono version, no microlens, sealed D263® T glass without AR coating.

Contact Gpixel HQ

Building #5, Optoelectronic
Information Industrial Park,
#7691 Ziyou Road,
Changchun, Jilin, China.

Tel: +86-0431-85077785
Email: info@gpixel.com
Website: www.gpixel.com

Scan me for more information:



All rights reserved.
Subject to change without notice