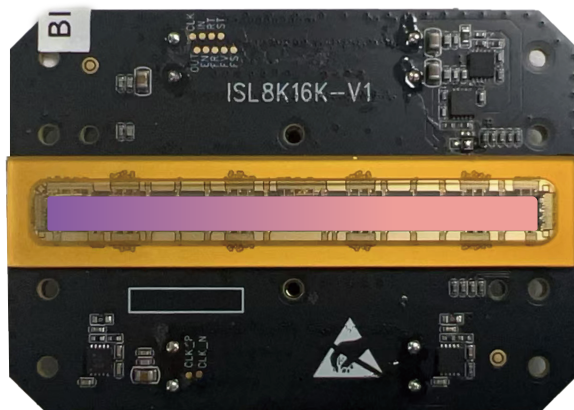


ISL8K16K

LINE SCAN CMOS IMAGE SENSOR



产品介绍 CHIEF APPLICATION

The ISL8K16K is an 8K/16K DCG global/rolling line scan image sensor. The pixel adopts a DCG structure and comes in two pixel pitch types: one with a pitch of $7.02\mu\text{m}$ and the other with a pitch of $3.51\mu\text{m}$. It supports five operating modes: 32-stage TDI, $7\mu\text{m}$ RGBW quad-line true color, two-line pseudo color, and $3.5\mu\text{m}$ RGBW quad-line true color, two-line pseudo color. It supports a maximum line rate of 290KHz at 8-bit output. This image sensor chip utilizes NIR BSI technology and is implemented using a stitching process. The chip dimensions are $3.636\text{mm} \times 59.657\text{mm}$.

规格说明 Specification

项目 Item	参数 Item
Active Array Size	16k/8k
Pixel Size	$3.5\mu\text{m}/7\mu\text{m}$
Line Rate	290KHz
Output Format	RAW8/10/12
Read Noise	$2e^-$
Full Well Capacity	$24k/8k e^-$
Dynamic Range	$>70\text{dB}$
SNR Max	$>43\text{dB}$
Dark Current	$<200e^-/s@60^\circ\text{C}$
TDI Stage	32
Package	COB

应用场景 Application Scenarios

- 色选机
Color Sorter
- 缺陷检测
ITS
- 高精度测量
Motion Monitoring

产品特性 Product Feature

- 高速数据传输
High Speed data transmission
- BSI工艺
BSI Process



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