

# GL3516

3.5  $\mu\text{m}$  16K RESOLUTION GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR

**GL3516** is a 16384 x 2 resolution, 3.5  $\mu\text{m}$  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 Invar heat sink for optimal heat dissipation and with a connector for easy integration.



## Key Features and Benefits

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

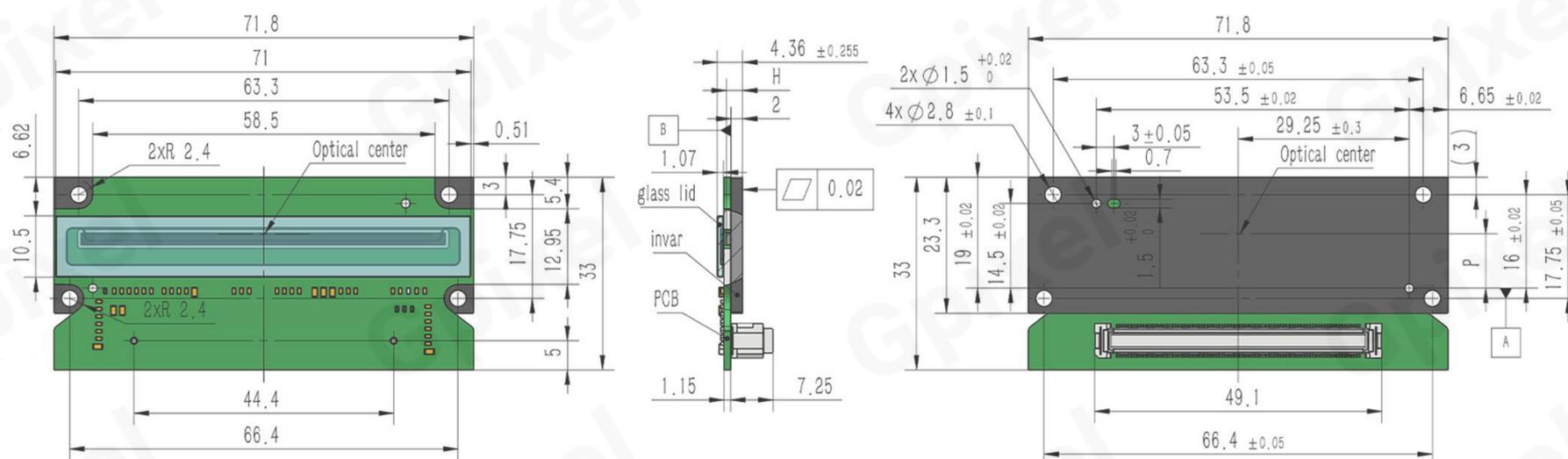
## Applications

- ▶ Automation & Inspection

## Specifications

|                     |   |                      |                                     |
|---------------------|---|----------------------|-------------------------------------|
| Nr of Active Pixels | 16384 (H) x 2 (V)                                       | Optical Format       | 57.344 mm                           |
| Pixel Size          | 3.5 $\mu\text{m}$ x 3.5 $\mu\text{m}$                   | Shutter Type         | Global Shutter                      |
| Peak QE             | 56.7% ( 560 nm)   | Temporal Noise       | 10.6 e <sup>-</sup>                 |
| Full Well Capacity  | 8.4 ke <sup>-</sup>                                     | Angular Response     | 20° (85% Response)                  |
| Dynamic Range       | 58.0 dB   | Max Line Rate        | 120 kHz (single line)               |
| Output Format       | 25 ch Sub-LVDS  | Channel Multiplexing | 25/13/7/4                           |
| ADC                 | 10 bit  | Max. Data Rate       | 24 Gbps                             |
| Chroma              | Mono, RGB Color   | Power Consumption    | 3.2 W                               |
| Supply Voltage      | 3.3 V (analog)<br>1.8 V - 3.3 V (IO)<br>1.8 V (digital) | Package              | 168 pins COB<br>(71.8 mm x 33.0 mm) |

## Package Drawing



## Contact Gpixel

### GPIXEL CHINA CHANGCHUN (HQ)

Office Buildings 1 and 5, Phase I, Optoelectronic Information Industrial Park, No. 7691 Ziyou Road, Changchun, Jilin, China.  
Phone: +86-431-85077785

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### GPIXEL EUROPE

Gpixel NV  
Copernicuslaan 60, 2018 Antwerpen, Belgium  
Phone: +32-33034442

### GPIXEL JAPAN

Gpixel Japan Co., Ltd.  
TOC Osaki Building 18th Floor, 1-6-1 Osaki, Shinagawa-ku, Tokyo, 141-0032 Japan  
Phone: +81-03-5962-1600

