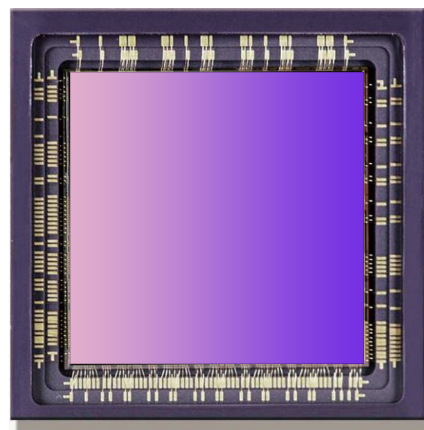


# ISG4006A

## GLOBAL SHUTTER CMOS IMAGE SENSOR



### 产品介绍 CHIEF APPLICATION

ISG4006A is a 1-inch 4-megapixel global shutter CMOS image sensor chip. Its effective pixel array is 2048×2048, supporting high-frame-rate applications under high-definition conditions. ISG4006A features high resolution, high frame rate, high definition, an on-chip temperature sensor, and global shutter exposure mode.

### 规格说明 Specification

项目   Item	参数   Parameters
Active Array Size	2048(H)*2048(V)
Pixel Size	5.5 um x 5.5 um
Shutter	Global Shutter
Optical Format	1inch
Chip Size	13.5mm*13.5mm
Input Clock Frequency	5-48MHz
Frame Rate	37fps@12bit, 180fps@10bit
Package	uPGA-95/CLCC-92
Supply Voltage	1.2V/2.5V/3.3V
Sensitivity	7.24V/lux.s
Conversion Gain	65uV/e <sup>-</sup> (10bit mode)
SNR	41.4dB
Dynamic Range	60 dB
Read Noise	10e <sup>-</sup>
QE	66.7%540nm (RGB) 83.1%540nm (Mono)
Power Consumption	<600mW @16ch
Operating Junction Temperature	-40~85°C

### 应用场景 Application Scenarios

- 机器视觉 Machine Vision
- 智能交通 ITS
- 运动监测 Motion Monitoring
- 高速检测 High Speed detection

### 产品特性 Product Feature

- 高帧率 High Frame rate
- 低功耗 Low Power consumption
- 内置温度传感器 Built-in Temperature sensor
- 编程控制 Programming Control



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