

# ISG1321

## GLOBAL SHUTTER CMOS IMAGE SENSOR



### 产品介绍 CHIEF APPLICATION

The ISG1321 is a 1.3M pixel global shutter CMOS image sensor based on the BSI process. Its effective pixel array is 1280 columns X1080 rows, the total pixel is 1.3M, supports 10/12bit sampling, and supports near-infrared enhancement. Compatible with both DVP and MIPI interfaces. The chip is mainly used in machine vision, intelligent robot, logistics code reading, industrial inspection and so on.

### 规格说明 Specification

项目   Item	参数   Item
Active Array Size	1280(H)*1080(V)
Pixel Size	2.70um x 2.70um
Lens Size	1/4 Inch
TEMP Range Operation	-40~105℃
Output Format	RAW12/RAW10
Sensitivity	3.5V/Lux.s
Full Well Capacity	9.5K e <sup>-</sup>
Dynamic Range	66.5dB/100dB@HDR Mode
SNR Max	39.8dB
QE	60%@850nm 30%@940nm
PLS	-96dB

### 应用场景 Application Scenarios

- 机器视觉  
Machine Vision
- 智能机器人  
Intelligence Robot
- 物流读码  
Logistics Code reading
- 工业检测  
Industrial Inspection

### 产品特性 Product Feature

- 近红外增强  
High-speed Image Processing
- 图像预处理  
Image Preprocessing
- 低功耗  
Low Power consumption
- 高帧率  
High Frame rate



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